

DEPARTMENT OF BENGALI

BENG (H&G) SEM-II 2018 (Jan-July)

Name of the Faculty	Course	Subject	Class
KR	CC-3		
	CC-4	Alankar	12
	GE	Linguistics	16
	AECC	Reporting & Letter Writing	04
	LCC	Meghnadbadh Kabya	16
	GCC	Linguistics	16
TT	CC-3	Baisnab Padabali	20
	CC-4		
	GE		
	AECC	Essay	04
	LCC		
	GCC		
CB	CC-3	Chhanda	20
	CC-4	Proof Correction	08
	GE		
	AECC	Poetry	04
	LCC	Novel (Padma Nadir Majhi)	12
	GCC		
AC	CC-3		
	CC-4	Shaktopadabali	20
	GE		
	AECC	Shorts Story	18
	LCC	Shaktopadabali	20
	GCC		
RH	CC-3	Ramayan	18
	CC-4	AnnadaMangal	18
	GE	History of Bengali Literature	22
	AECC	Parivasa	04
	LCC		
	GCC	History of Bengali literature	22

BENG (H&G) SEM-III 2018-19 (July - Dec)

Name of the Faculty	Course	Subject	Class
KR	CC-5		
	CC-6	Srikanta (Novel)	16
	CC-7		
	GE	Alankar	16
	SEC-1	Part -1	04
	GCC		
	GSEC	Part 1	04
TT	CC-5	Short Story of Tagore	18
	CC-6	Ghare Baire Novel	20
	CC-7	Amar Jiban	18
	GE	Baishnab Padabali	16
	SEC-1		
	GCC	Jiban Smriti	12
	GSEC		
CB	CC-5	Pree 40 Short Story	16
	CC-6	Rajsinha Novel	18
	CC-7		
	GE	Chhanda	16
	SEC-1	Part II & Part III	04
	GCC	Palamou	08
	GSEC	Part II & Part III	04
AC	CC-5	Post of 40 Shorts Story	16
	CC-6		
	CC-7	Part-III/Kamala Kanter Daptar	16
	GE		
	SEC-1	Part 1	04
	GCC		
	GSEC	Part 1	04
RH	CC-5	Part_1/Form of Literature	18
	CC-6		
	CC-7	Part – 1 /Form of Literature	18
	GE	Part – 1/History of Bengali Literature	18
	SEC-1		
	GCC	Part -1/Form of Literature	18
	GSEC		

BENG (H&G) SEM-IV 2018 (Jan-July)

Name of the Faculty	Course	Subject	Class
KR	CC-8		
	CC-9	Birangana	14
	CC10	Sanchita	12
	GE	Linguistics	10
	SEC2		
	LCC-T-2		
	GCC-T-4	Dakghar	12
	GSEC-2		
TT	CC-8	Sahityer Pathe	16
	CC-9		
	CC10	Sanchayita	12
	GE		
	SEC2	Part I	04
	LCC-T-2	Poetry	06
	GCC-T-4		
	GSEC2	Part I	04
CB	CC-8	Essay	16
	CC-9		
	CC10	Poetry	12
	GE		
	SEC-2		
	LCC-T-2	Short Story	12
	GCC-T-4	Essay	12
	GSEC-2		
AC	CC-8	Sahitya Samalochana	16
	CC-9	Kabya Jigasa, Jatindranath	14,08
	CC10		
	GE		
	SEC-2		
	LCC-T-2	Muktadhara/ Drama	12
	GCC-T-4		
	GSEC-2		
RH	CC-8		
	CC-9	Form of Literature	16
	CC10		
	GE	History of Bengali Literature	16
	SEC-2		
	LCC-T-2		

	GCC-T-4	Novel / Krishnakanter will	14
	GSEC		

BENG (H&G) SEM-V 2018-2021

Name of the Faculty	Course	Subject	Class
KR	CC-11	Hansuli Banker Upakatha / Novel	14
	CC-12	Sadhabar Ekadashi / Drama	12
	DSE-1		
	DSE-2		
	GE	Sadhabar Ekadashi/Drama	12
	SEC-3	Part-I, Part-II, Part-III, Folk Song & Folk Literature	22
TT	CC11		
	CC-12		
	DSE-1	Part-I / Part-II, Sahitya Tattwa	16
	DSE-2	Literature of Bangladesh/ Part-I/ Poetry	18
	GE		
	SEC-3		
CB	CC-11	Mayamridanga/ Novel	16
	CC-12		
	DSE-1	Essay/Part III	14
	DSE-2	Literature of Bangladesh/ Essay/ Drama	10
	GE		
	SEC-3		
AC	CC-11		
	CC-12	Achalayatan	12
	DSE-1	Essay/ Part III	14
	DSE-2	Literature of Bangladesh/ Part III/ Shorts Story	16
	GE-1	Achalayatan/ Drama	12
	SEC-3		
RH	CC-11	Form of Literature/ Drama	10
	CC-12	Ichhamati / Novel	12
	DSE-1		
	DSE-2		
	GE-1	Form of Literature/ Drama, Part I/ Part II	16
	SEC-3		

BENG (H&G) SEM-VI 2018-2021

Name of the Faculty	Course	Subject	Class
KR	CC-13		
	CC-14	Folk Literature	16
	DSE3	Folk Literature	16
	DSE4		
	GE2		
	DSE2	Folk Literature	16
	SEC4		
TT	CC-13		
	CC-14		
	DSE3	Satyajit Roy Short Story/ Padipisi Bomkesh	18
	DSE4		
	GE2		
	DSE2	Roy Story/ Padipisi , Bomkesh	18
	SEC4		
CB	CC-13	Chand Baniker Pala/ Drama	16
	CC-14	History of English Literature	18
	DSE3		
	DSE4	Moyla Anchal/ Novel	16
	GE2	Chand Baniker Pala/ Drama	16
	DSE2		
	SEC4	Proof Correction	08
AC	CC-13	Pagla Ghora/ Drama	16
	CC-14		
	DSE3	Abol Tabol	12
	DSE4	Chop Adalat Chalche	16
	GE2	Pagla Ghora / Drama	14
	DSE2	Aboltabol	12
	SEC4		
RH	CC-13	Karagar/ Drama	16
	CC-14	History of Sanskrit Literature	16
	DSE3		
	DSE4		
	GE2	Karagar/ Drama	16

	DSE2		
	SEC4	Essay Writing	04

BENG (H&G) SEM-I 2021-22

Name of the Faculty	Course	Subject	Class
KR	CC-1	History of Bengali Literature	14
	CC-2		
	GE	Alankar	08
	AECC		
	GCC-T-1	Alankar	08
	GAECC	Unit I	04
TT	CC-1		
	CC-2	Linguistics	08
	GE	History of Bengali Literature	10
	AECC		
	GCC	Baishnab Padabali	14
	GAECC	Unit 2/C	04
CB	CC-1	Linguistics	08
	CC-2	History of Bengali Literature	10
	GE	Chhanda	
	AECC		
	GCC	Chhanda	12
	GAECC	Poetry	08
AC	CC-1	Linguistics	08
	CC-2	Linguistics	08
	GE		
	AECC		
	GCC T-1	History of Bengali Literature	10
	GAECC	Shorts Stories	12
RH	CC-1	History of Bengali Literature	10
	CC-2	History of Bengali Literature	10
	GE	History of Bengali Literature	10
	AECC		

	GCC		
	GAECC	Unit 2/b	04

BENG (H&G) SEM-II 2021-2022

Name of the Faculty	Course	Subject	Class
KR	CC-3		
	CC-4	Alankar	08
	GE-T-2		
	H/AECC-T-1	Unit-1	04
	G/LCC-T-1	Meghnadbadh Kabya	12
	GCC-T-2	Linguistics	10
TT	CC-3	Baisnab Padabali	12
	CC-4		
	GE-T-2	History of Bengali Literature	10
	H/AECC-T-1	Unit-2/b. c	04
	G/LCC-T-1		
	GCC-T-2		
CB	CC-3	Chhanda	12
	CC-4		
	GE-T-2	History of Bengali Literature	10
	H/AECC-T-1	Poetry	08
	G/LCC-T-1		
	GCC-T-2	History of Benagli Literature	10
AC	CC-3		
	CC-4	Shaktopadabali	12
	GE-T-2	Linguistics	12
	H/AECC-T-1	Shorts Story	10
	G/LCC-T-1	Shaktopadabali	12
	GCC-T-2	Linguistics	10
RH	CC-3	Ramayan	14
	CC-4	AnnadaMangal	14
	GE-T-2		
	H/AECC-T-1	Unit-2/a	10
	G/LCC-T-1	Polly Samaj/ Novel	12
	GCC-T-2	History of Bengali literature	10

BENG (H&G) SEM-III 2021-2022

Name of the Faculty	Course	Subject	Class
KR	CC-5		
	CC-6	Unit -III Srikanta (Novel)	12
	CC-7		
	H/GE	History of Bengali Literature, Alankar	12,08
	SEC-T-1		
	GCC-T-3		
	GSEC-T-1		
TT	CC-5	Short Story of Tagore	12
	CC-6	Ghare Baire Novel	14
	CC-7	Unit -II ,Amar Jiban	12
	H/GE		
	SEC-T-1	Unit -IV	04
	GCC-T-3	Unit -II Jiban Smriti	12
	GSEC-T-1		
CB	CC-5	Pree 40 Short Story	12
	CC-6	Krishnakanter will Novel	14
	CC-7		
	H/GE	Chhanda	12
	SEC-T-1	Unit- III	04
	GCC-T-3		
	GSEC-T-1	Unit – I , Spelling, Proof Correction	12
AC	CC-5	Post 40 Shorts Story	12
	CC-6		
	CC-7	Unit – III/ Kamala Kanter Daptar	14
	H/GE	Baishnab Padabali , History of Bengali Literature	14, 12
	SEC-T-1	Unit - II	06
	GCC-T-3	Unit – III/ Palamou	10
	GSEC-T-	Unit- IV	04
RH	CC-5	Unit-1/a,b/ Form of Literature	06,10
	CC-6		

	CC-7	Form of Literature / Unit-1	10,04
	H/GE		
	SEC-T-1		
	GCC-T-3	Unit-1/Form of Literature	10
	GSEC-T-1	Unit-3	04

BENG (H&G) SEM-I 2018

Name of the Faculty	Course	Subject	Class
KR	CC-1	History of Bengali Literature	12
	CC-2	Linguistics	08
	GE		
	GCC	History of Bengali Literature	12
	AECC	Unit II/C	04
TT	CC-1	History of Bengali Literature	12
	CC-2	Linguistics	08
	GE	Baishnab Padabali	12
	GCC	Baishnab Padabali	12
	AECC	Unit II/b	04
CB	CC-1	Linguistics	08
	CC-2	History of Bengali literature	12
	GE	Chhanda	12
	GCC	Chhanda	12
	AECC	Poetry	08
AC	CC-1	History of Bengali Literature	12
	CC-2	Linguistics	10
	GE	History of Bengali Literature	12
	GCC	History of Bengali Literature	12
	AECC	Short Stories	10
	CC-1	Linguistics	08

RH	CC-2	History of Bengali Literature	12
	GE	History of Bengali Literature	12
	GCC		
	AECC	Unit 1/	04

Department of Botany
Distribution of syllabus into module (For Hons.)
Academic Session: 2017-2018
Duration: July to October

Class	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks(if any)	
Part I	I	Algae 1,2 3,4	SC SDS		
	I	Fungi 1 2,3.1,3.2,3.3	SDS DB		
	I	Bryophyte 1,2,5 3.1,3.2,3.3	SDS SC		
	II	Virus 1,2,3	KS		
	II	Bacteria 1,2 3,4 6	SDS KS SC		
	II	Lichen	SC		
	II	Applied Microbiology 1,2,5	SC		
	II	Plant Pathology 1,2,3	DB		
	III prac	Algae A	KS		
	III prac	Fungi A	DB		
	III prac	Lichen	SC		
	III prac	Bryophyte A,B except <i>Funaria</i>	SDS		
	III prac	Microbiology 1,2	SC		
	Part II	IV	Pteridophyte 1,2.1,2.2 2.3,3	SDS SC	
		IV	Palaeobotany & Palynology 1,2,4	KS	
		Progymnosperm & Gymnosperm 2,3	KS		
V		Systematics of Angiosperm 1,2,3,4	TG		
V		Angiosperm Morphology & Embryology 1,2,3 5	TG SC		
VI prac		Pteridophyta	SDS		
		Gymnosperm	SC		
		Palaeobotany & Palynology	KS		
		Angiosperm	TG		
Part III		VII	Plant physiology 1.1,1.2,1.3 1.4,3,5	RKS SDS	
		Plant biochemistry 1.1,1.2,1.3, 1.4,1.5	RKS SC		
	VIII	Genetic and Molecular Genetics 1,2,3 4,5	SDS SC		
		Plant biotechnology 1,3,4	KS		
	IX	Anatomy 1,2,4 3,5	SDS SC		

Class	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks(if any)
		Plant Breeding 1,2	SC	
		Biometry	SDS	
		Ecology 1,2,3 4,5	KS DB	
	X (PRAC.)	Plant Physiology 1,2,3,4,5	SDS	
		Plant Biochemistry Detection 1,2,3	KS	
		Anatomy	DB	
	XI (PRAC.)	Cytogenetics 1,2 4	SDS SC	
		Biometry	SDS	
		Pharmacognocny	KS	

Department of Botany
Distribution of syllabus into module (For Hons.)
Academic Session: 2017-2018
Duration: November to Rest

Class	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks(if any)	
Part I	I	Algae 5-10	KS		
	I	Fungi 3.4,3.5,3.6,3.7, 4-7	DB		
	I	Bryophyte 3.4,3.5,3.6 4,5	SDS		
	II	Virus 4-6	KS		
	II	Bacteria 5-7	KS		
	II	Applied Microbiology 3 4	SC SDS		
	II	Plant Pathology 8 4,5 6,7	DB SDS SC		
	III prac	Algae B	KS		
	III prac	Fungi B-E	DB		
	III prac	Bryophyte <i>Funaria</i> & C	SDS		
	III prac	Microbiology 3,4	SC		
	Part II	IV	Pteridophyte 4,5	SDS	
			Palaeobotany & Palynology 3,5 6	SDS SC	
		Progymnosperm & Gymnosperm 1,5,6 4	SDS SC		
V		Systematics of Angiosperm 7 5,6	TG SDS		
V		Angiosperm Morphology & Embryology 4 6	TG SC		
VI prac		Pteridophyta	SDS		
		Gymnosperm	SC		
		Palaeobotany & Palynology	KS		
		Angiosperm	TG		
Part III		VII	Plant physiology 2,7 4,8 6	RKS SC SDS	
		Plant biochemistry 1.6	SDS		
	VIII	Genetic and Molecular Genetics 8,10,11 7 6	SDS SC KS		
		Plant biotechnology 2	SC		
	IX	Anatomy 7 6 8	SC DB KS		
		Plant Breeding 3	SC		

Class	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks(if any)
		Biometry	SDS	
		Ecology 7,8,10 6,9	SC DB	
	X (PRAC.)	Plant Physiology 6 7,8,9	SDS KS	
		Plant Biochemistry Estimation	SC	
		Anatomy	DB	
	XI (PRAC.)	Cytogenetics 3 4 5	SDS SC KS	
		Biometry	SDS	
		Pharmacognocny	KS	

Department of Botany
Distribution of syllabus into module (For General.)
Academic Session: 2017-2018
Duration: July to October

Class	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks(if any)
Part I	I Grp A	1. Domains of life 2. Virus 2.1, 2.2 3. Bacteria 3.1-3.3 4. Algae 4.1-4.3 5. Fungi 5.1, 5.2 6. Bryophyta 6.1, 6.2 7. Pteridophyta 7.1, 7.2	SDS SC SC SC SC SDS RKS	
	I Grp B	1. Gymnosperm 1.1, 1.2 2. Palaeobotany 2.1-2.3 3. Morphology of Angiosperm 3.1, 3.2 4. Taxonomy of angiosperm 4.1-4.4 5. Ecology 5.1-5.3	RKS RKS SDS SDS RKS	
Part II	II GrpA	1. Cytogenetics & molecular genetics 1.1-1.4	SC	
	II Grp B	2. Plant physiology and biochemistry 2.1-2.6	SDS	
	II GrpC	1. Anatomy 1.1-1.3 2. Reproduction and embryology 2.1-2.4	SDS SC	
	III Prac	1-6	KS, DB	
Part III	IV	Biotechnology, plant pathology and plant breeding 1-3 4-5	SDS RKS	
	V Prac	1,2,3	RKS	

Department of Botany
Distribution of syllabus into module (For General.)
Academic Session: 2017-2018
Duration: November to Rest

Class	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks(if any)
Part I	I Grp A	2.Virus 2.3, 2.4 3.Bacteria 3.4-3.6 4.Algae 4.4, 4.5 5.Fungi 5.3, 5.4 6.Bryophyta 6.3 7.Pteridophyta 7.3	SC SC SC SC SDS RKS	
	I Grp B	1. Gymnosperm 1.3 2.Palaeobotany 2.4 3.Morphology of Angiosperm 3.3, 3.4 4.Taxonomy of angiosperm 4.5 5.Ecology 5.4	RKS RKS SDS SDS RKS	
Part II	II GrpA	1.Cytogenetics & molecular genetics 1.5-1.10	SDS	
	II Grp B	2.Plant physiology and biochemistry 2.7-2.11	SC	
	II GrpC	1.Anatomy 1.4 2.Reproduction and embryology 2.5-2.7	SDS SC	
	III Prac	1-6	KS, DB	
Part III	IV	Biotechnology, plant pathology and plant breeding 6 7,8 9	RKS SC SDS	
	V Prac	4-6	RKS	

Department of Botany
Distribution of syllabus into module (For Hons.)
Academic Session: 2018-2019

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
Semester I (July to December)	CC-T-01	1 Biomolecules	KS	
		2 Bioenergetics	SC	
		3 Enzyme	SC	
		4 The cell	SDS	
		5 Cell wall and plasma membrane	SDS	
		6 Cell organelles	SDS	
		7 Cell division	KS	
	CC-P-01	1,4,5	SC	
		2,3,8,9	KS	
		6,7	SDS	
	CC-T-02	1 Morphology of leaves	DB	
		2 Morphology of Inflorescence	DB	
		3 Morphology of flower	DB	
		4 Morphology of Fruits and Seeds	SC	
		5 Cell wall	SC	
		6 Tissue	SDS	
		7 Apical meristem	SDS	
		8 Primary plant body	SC	
		9 Secondary plant body	KS	
		10 Adaptive and Protective Systems	KS	
		11 Scope of plant anatomy	KS	
CC-P-02	Morphology	DB		
	2,3	KS		
	4,5	DB		
	6	SDS		
Semester II (January to June)	CC-T-03	UNIT 1. Introduction to microbial world....	SDS	
		UNIT 2. Viruses	KS	
		UNIT 3. Bacteria	SC	
		UNIT 4. Introduction to Algae	SDS	
		UNIT 5. Cyanophyta and Prochlorophyta	KS	
		UNIT 6. Rhodophyta Chlorophyta Charophyta	SC	
		UNIT 7. Xanthophyta Phaeophyta	KS	
	CC-P-03	1,2	KS	
		3,4	SC	
		5,6	SDS	
		Phycology	SDS, SC, KS	

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
	CC-T-04	1 Introduction to true fungi	SDS	
		2 Chitridiomycota & zygomycota	KS	
		3 Ascomycota	SC	
		4 Basidiomycota	KS	
		5 Allied Fungi	SDS	
		6 Oomycota	DB	
		7 Symbiotic association	SC	
		8 Applied mycology	DB	
		9 Plant pathology	DB	
	CC-P-04	Fungi 1	DB	
		2	KS	
		3	SC	
		Plant pathology 1a, 1b	SDS	
		1c, 2	DB	
Part II (July to October)	IV	Pteridophyte 1,2.1,2.2 2.3,3	SDS SC	
	IV	Palaeobotany & Palynology 1,2,4	KS	
		Progymnosperm & Gymnosperm 2,3	KS	
	V	Systematics of Angiosperm 1,2,3,4	New	
	V	Angiosperm Morphology & Embryology 1,2,3	New SC	
		5		
	VI prac	Pteridophyta	SDS	
		Gymnosperm	SC	
		Palaeobotany & Palynology	KS	
		Angiosperm	New	
Part II (November to Rest)	IV	Pteridophyte 4,5	SDS	
		Palaeobotany & Palynology 3,5 6	SDS SC	
		Progymnosperm & Gymnosperm 1,5,6 4	SDS SC	
	V	Systematics of Angiosperm 7 5,6	New SDS	
	V	Angiosperm Morphology & Embryology 4 6	New SC	
	VI prac	Pteridophyta	SDS	
		Gymnosperm	SC	
		Palaeobotany & Palynology	KS	
		Angiosperm	New	
Part III (July to October)	VII	Plant physiology 1.1,1.2,1.3 1.4,3,5	RKS SDS	
		Plant biochemistry 1.1,1.2,1.3, 1.4,1.5	RKS SC	
	VIII	Genetic and Molecular Genetics 1,2,3 4,5	SDS SC	

		Plant biotechnology 1,3,4	KS	
	IX	Anatomy 1,2,4 3,5	SDS SC	
		Plant Breeding 1,2	SC	
		Biometry	SDS	
		Ecology 1,2,3 4,5	KS DB	
	X (PRAC.)	Plant Physiology 1,2,3,4,5	SDS	
		Plant Biochemistry Detection 1,2,3	KS	
		Anatomy	DB	
	XI (PRAC.)	Cytogenetics 1,2 4	SDS SC	
		Biometry	SDS	
		Pharmacognocny	KS	
Part III (November to Rest)	VII	Plant physiology 2,7 4,8 6	RKS SC SDS	
		Plant biochemistry 1.6	SDS	
	VIII	Genetic and Molecular Genetics 8,10,11 7 6	SDS SC KS	
		Plant biotechnology 2	SC	
	IX	Anatomy 7 6 8	SC DB KS	
		Plant Breeding 3	SC	
		Biometry	SDS	
		Ecology 7,8,10 6,9	SC DB	
	X (PRAC.)	Plant Physiology 6 7,8,9	SDS KS	
		Plant Biochemistry Estimation	SC	
		Anatomy	DB	
	XI (PRAC.)	Cytogenetics 3 4 5	SDS SC KS	
		Biometry	SDS	
		Pharmacognocny	KS	

Department of Botany
Distribution of syllabus into module
Academic Session: 2018-2019

Class	Paper	Topic No.(according to syllabus)	Topic allotted	Remarks
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(Duration)			to teachers	(if any)
Semester I (GE) (July to December)	GE-T-01	1. Microbes	RKS	
		2. Algae	DB	
		3. Fungi	DB	
		4. Introduction to archaegoniates	SC	
		5. Bryophyte	SC	
		6. Pteridophytes	RKS	
		7. Gymnosperm	RKS	
	GE-P-01	1-3	KS	
		5,6,8,9	DB	
		4,7,10,11-15	SC	
Semester II (GE) (January to June)	GE-T-02	1. Introduction	RKS	
		2. Ecological factors	RKS	
		3. Plant communities	SC	
		4. Eco system	DB	
		5. Phyto geography	SC	
		6. Conservation of biodiversity	RKS	
		7. Plant morphology	DB	
		8. Introduction to plant taxonomy	SC	
		9. Identification	DB	
		10. Taxonomic hierachy	RKS	
		11. Botanical nomenclature	RKS	
		12. Classification	RKS	
		13. Neumerical taxonomy and cladistics	RKS	
		14. Taxonomic families	RKS	
	GE-P-02	1-4	SC	
		5,6	DB	
		7-9	KS	
Semester I (CC) (July to December)	CC-T-01	1.Microbes	RKS	
		2.Algae	DB	
		3.Fungi	DB	
		4.Introduction to archaegoniates	SC	
		5.Bryophyte	SC	
		6.Pteridophytes	RKS	
		7.Gymnosperm	RKS	
	CC-P-01	1-3	KS	
		5,6,8,9	DB	
Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
Semester I (CC) (July to December)	CC-P-01	4,7,10-15	RKS	
Semester II (CC)	GE-T-02	1.Introduction	DB/SC	

(January to June)				
		2. Ecological factors	SC	
		3.Plant communities	DB	
		4.Eco system	SC	
		5.Phyto geography	DB/SC/New	
		6.Conservation of biodiversity	DB	
		7.Plant morphology	SC	
		8.Introduction to plant taxonomy	DB	
		9.Identification	DB/SC/New	
		10.Taxonomic hierachy	DB/SC/New	
		11.Botanical nomenclature	DB/SC/New	
		12.Classification	DB/SC/New	
		13.Neumerical taxonomy and cladistics	DB/SC/New	
		14.Taxonomic families	DB/SC/New	
	GE-P-02	1-4	RKS	
		5,6	DB	
		7-9	KS	
Part II (July to October)	II GrpA	3. Cytogenetics & molecular genetics 1.1-1.4	SC	
	II Grp B	4. Plant physiology and biochemistry 2.1-2.6	SC	
	II GrpC	3. Anatomy 1.1-1.3 4. Reproduction and embryology 2.1-2.4	RKS RKS	
	III Prac	1-6	DB, SC, RKS	
Part II (November to Rest)	II GrpA	1.Cytogenetics & molecular genetics 1.5-1.10	SC	
	II Grp B	2.Plant physiology and biochemistry 2.7-2.11	SC	
	II GrpC	1.Anatomy 1.4 2.Reproduction and embryology 2.5-2.7	RKS SC	
	III Prac	1-6	SC, DB, RKS	
Part III (July to October)	IV	Biotechnology, plant pathology and plant breeding 1-3 4-5	SDS RKS	
	V Prac	1,2,3	RKS	
Part III (November to Rest)	IV	Biotechnology, plant pathology and plant breeding 6 7,8 9	RKS SC SDS	
	V Prac	4-6	RKS	

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Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
Semester I (July to December)	CC-T-01	3 Biomolecules	KS	
		4 Bioenergetics	SC	
		3 Enzyme	SC	
		4 The cell	SDS	
		5 Cell wall and plasma membrane	SDS	
		6 Cell organelles	SDS	
		7 Cell division	KS	
	CC-P-01	1,4,5	SC	
		2,3,8,9	KS	
		6,7	SDS	
	CC-T-02	1 Morphology of leaves	DB	
2 Morphology of Inflorescence		DB		
3 Morphology of flower		DB		
4 Morphology of Fruits and Seeds		SC		
5 Cell wall		SC		
6 Tissue		SDS		
7 Apical meristem		SDS		
8 Primary plant body		SC		
9 Secondary plant body		KS		
10 Adaptive and Protective Systems		KS		
11 Scope of plant anatomy		KS		
CC-P-02	Morphology	DB		
	2,3	KS		
	4,5	DB		
	6	SDS		
Semester III (July to December)	CC-T-05	1. General account of Bryophytes	SDS	
		2. Classification of Bryophytes	SDS	
		3. Type Studies of Bryophyte	SC	
		4. Origin and Evolution of Bryophytes	SDS	
		5. Importance of Bryophytes	SC	
		6. General Account of Pteridophytes	RKS	
		7. Classification of Pteridophytes	SC	
		8. Type Studies of Pteridophytes	SC	
		9. Origin and Evolution	SC	
		10. Importance of Pteridophytes	SC	
CC-P-05	1,2,3,4	SDS		
	5,6,7	KS		

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
		8,9,10,11	SC	
	CC-P-05	12	KS	
	CC-T-06	1. Progymnosperms and General account of Gymnosperms	RKS	
		2. Classification of Gymnosperms	RKS	
		3. Type Studies of Gymnosperms	SC	
		4. Origin and Evolution of Gymnosperms	KS	
		5. Importance of Gymnosperms	SC	
		6. Introduction to Palaeobotany	KS	
		7. Plant fossil & their age determination	RKS	
		8. Study of plant fossil records	KS	
		9. Evolutionary theories, mass extinction and the plant fossil record	KS	
		10. Gondwana land and plant fossil (<i>Glossopteris</i>)	RKS	
	CC-P-06	Gymnosperm: <i>Cycas, Pinus, Gnetum, Ephedra</i>	SC, KS	
		Palaeobotany	KS, RKS	
	CC-T-07	1. Introduction	SDS	
		2. Reproductive development	SC	
		3. Anther and pollen biology	SC	
		4. Ovule	SC	
		5. Pollination and fertilization	SDS	
		6. Self incompatibility	SDS	
		7. Embryo, Endosperm and Seed	SDS	
		8. Polyembryony and Apomixis	SC	
	CC-P-07	1,2,3,4	SC	
		5,6,7	SDS	
	SEC-T-01-B	1. Plant diversity and its scope	SC	
		2. Loss and Management of Biodiversity	SC	
		3. Conservation of Biodiversity	DB	
		4. Role of plants in relation to Human Welfare	DB	
Semester II (January to June)				
	CC-T-03	UNIT 1. Introduction to microbial world....	SDS	
		UNIT 2. Viruses	KS	
		UNIT 3. Bacteria	SC	
		UNIT 4. Introduction to Algae	SDS	
		UNIT 5. Cyanophyta and Prochlorophyta	KS	
		UNIT 6. Rhodophyta Chlorophyta Charophyta	SC	
		UNIT 7. Xanthophyta Phaeophyta	KS	
	CC-P-03	1,2	KS	

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
		3,4	SC	
	CC-P-03	5,6	SDS	
		Phycology	SDS, SC, KS	
	CC-T-04	3 Introduction to true fungi	SDS	
		4 Chitridiomycota & zygomycota	KS	
		3 Ascomycota	SC	
		4 Basidiomycota	KS	
		5 Allied Fungi	SDS	
		6 Oomycota	DB	
		7 Symbiotic association	SC	
		8 Applied mycology	DB	
		9 Plant pathology	DB	
	CC-P-04	Fungi 1 2 3	DB KS SC	
		Plant pathology 1a, 1b 1c, 2	SDS DB	
Semester IV (January to June)	CC-T-08	1. Significance of plant systematics	RKS	
		2. Taxonomic hierarchy	SC	
		3. Botanical nomenclature	SC	
		4. Systems of classification	SC	
		5. Biometrics, numerical taxonomy and cladistics	KS	
		6. Phylogeny of Angiosperms	KS	
		7. Diagnostic features, Systematic position (Bentham and Hooker, and Cronquist), Economically important plants (parts used and uses) of the following families	SC, DB	
	CC-P-08	1,2	SC, DB	
		3,4	SC,SDS,KS, DB	
	CC-T-09	1. Introduction	SC	
		2. Soil	SC	
		3. Water	SC	
		4. Light, temperature, wind and fire	SC	
		5. Biotic interactions	SDS	
		6. Population ecology	SDS	
		7. Plant communities	SDS	
		8. Ecosystems	SDS	
		9. Functional aspects of ecosystem	SDS	
		10. Phytogeography	SC	
	CC-P-09	1	SC	
		2,3,4	KS	
		5	SDS	
		6	SC	

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
		7,8,9	SDS,KS,DB,SC	
	CC-10-T	1. Origin of Cultivated Plants	DB	
		2. Cereals	SC	
		3. Legumes	SDS	
		4. Sources of sugars and starches	SC	
		5. Spices and Condiments	SC	
		6. Beverages	SC	
		7. Sources of oils and fats	SDS	
		8. Natural Rubber	DB	
		9. Timber plants	DB	
		10. Fibers	DB	
		11. Pharmacognosy	KS	
		12. Study of following drug plants (Botanical name with family, source, short description, histology, constituents, uses, adulterants)	KS	
	CC-10-P	1,2,3,4	SC	
		5,6,7,8	SDS	
		9,10	KS	
	SEC-T-02 B	1,2	DB,SC	
		3,4	DB, SC	
Part II (July to October)	IV	Pteridophyte 1,2.1,2.2 2.3,3	SDS SC	
	IV	Palaeobotany & Palynology 1,2,4	KS	
		Progymnosperm & Gymnosperm 2,3	KS	
	V	Systematics of Angiosperm 1,2,3,4	New	
	V	Angiosperm Morphology & Embryology 1,2,3 5	New SC	
	VI prac	Pteridophyta	SDS	
		Gymnosperm	SC	
		Palaeobotany & Palynology	KS	
		Angiosperm	New	
Part II (November to Rest)	IV	Pteridophyte 4,5	SDS	
		Palaeobotany & Palynology 3,5 6	SDS SC	
		Progymnosperm & Gymnosperm 1,5,6 4	SDS SC	
	V	Systematics of Angiosperm 7 5,6	New SDS	
	V	Angiosperm Morphology & Embryology 4 6	New SC	
	VI prac	Pteridophyta	SDS	

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
		Gymnosperm	SC	
	VI prac	Palaeobotany & Palynology	KS	
		Angiosperm	New	
Part III (July to October)	VII	Plant physiology 1.1,1.2,1.3 1.4,3,5	RKS SDS	
		Plant biochemistry 1.1,1.2,1.3, 1.4,1.5	RKS SC	
	VIII	Genetic and Molecular Genetics 1,2,3 4,5	SDS SC	
		Plant biotechnology 1,3,4	KS	
	IX	Anatomy 1,2,4 3,5	SDS SC	
		Plant Breeding 1,2	SC	
		Biometry	SDS	
		Ecology 1,2,3 4,5	KS DB	
	X (PRAC.)	Plant Physiology 1,2,3,4,5	SDS	
		Plant Biochemistry Detection 1,2,3	KS	
		Anatomy	DB	
	XI (PRAC.)	Cytogenetics 1,2 4	SDS SC	
		Biometry	SDS	
		Pharmacognocny	KS	
Part III (November to Rest)	VII	Plant physiology 2,7 4,8 6	RKS SC SDS	
		Plant biochemistry 1.6	SDS	
	VIII	Genetic and Molecular Genetics 8,10,11 7 6	SDS SC KS	
		Plant biotechnology 2	SC	
	IX	Anatomy 7 6 8	SC DB KS	
		Plant Breeding 3	SC	
		Biometry	SDS	
		Ecology 7,8,10 6,9	SC DB	
	X (PRAC.)	Plant Physiology 6 7,8,9	SDS KS	
		Plant Biochemistry Estimation	SC	
		Anatomy	DB	
	XI (PRAC.)	Cytogenetics 3 4 5	SDS SC KS	

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
	XI (PRAC.)	Biometry	SDS	
		Pharmacognocny	KS	

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Semester I (GE) (July to December)	GE-T-01	8. Microbes	RKS			
		9. Algae	DB			
		10. Fungi	DB			
		11. Introduction to archaegoniates	SC			
		12. Bryophyte	SC			
		13. Pteridophytes	RKS			
		14. Gymnosperm	RKS			
		GE-P-01	1-3	KS		
			5,6,8,9	DB		
			4,7,10,11-15	SC		
		Semester III (GE) (July to December)	GE-T-01	15. Microbes	KS	
				16. Algae	DB	
				17. Fungi	DB	
				18. Introduction to archaegoniates	SC	
19. Bryophyte	SC					
20. Pteridophytes	SDS					
21. Gymnosperm	RKS					
GE-P-01	1-3			SC		
	5,6,8,9			KS		
	4,7,10,11-15			SC		
Semester II (GE) (January to June)	GE-T-02	15. Introduction	RKS			
		16. Ecological factors	RKS			
		17. Plant communities	SC			
		18. Eco system	DB			
		19. Phyto geography	SC			
		20. Conservation of biodiversity	RKS			
		21. Plant morphology	DB			
		22. Introduction to plant taxonomy	SC			
		23. Identification	DB			

		24. Taxonomic hierarchy	RKS	
		25. Botanical nomenclature	RKS	
		26. Classification	RKS	
		27. Numerical taxonomy and cladistics	RKS	
		28. Taxonomic families	RKS	
	GE-P-02	1-4	SC	
		5,6	DB	
		7-9	KS	
Semester IV (GE) (January to June)	GE-T-02	29. Introduction	KS	
		30. Ecological factors	SC	
		31. Plant communities	RKS	
		32. Eco system	SDS	
		33. Phyto geography	SC	
		34. Conservation of biodiversity	DB	
		35. Plant morphology	SC	
		36. Introduction to plant taxonomy	SC	
		37. Identification	DB, KS	
		38. Taxonomic hierarchy	RKS	
		39. Botanical nomenclature	KS	
		40. Classification	RKS	
		41. Numerical taxonomy and cladistics	RKS	
		42. Taxonomic families	RKS	
	GE-P-02	1-4	SC, RKS	
		5,6	DB	
		7-9	KS, SC	
Semester I (CC) (July to December)	CC-T-01	1. Microbes	RKS	
		2. Algae	DB	
		3. Fungi	DB	
		4. Introduction to archaeogonates	SC	
		5. Bryophyte	SC	
		6. Pteridophytes	RKS	
		7. Gymnosperm	RKS	
	CC-P-01	1-3	KS	
		5,6,8,9	DB	
	CC-P-01	4,7,10-15	RKS	
Semester III (CC) (July to December)	CC-T-03	Unit 1: Cell as a unit of life	KS, SDS	
		Unit 2: Cell organelles	SC	
		Unit 3: Cell membrane and Cell wall	SC	
		Unit 4: Cell cycle	KS, SDS	
		Unit 5: Genetic material and protein synthesis	SC, SDS	
		Unit 6: Meristematic tissues, permanent	DB	

		tissues and organs		
		Unit 7: Secondary growth, adaptive and protective systems	DB	
		Unit 8: Structural organization of flower	SC	
		Unit 9: Pollination and fertilization	SC, SDS	
		Unit 10: Embryo and endosperm	SDS, KS	
		Unit 11: Apomixis and polyembryony	KS, DB	
	CC-P-03	1-6	SC, KS	
		7-11	DB	
		12-16	SDS, KS, SC	
Semester II (CC) (January to June)	CC-T-02	1.Introduction	DB/SC	
		2. Ecological factors	SC	
		3.Plant communities	DB	
		4.Eco system	SC	
		5.Phyto geography	DB/SC/New	
		6.Conservation of biodiversity	DB	
		7.Plant morphology	SC	
		8.Introduction to plant taxonomy	DB	
		9.Identification	DB/SC/New	
		10.Taxonomic hierachy	DB/SC/New	
		11.Botanical nomenclature	DB/SC/New	
		12.Classification	DB/SC/New	
		13.Neumerical taxonomy and cladistics	DB/SC/New	
		14.Taxonomic families	DB/SC/New	
	CC-P-02	1-4	RKS	
		5,6	DB	
		7-9	KS	
	SEC-T-01-B	1,3	SC	
		2,4	DB	
Semester IV (CC) (January to June)	CC-T-04	Unit 1: Plant-water relations		
		Unit 2: Mineral nutrition		
		Unit 3: Translocation in phloem.		
		Unit 4: Photosynthesis		
		Unit 5: Respiration		
		Unit 6: Enzymes		
		Unit 7: Nitrogen metabolism		
		Unit 8: Plant growth regulators		
		Unit 9: Plant response to light and temperature		
	CC-P-04	1-6	SDS, KS, SC, DB	
		Demonstration: 1-3	Sc, KS	
	SEC-T-02-B	Unit 1: Introduction	SC, DB	

		Unit 2: Cultivation Technology	DB	
		Unit 3: Storage and nutrition	SC, DB	
		Unit 4: Food Preparation	SC	
Part II (July to October)	II GrpA	5. Cytogenetics & molecular genetics 1.1-1.4	SC	
	II Grp B	6. Plant physiology and biochemistry 2.1-2.6	SC	
	II GrpC	5. Anatomy 1.1-1.3 6. Reproduction and embryology 2.1- 2.4	RKS RKS	
	III Prac	1-6	DB, SC, RKS	
Part II (November to Rest)	II GrpA	1.Cytogenetics & molecular genetics 1.5-1.10	SC	
	II Grp B	2.Plant physiology and biochemistry 2.7-2.11	SC	
	II GrpC	1.Anatomy 1.4 2.Reproduction and embryology 2.5- 2.7	RKS SC	
	III Prac	1-6	SC, DB, RKS	
Part III (July to October)	IV	Biotechnology, plant pathology and plant breeding 1-3 4-5	SDS RKS	
	V Prac	1,2,3	RKS	
Part III (November to Rest)	IV	Biotechnology, plant pathology and plant breeding 6 7,8 9	RKS SC SDS	
	V Prac	4-6	RKS	

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Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
Semester I (July to December)	CC-T-01	5 Biomolecules	KS	
		6 Bioenergetics	SC	
		3 Enzyme	SC	
		4 The cell	SDS	
		5 Cell wall and plasma membrane	SDS	
		6 Cell organelles	SDS	
		7 Cell division	KS	
	CC-P-01	1,4,5	SC	
		2,3,8,9	KS	
		6,7	SDS	
	CC-T-02	1 Morphology of leaves	DB	
2 Morphology of Inflorescence		DB		
3 Morphology of flower		DB		
4 Morphology of Fruits and Seeds		SC		
5 Cell wall		SC		
6 Tissue		SDS		
7 Apical meristem		SDS		
8 Primary plant body		SC		
9 Secondary plant body		KS		
10 Adaptive and Protective Systems		KS		
11 Scope of plant anatomy		KS		
CC-P-02	Morphology	DB		
	2,3	KS		
	4,5	DB		
	6	SDS		
Semester III (July to December)	CC-T-05	1. General account of Bryophytes	SDS	
		2. Classification of Bryophytes	SDS	
		3. Type Studies of Bryophyte	SC	
		4. Origin and Evolution of Bryophytes	SDS	
		5. Importance of Bryophytes	SC	
		6. General Account of Pteridophytes	RKS	
		7. Classification of Pteridophytes	SC	
		8. Type Studies of Pteridophytes	SC	
		9. Origin and Evolution	SC	
		10. Importance of Pteridophytes	SC	
CC-P-05	1,2,3,4	SDS		
	5,6,7	KS		
	8,9,10,11	SC		

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
	CC-P-05	12	KS	
	CC-T-06	1. Progymnosperms and General account of Gymnosperms	RKS	
		2. Classification of Gymnosperms	RKS	
		3. Type Studies of Gymnosperms	SC	
		4. Origin and Evolution of Gymnosperms	KS	
		5. Importance of Gymnosperms	SC	
		6. Introduction to Palaeobotany	KS	
		7. Plant fossil & their age determination	RKS	
		8. Study of plant fossil records	KS	
		9. Evolutionary theories, mass extinction and the plant fossil record	KS	
		10. Gondwana land and plant fossil (<i>Glossopteris</i>)	RKS	
	CC-P-06	Gymnosperm: <i>Cycas, Pinus, Gnetum, Ephedra</i>	SC, KS	
		Palaeobotany	KS, RKS	
	CC-T-07	1. Introduction	SDS	
		2. Reproductive development	SC	
		3. Anther and pollen biology	SC	
		4. Ovule	SC	
		5. Pollination and fertilization	SDS	
		6. Self incompatibility	SDS	
		7. Embryo, Endosperm and Seed	SDS	
		8. Polyembryony and Apomixis	SC	
	CC-P-07	1,2,3,4	SC	
		5,6,7	SDS	
	SEC-T-01-B	1. Plant diversity and its scope	SC	
		2. Loss and Management of Biodiversity	SC	
		3. Conservation of Biodiversity	DB	
		4. Role of plants in relation to Human Welfare	DB	
Semester V (July to December)	CC-T-11	1. Plant-water relations	SDS	
		2. Mineral nutrition	SDS	
		3. Nutrient Uptake	SDS	
		4. Translocation in the phloem	SDS	
		5. Plant growth regulators	SC	
		6. Physiology of flowering	SC	
		7. Phytochrome, crytochromes and phototropins	DB	
		8. Seed dormancy	KS	
	CC-P-11	1,2,3	SDS	
		4,5,6	KS, SC	
	CC-T-12	1. Concept of metabolism	SDS	
		2. Carbon assimilation	SDS	
		3. Carbohydrate metabolism	SDS	
		4. Carbon Oxidation	SC	
Class	Paper	Topic No.(according to syllabus)	Topic allotted	Remarks

(Duration)			to teachers	(if any)
		5. ATP-Synthesis	KS	
		6. Lipid metabolism	KS	
		7. Nitrogen metabolism	SC	
		8. Mechanisms of signal transduction	SDS	
	CC-P-12	Detection: 1,2,3,4	KS	
		Detection: 5,6,7,8,9	SC	
		Demonstration Experiment: 1	KS	
	DSE-T-01-B	1. Scope of microbes in industry and environment.	SC	
		2. Bioreactors/ Fermenters and fermentation processes.	SC	
		3. Microbial production of industrial products	SC	
		4. Microbial enzymes of industrial interest and enzyme immobilization	SDS	
		5. Microbes and quality of environment	SDS	
		6. Microbial flora of water	SDS	
		7. Microbes in agriculture and remediation of contaminated soils	SC	
	DSE-P-01-B	1,2,3,4	SC	
		5,6,7	KS	
Semester II (January to June)				
	CC-T-03	UNIT 1. Introduction to microbial world....	SDS	
		UNIT 2. Viruses	KS	
		UNIT 3. Bacteria	SC	
		UNIT 4. Introduction to Algae	SDS	
		UNIT 5. Cyanophyta and Prochlorophyta	KS	
		UNIT 6. Rhodophyta Chlorophyta Charophyta	SC	
		UNIT 7. Xanthophyta Phaeophyta	KS	
	CC-P-03	1,2	KS	
		3,4	SC	
	CC-P-03	5,6	SDS	
		Phycology	SDS, SC, KS	
	CC-T-04	5 Introduction to true fungi	SDS	
		6 Chitridiomycota & zygomycota	KS	
		3 Ascomycota	SC	
		4 Basidiomycota	KS	
		5 Allied Fungi	SDS	
		6 Oomycota	DB	
		7 Symbiotic association	SC	
		8 Applied mycology	DB	
		9 Plant pathology	DB	
	CC-P-04	Fungi 1 2,3	DB KS, SC	
		Plant pathology 1a, 1b	SDS	

		1c, 2	DB	
Semester IV (January to June)	CC-T-08	1. Significance of plant systematics	RKS	
		2. Taxonomic hierarchy	SC	
		3. Botanical nomenclature	SC	
		4. Systems of classification	SC	
		5. Biometrics, numerical taxonomy and cladistics	KS	
		6. Phylogeny of Angiosperms	KS	
		7. Diagnostic features, Systematic position (Bentham and Hooker, and Cronquist), Economically important plants (parts used and uses) of the following families	SC, DB, AH	
	CC-P-08	1,2	SC, DB, AH	
		3,4	SC,SDS,KS, DB	
	CC-T-09	1. Introduction	SC	
		2. Soil	SC, AH	
		3. Water	SC	
		4. Light, temperature, wind and fire	SC	
		5. Biotic interactions	SDS, AH	
		6. Population ecology	SDS	
		7. Plant communities	SDS, AH	
		8. Ecosystems	SDS	
		9. Functional aspects of ecosystem	SDS	
		10. Phytogeography	SC, AH	
	CC-P-09	1	SC	
		2,3,4	KS, AH	
		5	SDS, AH	
		6	SC	
		7,8,9	SDS,KS,DB,SC	
	CC-10-T	1. Origin of Cultivated Plants	DB	
		2. Cereals	SC, AH	
		3. Legumes	SDS	
		4. Sources of sugars and starches	SC	
		5. Spices and Condiments	SC, AH	
		6. Beverages	SC	
		7. Sources of oils and fats	SDS	
		8. Natural Rubber	DB, AH	
		9. Timber plants	DB	
		10. Fibers	DB	
		11. Pharmacognosy	KS	
		12. Study of following drug plants (Botanical name with family, source, short description, histology, constituents, uses, adulterants)	KS, AH	
	CC-10-P	1,2,3,4	SC	
Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
		5,6,7,8	SDS	

		9,10	KS, AH	
	SEC-T-02 B	1,2	DB,SC	
		3,4	DB, SC, AH	
Semester VI (January to June)	CC-T-13	1: Mendelian genetics and its extension	SC, AH	
		2: Extrachromosomal inheritance	SDS, SC	
		3: Linkage, crossing over and chromosome mapping	SC	
		4: Chromosome and nucleic acids	AH	
		5: Variation in chromosome number and structure	SC, SDS	
		6: Fine structure of gene	SDS, AH	
		7: Gene mutations	SC	
		8: Central dogma and genetic code	AH	
		9: Transcription	AH	
		10: Translation	SDS	
		11. Population genetics	AH	
	CC-P-13	1, 2, 3	KS, SC	
		4, 5	SC, AH	
		6,7	SDS, KS	
	CC-T-14	1: Plant tissue culture	SC	
		2: Recombinant DNA technology	AH	
		3: Gene cloning	SC	
		4: Methods of gene transfer	AH	
		5: Applications of biotechnology	AH, SDS	
	CC-P-14	1,2	SC	
		3,4	SDS	
		5	AH, SDS	
	DSE-T-3A	1: Natural resources	SC	
		2: Sustainable utilization	SC	
		3: Land	SC	
		4: Water	SC	
		5: Biological Resources	AH	
		6: Forests	AH	
		7: Energy	SC	
		8: Contemporary practices in resource management	AH	
		9: National and international efforts in resource management and conservation	AH	
	DSE-P-3A	1, 2, 3	SDS, KS, SC, AH, DB	
		4, 5		
	DSE-T-4B	1: Basic concepts of research	AH	
Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
		2: General laboratory practices	AH	
		3: Data collection and documentation of	AH	

		observations		
		4: Overview of Biological Problems	SDS, SC	
		5: Methods to study plant cell/ tissue structure	KS, DB	
		6: Plant microtechniques	SC, AH	
		7: The art of scientific writing and its presentation	KS, SDS	
	DSE-P-4B	1, 2	SC, AH	
		3, 4	SDS, KS, DB	

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Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)	
Semester I (GE) (July to December)	GE-T-01	22. Microbes	RKS		
		23. Algae	DB		
		24. Fungi	DB		
		25. Introduction to archaegoniates	SC		
		26. Bryophyte	SC		
		27. Pteridophytes	RKS		
		28. Gymnosperm	RKS		
		GE-P-01	1-3	KS	
			5,6,8,9	DB	
			4,7,10,11-15	SC	
Semester III (GE) (July to December)	GE-T-01	29. Microbes	KS		
		30. Algae	DB		
		31. Fungi	DB		
		32. Introduction to archaegoniates	SC		
		33. Bryophyte	SC		
		34. Pteridophytes	SDS		
		35. Gymnosperm	RKS		
		GE-P-01	1-3	SC	
			5,6,8,9	KS	
			4,7,10,11-15	SC	
Semester II (GE) (January to June)	GE-T-02	43. Introduction	RKS		
		44. Ecological factors	RKS		
		45. Plant communities	SC		
		46. Eco system	DB		
		47. Phyto geography	SC		
		48. Conservation of biodiversity	RKS		
		49. Plant morphology	DB		
		50. Introduction to plant taxonomy	SC		
		51. Identification	DB		

		52. Taxonomic hierarchy	RKS	
		53. Botanical nomenclature	RKS	
		54. Classification	RKS	
		55. Numerical taxonomy and cladistics	RKS	
		56. Taxonomic families	RKS	
	GE-P-02	1-4	SC	
		5,6	DB	
		7-9	KS	
Semester IV (GE) (January to June)	GE-T-02	57. Introduction	KS	
		58. Ecological factors	SC	
		59. Plant communities	RKS	
		60. Eco system	SDS	
		61. Phyto geography	SC	
		62. Conservation of biodiversity	DB	
		63. Plant morphology	SC	
		64. Introduction to plant taxonomy	SC	
		65. Identification	DB, KS	
		66. Taxonomic hierarchy	RKS	
		67. Botanical nomenclature	KS	
		68. Classification	RKS	
		69. Numerical taxonomy and cladistics	RKS	
		70. Taxonomic families	RKS	
	GE-P-02	1-4	SC, RKS	
		5,6	DB	
		7-9	KS, SC	
Semester I (CC) (July to December)	CC-T-01	1. Microbes	RKS	
		2. Algae	DB	
		3. Fungi	DB	
		4. Introduction to archaeogonates	SC	
		5. Bryophyte	SC	
		6. Pteridophytes	RKS	
		7. Gymnosperm	RKS	
	CC-P-01	1-3	KS	
		5,6,8,9	DB	
	CC-P-01	4,7,10-15	RKS	
Semester III (CC) (July to December)	CC-T-03	Unit 1: Cell as a unit of life	KS, SDS	
		Unit 2: Cell organelles	SC	
		Unit 3: Cell membrane and Cell wall	SC	
		Unit 4: Cell cycle	KS, SDS	
		Unit 5: Genetic material and protein synthesis	SC, SDS	
		Unit 6: Meristematic tissues, permanent tissues and organs	DB	

		Unit 7: Secondary growth, adaptive and protective systems	DB	
		Unit 8: Structural organization of flower	SC	
		Unit 9: Pollination and fertilization	SC, SDS	
		Unit 10: Embryo and endosperm	SDS, KS	
		Unit 11: Apomixis and polyembryony	KS, DB	
	CC-P-03	1-6	SC, KS	
		7-11	DB	
		12-16	SDS, KS, SC	
Semester V (CC) (July to December)	DSE-T-01-B	Unit 1: Scope of microbes in industry and environment	SC, SDS	
		Unit 2: Bioreactors/ Fermenters and fermentation processes	SDS	
		Unit 3: Microbial production of industrial products	SC, SDS	
		Unit 4: Microbial enzymes of industrial interest and enzyme immobilization	DB, KS	
		Unit 5: Microbes and quality of environment	SC, DB	
		Unit 6: Microbial flora of water	SC, SDS	
		Unit 7: Microbes in agriculture and remediation of contaminated soils	KS, DB	
	DSE-P-01-B	1-4	SC	
		5-7	KS, DB, SDS	
	SEC-T-03-A	Unit 1: Herbal medicines	SDS, KS	
		Unit 2: Pharmacognosy	KS	
		Unit 3: Phytochemistry	SC, KS	
		Unit 4: Analytical pharmacognosy	KS, SDS	
		Unit 5: Medicinal plant banks	SC, KS	
Semester II (CC) (January to June)	CC-T-02	1.Introduction	DB/SC	
		2. Ecological factors	SC	
		3.Plant communities	DB	
		4.Eco system	SC	
		5.Phyto geography	DB/SC/AH	
		6.Conservation of biodiversity	DB	
		7.Plant morphology	SC	
		8.Introduction to plant taxonomy	DB	
		9.Identification	DB/SC/AH	
		10.Taxonomic hierachy	DB/SC/AH	
		11.Botanical nomenclature	DB/SC/AH	
		12.Classification	DB/SC/AH	
		13.Neumerical taxonomy and cladistics	DB/SC/AH	
		14.Taxonomic families	DB/SC/AH	
	CC-P-02	1-4	AH, KS	
		5,6	DB	

		7-9	KS	
	SEC-T-01-B	1,3	SC	
		2,4	DB	
Semester IV (CC) (January to June)	CC-T-04	Unit 1: Plant-water relations		
		Unit 2: Mineral nutrition		
		Unit 3: Translocation in phloem.		
		Unit 4: Photosynthesis		
		Unit 5: Respiration		
		Unit 6: Enzymes		
		Unit 7: Nitrogen metabolism		
		Unit 8: Plant growth regulators		
		Unit 9: Plant response to light and temperature		
	CC-P-04	1-6	SDS, KS, SC, DB	
		Demonstration: 1-3	SC, KS	
	SEC-T-02-B	Unit 1: Introduction	SC, DB	
		Unit 2: Cultivation Technology	DB, AH	
		Unit 3: Storage and nutrition	SC, DB	
		Unit 4: Food Preparation	SC	
Semester VI (CC) (January to June)	DSE-T-02-A	Unit 1: Natural resources	SC, AH	
		Unit 2: Sustainable utilization	SC	
		Unit 3: Land	AH, DB	
		Unit 4: Water	AH, KS	
		Unit 5: Biological Resources	SC, AH	
		Unit 6: Forests	SC	
		Unit 7: Energy	SC, AH	
		Unit 8: Contemporary practices in resource management	AH	
		Unit 9: National and international efforts in resource management and conservation	KS, DB	
	DSE-P-02-A	1,2,3	KS, SC, AH	
		4, 5	SDS, DB	
	SEC-T-04-A	Unit 1: Ethnobotany	KS, SC	
		Unit 2: Methodology of Ethnobotanical studies	AH, DB	
		Unit 3: Role of ethnobotany in modern medicine	KS, DB	
		Unit 4: Ethnobotany and legal aspects	SC, AH	
Part II (July to October)	II GrpA	7. Cytogenetics & molecular genetics 1.1-1.4	SC	
	II Grp B	8. Plant physiology and biochemistry 2.1-2.6	SC	

	II GrpC	7. Anatomy 1.1-1.3 8. Reproduction and embryology 2.1-2.4	RKS RKS	
	III Prac	1-6	DB, SC, RKS	
Part II (November to Rest)	II GrpA	1.Cytogenetics & molecular genetics 1.5-1.10	SC	
	II Grp B	2.Plant physiology and biochemistry 2.7-2.11	SC	
	II GrpC	1.Anatomy 1.4 2.Reproduction and embryology 2.5-2.7	RKS SC	
	III Prac	1-6	SC, DB, RKS	
Part III (July to October)	IV	Biotechnology, plant pathology and plant breeding 1-3 4-5	SDS RKS	
	V Prac	1,2,3	RKS	
Part III (November to Rest)	IV	Biotechnology, plant pathology and plant breeding 6 7,8 9	RKS SC SDS	
	V Prac	4-6	RKS	

Department of Botany
Distribution of syllabus into module (For Hons.)
Academic Session: 2021-2022

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
Semester I (July to December)	CC-T-01	7 Biomolecules	KS	
		8 Bioenergetics	SC, AH	
		3 Enzyme	SC	
		4 The cell	SDS, AH	
		5 Cell wall and plasma membrane	SDS	
		6 Cell organelles	SDS	
		7 Cell division	KS, AH	
	CC-P-01	1,4,5	SC	
		2,3,8,9	KS	
		6,7	SDS, AH	
	CC-T-02	1 Morphology of leaves	DB	
2 Morphology of Inflorescence		DB, AH		
3 Morphology of flower		DB		
4 Morphology of Fruits and Seeds		SC		
5 Cell wall		SC, AH		
6 Tissue		SDS		
7 Apical meristem		SDS		
8 Primary plant body		SC, AH		
9 Secondary plant body		KS		
10 Adaptive and Protective Systems		KS, AH		
11 Scope of plant anatomy		KS		
CC-P-02	Morphology	DB, AH		
	2,3	KS		
	4,5	DB		
	6	SDS, AH		
Semester III (July to December)	CC-T-05	1. General account of Bryophytes	SDS	
		2. Classification of Bryophytes	SDS, AH	
		3. Type Studies of Bryophyte	SC	
		4. Origin and Evolution of Bryophytes	SDS	
		5. Importance of Bryophytes	SC, AH	
		6. General Account of Pteridophytes	AH	
		7. Classification of Pteridophytes	SC	
		8. Type Studies of Pteridophytes	SC	
		9. Origin and Evolution	SC, AH	
		10. Importance of Pteridophytes	SC	
	CC-P-05	1,2,3,4	SDS	
5,6,7		KS		
8,9,10,11		SC, AH		

Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
	CC-P-05	12	KS	
	CC-T-06	1. Progymnosperms and General account of Gymnosperms	AH	
		2. Classification of Gymnosperms	AH	
		3. Type Studies of Gymnosperms	SC	
		4. Origin and Evolution of Gymnosperms	KS	
		5. Importance of Gymnosperms	SC	
		6. Introduction to Palaeobotany	KS	
		7. Plant fossil & their age determination	AH	
		8. Study of plant fossil records	KS	
		9. Evolutionary theories, mass extinction and the plant fossil record	KS	
		10. Gondwana land and plant fossil (<i>Glossopteris</i>)	AH	
	CC-P-06	Gymnosperm: <i>Cycas, Pinus, Gnetum, Ephedra</i>	SC, KS	
		Palaeobotany	KS, AH	
	CC-T-07	1. Introduction	SDS	
		2. Reproductive development	SC	
		3. Anther and pollen biology	SC	
		4. Ovule	SC	
		5. Pollination and fertilization	SDS, AH	
		6. Self incompatibility	SDS	
		7. Embryo, Endosperm and Seed	SDS, AH	
		8. Polyembryony and Apomixis	SC	
	CC-P-07	1,2,3,4	SC	
		5,6,7	SDS	
	SEC-T-01-B	1. Plant diversity and its scope	SC, AH	
		2. Loss and Management of Biodiversity	SC, AH	
		3. Conservation of Biodiversity	DB	
		4. Role of plants in relation to Human Welfare	DB	
Semester V (July to December)	CC-T-11	1. Plant-water relations	SDS, AH	
		2. Mineral nutrition	SDS	
		3. Nutrient Uptake	SDS, AH	
		4. Translocation in the phloem	SDS	
		5. Plant growth regulators	SC, AH	
		6. Physiology of flowering	SC	
		7. Phytochrome, crytochromes and phototropins	DB	
		8. Seed dormancy	KS	
	CC-P-11	1,2,3	SDS, AH	
		4,5,6	KS, SC,AH	
	CC-T-12	1. Concept of metabolism	SDS	
		2. Carbon assimilation	SDS, AH	
		3. Carbohydrate metabolism	SDS	
		4. Carbon Oxidation	SC	
Class	Paper	Topic No.(according to syllabus)	Topic allotted	Remarks

(Duration)			to teachers	(if any)
		5. ATP-Synthesis	KS, AH	
		6. Lipid metabolism	KS	
		7. Nitrogen metabolism	SC, AH	
		8. Mechanisms of signal transduction	SDS	
	CC-P-12	Detection: 1,2,3,4	KS	
		Detection: 5,6,7,8,9	SC	
		Demonstration Experiment: 1	KS, AH	
	DSE-T-01-B	1. Scope of microbes in industry and environment.	SC	
		2. Bioreactors/ Fermenters and fermentation processes.	SC	
		3. Microbial production of industrial products	SC	
		4. Microbial enzymes of industrial interest and enzyme immobilization	SDS, AH	
		5. Microbes and quality of environment	SDS	
		6. Microbial flora of water	SDS	
		7. Microbes in agriculture and remediation of contaminated soils	SC, AH	
	DSE-P-01-B	1,2,3,4	SC, AH	
		5,6,7	KS	
Semester II (January to June)				
	CC-T-03	UNIT 1. Introduction to microbial world....	SDS, AH	
		UNIT 2. Viruses	KS	
		UNIT 3. Bacteria	SC, AH	
		UNIT 4. Introduction to Algae	KS, AH	
		UNIT 5. Cyanophyta and Prochlorophyta	KS, AH	
		UNIT 6. Rhodophyta Chlorophyta Charophyta	SC	
		UNIT 7. Xanthophyta Phaeophyta	KS, AH	
	CC-P-03	1,2	KS	
		3,4	SC, AH	
	CC-P-03	5,6	SDS	
		Phycology	SDS, SC, KS	
	CC-T-04	7 Introduction to true fungi	SDS	
		8 Chitridiomycota & zygomycota	KS	
		3 Ascomycota	SC	
		4 Basidiomycota	KS	
		5 Allied Fungi	SDS, AH	
		6 Oomycota	DB	
		7 Symbiotic association	SC, AH	
		8 Applied mycology	DB	
		9 Plant pathology	DB	
	CC-P-04	Fungi 1 2,3	DB KS, SC	
		Plant pathology 1a, 1b	SDS	

		1c, 2	DB	
Semester IV (January to June)	CC-T-08	1. Significance of plant systematics	AH	
		2. Taxonomic hierarchy	SC	
		3. Botanical nomenclature	SC	
		4. Systems of classification	SC, AH	
		5. Biometrics, numerical taxonomy and cladistics	KS	
		6. Phylogeny of Angiosperms	KS	
		7. Diagnostic features, Systematic position (Bentham and Hooker, and Cronquist), Economically important plants (parts used and uses) of the following families	SC, DB, AH	
	CC-P-08	1,2	SC, DB, AH	
		3,4	SC,SDS,KS, DB	
	CC-T-09	1. Introduction	SC	
		2. Soil	SC, AH	
		3. Water	SC	
		4. Light, temperature, wind and fire	SC	
		5. Biotic interactions	SDS, AH	
		6. Population ecology	SDS	
		7. Plant communities	SDS, AH	
		8. Ecosystems	SDS	
		9. Functional aspects of ecosystem	SDS	
		10. Phytogeography	SC, AH	
	CC-P-09	1	SC	
		2,3,4	KS, AH	
		5	SDS, AH	
		6	SC	
		7,8,9	SDS,KS,DB,SC	
	CC-10-T	1. Origin of Cultivated Plants	DB	
		2. Cereals	SC, AH	
		3. Legumes	SDS	
		4. Sources of sugars and starches	SC	
		5. Spices and Condiments	SC, AH	
		6. Beverages	SC	
		7. Sources of oils and fats	SDS	
		8. Natural Rubber	DB, AH	
		9. Timber plants	DB	
		10. Fibers	DB	
		11. Pharmacognosy	KS	
		12. Study of following drug plants (Botanical name with family, source, short description, histology, constituents, uses, adulterants)	KS, AH	
	CC-10-P	1,2,3,4	SC	
Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
		5,6,7,8	SDS	

		9,10	KS, AH	
	SEC-T-02 B	1,2	DB,SC	
		3,4	DB, SC, AH	
Semester VI (January to June)	CC-T-13	1: Mendelian genetics and its extension	SC, AH	
		2: Extrachromosomal inheritance	SDS, SC	
		3: Linkage, crossing over and chromosome mapping	SC	
		4: Chromosome and nucleic acids	AH	
		5: Variation in chromosome number and structure	SC, SDS	
		6: Fine structure of gene	SDS, AH	
		7: Gene mutations	SC	
		8: Central dogma and genetic code	AH	
		9: Transcription	AH	
		10: Translation	SDS	
		11. Population genetics	AH	
	CC-P-13	1, 2, 3	KS, SC	
		4, 5	SC, AH	
		6,7	SDS, KS	
	CC-T-14	1: Plant tissue culture	SC	
		2: Recombinant DNA technology	AH	
		3: Gene cloning	SC	
		4: Methods of gene transfer	AH	
		5: Applications of biotechnology	AH, SDS	
	CC-P-14	1,2	SC	
		3,4	SDS	
		5	AH, SDS	
	DSE-T-3A	1: Natural resources	SC	
		2: Sustainable utilization	SC	
		3: Land	SC	
		4: Water	SC	
		5: Biological Resources	AH	
		6: Forests	AH	
		7: Energy	SC	
		8: Contemporary practices in resource management	AH	
		9: National and international efforts in resource management and conservation	AH	
	DSE-P-3A	1, 2, 3	SDS, KS, SC, AH, DB	
		4, 5		
	DSE-T-4B	1: Basic concepts of research	AH	
Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)
		2: General laboratory practices	AH	
		3: Data collection and documentation of	AH	

		observations		
		4: Overview of Biological Problems	SDS, SC	
		5: Methods to study plant cell/ tissue structure	KS, DB	
		6: Plant microtechniques	SC, AH	
		7: The art of scientific writing and its presentation	KS, SDS	
	DSE-P-4B	1, 2	SC, AH	
		3, 4	SDS, KS, DB	

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Class (Duration)	Paper	Topic No.(according to syllabus)	Topic allotted to teachers	Remarks (if any)	
Semester I (GE) (July to December)	GE-T-01	36. Microbes	RKS		
		37. Algae	DB		
		38. Fungi	DB		
		39. Introduction to archaegoniates	SC		
		40. Bryophyte	SC		
		41. Pteridophytes	AH		
		42. Gymnosperm	AH		
		GE-P-01	1-3	KS	
			5,6,8,9	DB	
			4,7,10,11-15	SC	
Semester III (GE) (July to December)	GE-T-01	43. Microbes	KS		
		44. Algae	DB		
		45. Fungi	DB		
		46. Introduction to archaegoniates	SC		
		47. Bryophyte	SC		
		48. Pteridophytes	SDS		
		49. Gymnosperm	AH		
		GE-P-01	1-3	SC	
			5,6,8,9	KS	
			4,7,10,11-15	SC	
Semester II (GE) (January to June)	GE-T-02	71. Introduction	AH		
		72. Ecological factors	AH		
		73. Plant communities	SC		
		74. Eco system	DB		
		75. Phyto geography	SC		
		76. Conservation of biodiversity	RKS		
		77. Plant morphology	DB		
		78. Introduction to plant taxonomy	SC		
		79. Identification	DB		

		80. Taxonomic hierachy	AH	
		81. Botanical nomenclature	AH	
		82. Classification	AH	
		83. Neumerical taxonomy and cladistics	AH	
		84. Taxonomic families	SC, AH, DB	
	GE-P-02	1-4	SC	
		5,6	DB	
		7-9	KS	
Semester IV (GE) (January to June)	GE-T-02	85. Introduction	KS	
		86. Ecological factors	SC	
		87. Plant communities	AH	
		88. Eco system	SDS	
		89. Phyto geography	SC	
		90. Conservation of biodiversity	DB	
		91. Plant morphology	SC	
		92. Introduction to plant taxonomy	SC	
		93. Identification	DB, KS	
		94. Taxonomic hierachy	SC	
		95. Botanical nomenclature	KS	
		96. Classification	AH	
		97. Neumerical taxonomy and cladistics	KS, AH	
		98. Taxonomic families	SC, AH	
	GE-P-02	1-4	SC, KS	
		5,6	DB	
		7-9	KS, SC	
Semester I (CC) (July to December)	CC-T-01	1.Microbes	KS	
		2.Algae	DB	
		3.Fungi	DB	
		4.Introduction to archaegoniaties	SC	
		5.Bryophyte	SC	
		6.Pteridophytes	AH	
		7.Gymnosperm	AH	
	CC-P-01	1-3	KS	
		5,6,8,9	DB	
	CC-P-01	4,7,10-15	AH, SC, KS	
Semester III (CC) (July to December)	CC-T-03	Unit 1: Cell as a unit of life	KS, SDS	
		Unit 2: Cell organelles	SC	
		Unit 3: Cell membrane and Cell wall	SC	
		Unit 4: Cell cycle	KS, SDS	
		Unit 5: Genetic material and protein synthesis	SC, SDS	
		Unit 6: Meristematic tissues, permanent tissues and organs	DB	

		Unit 7: Secondary growth, adaptive and protective systems	DB	
		Unit 8: Structural organization of flower	SC	
		Unit 9: Pollination and fertilization	SC, SDS	
		Unit 10: Embryo and endosperm	SDS, KS	
		Unit 11: Apomixis and polyembryony	KS, DB	
	CC-P-03	1-6	SC, KS	
		7-11	DB	
		12-16	SDS, KS, SC	
Semester V (CC) (July to December)	DSE-T-01-B	Unit 1: Scope of microbes in industry and environment	SC, SDS	
		Unit 2: Bioreactors/ Fermenters and fermentation processes	SDS	
		Unit 3: Microbial production of industrial products	SC, SDS	
		Unit 4: Microbial enzymes of industrial interest and enzyme immobilization	DB, KS	
		Unit 5: Microbes and quality of environment	SC, DB	
		Unit 6: Microbial flora of water	SC, SDS	
		Unit 7: Microbes in agriculture and remediation of contaminated soils	KS, DB	
	DSE-P-01-B	1-4	SC	
		5-7	KS, DB, SDS	
	SEC-T-03-A	Unit 1: Herbal medicines	SDS, KS	
		Unit 2: Pharmacognosy	KS	
		Unit 3: Phytochemistry	SC, KS	
		Unit 4: Analytical pharmacognosy	KS, SDS	
		Unit 5: Medicinal plant banks	SC, KS	
Semester II (CC) (January to June)	CC-T-02	1.Introduction	DB/SC	
		2. Ecological factors	SC	
		3.Plant communities	DB	
		4.Eco system	SC	
		5.Phyto geography	DB/SC/AH	
		6.Conservation of biodiversity	DB	
		7.Plant morphology	SC	
		8.Introduction to plant taxonomy	DB	
		9.Identification	DB/SC/AH	
		10.Taxonomic hierachy	DB/SC/AH	
		11.Botanical nomenclature	DB/SC/AH	
		12.Classification	DB/SC/AH	
		13.Neumerical taxonomy and cladistics	DB/SC/AH	
		14.Taxonomic families	DB/SC/AH	
	CC-P-02	1-4	AH, KS	
		5,6	DB	

		7-9	KS	
	SEC-T-01-B	1,3	SC	
		2,4	DB	
Semester IV (CC) (January to June)	CC-T-04	Unit 1: Plant-water relations		
		Unit 2: Mineral nutrition		
		Unit 3: Translocation in phloem.		
		Unit 4: Photosynthesis		
		Unit 5: Respiration		
		Unit 6: Enzymes		
		Unit 7: Nitrogen metabolism		
		Unit 8: Plant growth regulators		
		Unit 9: Plant response to light and temperature		
	CC-P-04	1-6	SDS, KS, SC, DB	
		Demonstration: 1-3	SC, KS	
	SEC-T-02-B	Unit 1: Introduction	SC, DB	
		Unit 2: Cultivation Technology	DB, AH	
		Unit 3: Storage and nutrition	SC, DB	
		Unit 4: Food Preparation	SC	
Semester VI (CC) (January to June)	DSE-T-02-A	Unit 1: Natural resources	SC, AH	
		Unit 2: Sustainable utilization	SC	
		Unit 3: Land	AH, DB	
		Unit 4: Water	AH, KS	
		Unit 5: Biological Resources	SC, AH	
		Unit 6: Forests	SC	
		Unit 7: Energy	SC, AH	
		Unit 8: Contemporary practices in resource management	AH	
		Unit 9: National and international efforts in resource management and conservation	KS, DB	
	DSE-P-02-A	1,2,3	KS, SC, AH	
		4, 5	SDS, DB	
	SEC-T-04-A	Unit 1: Ethnobotany	KS, SC	
		Unit 2: Methodology of Ethnobotanical studies	AH, DB	
		Unit 3: Role of ethnobotany in modern medicine	KS, DB	
		Unit 4: Ethnobotany and legal aspects	SC, AH	

Modularisation of syllabus (Sub : Chemistry Hons and General)

Name of teacher : **Dr. Mausumi Roychowdhury**

Session : 2017-2018

Name of the course	1st year	2nd year	3rd year
HONOURS	<p>Theory- Bonding features, Acidity & Basicity, Tautomerism, Reaction Mechanism-I Alkanes, Alkenes, Alkynes, Dienes, Arenes, Halides</p> <p>Practical- Organic qualitative analysis and organic preparations</p>	<p>Theory- Carbonyl compounds, Alcohols, Phenols, Ethers, Epoxides, Carboxylic acids, Amino, Nitro, Diazo compounds, Organometallics</p>	<p>Theory- UV, IR, NMR Spectroscopy, Organic Synthesis-II Some name reactions, Uses of some reagents, Heterocyclic compounds, Synthetic dyes, Polymers, Pharmaceuticals</p> <p>Practical- Organic quantitative analysis</p>
GENERAL	<p>Theory- Aliphatic Hydrocarbons And their derivatives, aldehydes and ketones</p>	<p>Theory- Mechanism of organic reactions, Phenols</p> <p>Practical- 1. qualitative Inorganic and organic analysis 2. quantitative Inorganic and organic analysis.</p>	<p>Theory- Amino Acids and Proteins</p>

Modularisation of syllabus (Sub : Chemistry Hons and General)

Name of teacher : **Dr. Bhaskar Chatterjee**

Session : 2017-18

Name of the course	1st year	2nd year	3rd year
HONOURS	Theory- Stereochemistry-I Reaction Mechanism-II Practical- Organic qualitative analysis and organic preparations	Theory- Stereochemistry-II Reaction Mechanism-III	Theory- Stereochemistry-III Reaction Mechanism-IV Organic Synthesis-I Molecules of nature Practical- Organic quantitative analysis
GENERAL	Theory- Alcohols, ethers, Organic compounds containing nitrogen, carbohydrates	Theory- Stereochemistry of organic compounds Benzene and its derivatives Practical- 1. Inorganic and organic qualitative analysis 2.. Inorganic and organic quantitative analysis.	Theory- Nucleosides and nucleotides Practical- Nil

Modularisation of syllabus (Sub : Chemistry Hons and General)

Name of teacher : Pankaj Sarkar

Session : 2017-18

Name of the course	1 ST YEAR	2 ND YEAR	3 RD YEAR
Honours	<p>Theory- Gr.A - Atomic Structure, Periodic Properties, Chemical Bonding-1 Gr. B - Nuclear chemistry & radioactivity, chemistry of elements, acids, bases and solvents</p>	<p>Theory- Gr A- Transition elements and coordination compounds, nature of chemical bond-2, Redox potentials Gr. B - Lanthanides & actinides, Separation through chromatographic technique, Organic reagents in Chemical analysis, Complexometric titrations, Mononuclear metal carbonyls Practical- Quantitative Inorganic Analysis and Inorganic preparations</p>	<p>Theory- Symmetry elements, symmetry operations & point groups, Magneto Chemistry, nature of chemical bond-3 Gr B- Chemistry of Organometallic compounds, Bio-inorganic Chemistry, chemistry of elements Practical- Qualitative Inorganic Analysis</p>
General	<p>Theory- Principle of chemical analysis, Atomic structure, periodic properties, the chemical bond</p>	<p>Theory- Chemistry of elements, Coordination compounds, radiochemistry Practical- Qualitative and Quantitative Inorganic and Organic analysis</p>	<p>Theory- Bio-inorganic Chemistry, Application oriented chemistry Practical- Experiments of Viscosity, Surface tension, Refractivity, Polarimetry, Solubility, Distribution law, Chemical kinetics, Colorimetry</p>

Modularisation of syllabus (Sub : Chemistry Hons and General)

Name of teacher : **Dr.Soma Seth Duley**

Session : 2017-18

Name of the course	1 st year	2 nd year	3 rd year
Honours	<p>Theory -Kinetic Theory and Gaseous State, Chemical Thermodynamics, Chemical Equilibrium, Colligative Properties, Liquid State Practical- Nil</p>	<p>Theory- Electrochemistry, Chemical Kinetics, Crystalline State, Adsorption and Surface Phenomena, Colloid and Macromolecules Practical- Nil</p>	<p>Theory- Electrical & Magnetic properties of matter, Rotational Spectra, Vibrational Spectra, Photochemistry, Statistical Thermodynamics, Quantum Chemistry, Atomic spectra & Molecular Structure, Atomic structure & Atomic Spectra, Chemical Bonding & Molecular Geometry, Phase Equilibria Practical- Viscosity, Surface tension, Adsorption, Distribution law, Thermodynamics, Chemical Kinetics, Colorimetry, Polarimetry, Refractometry , Conductometry Potentiometry, P_H – metry, Computer Applications</p>
General	<p>Theory -Kinetic Theory of gases, 1st and 2nd law of Thermodynamics, Principles of Thermochemistry, Dilute Solutions. Practical- Nil</p>	<p>Theory- Viscosity, Surface tension, Electrolytic Conductance, EMF, Ionic Equilibria, Chemical Kinetics Practical- Qualitative and Quantitative Inorganic and Organic analysis</p>	<p>Theory- Surface Chemistry, Colloids and Macromolecules, Catalysis and Phase Rule Practical- Viscosity, Surface tension, Chemical Kinetics Colorimetry, Polarimetry, Refractometry, Distribution Law, Solubility .</p>

Modularisation of Syllabus

Session: 2018-2019

Subject: Chemistry (Hons.)

Name of Faculty: Dr. Soma Seth (Duley)

	Theory	Practical
Sem-I (CBCS)	Kinetic Theory of gaseous state - Kinetic Theory of gases, Maxwell distribution of speed and energy, Real gas and virial equation, Chemical Thermodynamics-I – Zeroth and 1st law of thermodynamics, Thermochemistry.	1. Determination of pH of unknown buffer solution, 2. Determination of heat of neutralisation of a strong acid by a strong base. 3. Determination of heat of solution of oxalic acid.
(Sem-II CBCS)	Chemical Thermodynamics-II - Second Law, Thermodynamic Relations 12L Chemical Kinetics - Rate law, Order and molecularity, Role of Temperature And theories of reaction rate, Homogeneous catalysis. 18L	1. Study of kinetics of acid catalysed hydrolysis of methyl acetate 2. Study of kinetics of decomposition of H ₂ O ₂
PART-II	Electrochemistry, Chemical Kinetics, Crystalline State, Adsorption and Surface Phenomena, Colloid and Macromolecules	NIL
PART-III	Group A : Electrical and Magnetic Properties of Matter, Rotational Spectra, Vibrational Spectra Photochemistry, Statistical Thermodynamics Group B : Quantum Theory, Atomic Spectra and Molecular Structure, Atomic Structure and Atomic Spectra, Chemical Bonding and Molecular Geometry, Phase-equilibria	Group A 1. Viscosity 2. Surface tension 3. Adsorption 4. Distribution law 5. Thermodynamics 6. Chemical Kinetics 7. Colourimetry Group B 1. Colorimetry 2. Polarimetry 3. Refractometry 4. Conductometry 5. Potentiometry 6. PH– metry Group C: Computer application

Subject: Chemistry (General)

	Theory	Practical
Sem-I (CBCS)	NIL	NIL
Sem-II (CBCS)	Kinetic Theory of gases and real gases, liquids	Viscosity , Surface tension, Chemical kinetics
Part-II	Viscosity, Surface Tension, Electrolytic Conductance, EMF, Ionic Equilibria, Chemical kinetics	Group: A (Inorganic): Qualitative analysis & Quantitative analysis Group: B (Organic): Qualitative analysis & Quantitative analysis
Part-III	Surface Chemistry & Colloids and Macromolecules Catalysis & Phase rule	<u>Experiments</u> A: Viscosity B: Surface tension C: Refractivity D: Polarimetry E: Solubility F: Distribution law. G: Chemical kinetics H: Colorimetry

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)**Name of teacher : MANISHA DAS (guest teacher) Session : 2018-2019**

Name of the course	1ST Sem (CBCS)	2ND Sem CBCS)	2nd year (Part-II)	3rd year (Part-III)
Hons.	NIL	NIL	Theory- Chemistry of Coordination Compounds, Redox potential, Surface Chemistry, Adsorption of Macromolecules	Theory- Symmetry elements, Symmetry operations, Point groups.
Genera/ GE & PCC (CBCS)	Theory- Atomic Structure, Redox reactions Practical- Estimation of Na ₂ CO ₃ and NaHCO ₃ in a mixture, oxalic acid titrating with KMnO ₄ , Fe (II) ions and Cu(II) ions.	Theory- Solid chemistry, Chemical bonding Practical- Qualitative inorganic analysis	Practical- Qualitative and Quantitative inorganic and organic analysis	Theory- Bio-inorganic chemistry, Application oriented Chemistry (Soaps and detergents, Cosmetics).

Modularisation of Syllabus (Sub : Chemistry Honours and General)

Name of teacher : PANKAJ SARKAR

Session : 2018-2019

Name of the course	1 ST Sem (CBCS)	2 ND Sem (CBCS)	2nd Year (Part-II)	3 rd Year (Part-III)
Honours	<p>Theory- Extra nuclear structure of atoms, Periodic Properties Practical- Methods of preparation of standard solutions, Estimation of carbonate and hydroxide , carbonate and bicarbonate in a mixture.</p>	<p>Theory- Redox Reactions and precipitation reactions, Acid –Base concepts and solvents Practical- Estimation of Fe(II), Fe (III), Ca²⁺, Cu²⁺, Cr³⁺.</p>	<p>Theory- Gr A- Transition elements, nature of chemical bond-2 Gr. B - Lanthanides & actinides, Separation through chromatographic technique, Organic reagents in Chemical analysis, Complexometric titrations, Mononuclear metal carbonyls Practical- Quantitative inorganic analysis and inorganic preparations</p>	<p>Theory- Gr.A-Magneto Chemistry, nature of chemical bond-3 Gr B- Bio-inorganic Chemistry, chemistry of elements Practical- Qualitative inorganic analysis</p>
General / GE &PCC (CBCS)	<p>Theory- Chemical Periodicity, Acids and Bases, Practical- Estimation of Na₂CO₃ and NaHCO₃ in a mixture, oxalic acid titrating with KMnO₄, Fe (II) ions and Cu(II) ions.</p>	<p>Theory- Chemical Kinetics and <i>p</i>-block elements Practical- Experiments of Chemical Kinetics and Qualitative inorganic analysis</p>	<p>Theory- Chemistry of elements Practical- Qualitative and Quantitative inorganic and organic analysis</p>	<p>Theory- Application oriented Chemistry Practical- Experiments of Viscosity, Surface tension, Refractivity, Polarimetry, Solubility, Distribution law, Chemical kinetics, Colorimetry</p>

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : Dr. Bhaskar Chatterjee

Session : 2018-2019

SEM/YR	HONOURS	GENERAL
1st Sem (CBCS)	<p>Theory- Stereochemistry-I Bonding geometries of carbon compounds and representation of the molecules, Concept of chirality and symmetry, Relative and absolute configuration, Optical activity of chiral compounds.</p> <p>Practical - 1. Separation of components of a binary solid mixture 2. Determination of boiling point 3. Identification of a pure organic compound by chemical tests</p>	<p>Theory- Stereochemistry Substitution and elimination reactions</p> <p>Practical- qualitative analysis of a single organic compound.</p>
2nd Sem (CBCS)	<p>Theory- Stereochemistry-II Chirality arising out of stereoaxis, Concept of prostereoisomerism, Conformation</p> <p>Substitution Reactions Free radical and Nucleophilic Substitution Reactions</p> <p>Practical - Preparion, Purification and Determination of melting point of organic compounds.</p>	<p>Practical- Experiments of surface tension, viscosity</p>
2nd year (Part-II)	<p>Theory- Stereochemistry-II Reaction Mecanism-III</p>	<p>Theory- Stereochemistryof organic compounds Benzene and its derivatives</p> <p>Practical- 1. Inorganic and organic qualitative analysis 2.. Inorganic and organic quantitative analysis</p>
3rd year (Part-III)	<p>Theory- Stereochemistry-III Reaction Mecanism-IV Organic Synthesis-I Molecules of nature</p> <p>Practical- Organic quantitative analysis</p>	<p>Theory- Nucleosides and nucleotides</p>

Modularisation of syllabus (Sub : Chemistry Hons and General)

Name of teacher : Dr. Mausumi Roychowdhury

Session : 2018-2019

Sem/ year	HONOURS	GENERAL / GE and PCC (CBCS)
Sem-I (CBCS)	<p>Theory- Bonding and Physical properties (Valence Bond Theory, Electronic displacements, MO theory, Physical properties). General treatment of reaction mechanism-1(Mechanistic classification, Reaction Intermediates) Practical - 1. Separation of components of a binary solid mixture 2. Determination of boiling point 3. Identification of a pure organic compound by chemical tests</p>	<p>Theory- Fundamentals of Organic Chemistry, Alkanes, Alkenes ,Alkynes. Practical- Qualitative analysis of a single organic compound</p>
Sem-II (CBCS)	<p>Theory- General treatment of reaction mechanism-II Reaction Thermodynamics , Concept of organic acids and bases, Tautomerism, Reaction Kinetics Elimination reactions Practical - Preparation, Purification and Determination of melting point of organic compounds</p>	<p>Theory- Chemical Bonding and Molecular Structure Practical- Experiments of surface tension, viscosity, Chemical kinetics</p>
2nd Year (Part-II)	<p>Theory- Carbonyl compounds, Alcohols, Phenols, ethers, epoxides, Carboxylic acids, amino, nitro, diazo compounds, Organometallics</p>	<p>Theory- Mechanism of organic reactions , Phenols Practical- 1. Qualitative Inorganic and organic analysis 2.. Quantitative Inorganic and organic analysis.</p>
3rd year (Part-III)	<p>Theory- UV, IR, NMR Spectroscopy, Organic synthesis-II , Some name reactions, Uses of some reagents, Heterocyclic compounds, Synthetic dyes, Polymers, Pharmaceuticals Practical- Nil</p>	<p>Theory- Amino Acids and Proteins Practical- Nil</p>

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : Dr. Mausumi Roychowdhury Year : (2019-2020)

SEM	HONOURS	GE / PCC
1st Sem	<p>Theory- Bonding and Physical properties (valence bond theory, electronic displacements, MO theory, physical properties).</p> <p>General treatment of reaction mechanism-1(Mechanistic classification, reaction intermediates)</p> <p>Practical -</p> <ol style="list-style-type: none"> 1. Separation of components of a binary solid mixture 2. Determination of boiling point 3. Identification of a pure organic compound by chemical tests 	<p>Theory- Fundamentals of organic chemistry, Alkanes, alkenes ,alkynes.</p> <p>Practical- Qualitative analysis of a single solid organic compound</p>
2nd Sem	<p>Theory- General treatment of reaction mechanism-II Reaction Thermodynamics , Concept of organic acids and bases, Tautomerism, Reaction Kinetics Elimination reactions</p> <p>Practical - Preperation, Purification and Determination of melting point of organic compounds</p>	<p>Theory- Chemical Bonding and Molecular Structure</p> <p>Practical- Experiments of surface tension, viscosity, Chemical kinetics</p>
3rd Sem	<p>Theory-Chemistry of alkenes and alkynes: (Addition to C=C: Addition to C≡C (in comparison to C=C),Electrophilic aromatic substitution, Nucleophilic aromatic substitution, Organometallics</p> <p>Practical - Qualitative Analysis of Single Solid Organic Compounds.</p>	<p>GE Theory-Same as GE-1 GE Practical – Same as GE-1 PCC Theory-Aromatic Hydrocarbons, Aryl Halides, Organometallics Practical- Identification of a pure organic compound (Solid & Liquid sample)</p>
4th sem	<p>Theory -Aliphatic and Aromatic Amines, Nitro compounds, Alkyl nitrile and Isonitrile, Diazonium salts and their related compounds, Organic Spectroscopy (UV, IR & NMR)</p> <p>Practical- Organic Quantitative Estimation</p> <p>SEC- Pharmaceutical Chemistry : Fermentation , Hands on Practical</p>	<p>Theory- Nil Practical –Nil PCC-SEC- Pharmaceutical Chemistry : Fermentation , Hands on Practical</p>

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : Dr. Bhaskar Chatterjee Year : (2019-2020)

SEM	Honours	GE/PCC
1st Sem	<p>Theory- Theory- Stereochemistry-I Bonding geometries of carbon compounds and representation of the molecules, Concept of chirality and symmetry, Relative and absolute configuration, Optical activity of chiral compounds.</p> <p>Practical - 1. Separation of components of a binary solid mixture 2. Determination of boiling point 3. Identification of a pure organic compound by chemical tests</p> <p>Practical</p>	<p>Theory- Stereochemistry, Nucleophilic Substitution and Elimination Reactions (9L) Practical- Qualitative Analysis of Single Solid Organic Compounds</p>
2nd Sem	<p>Theory- Stereochemistry-II Chirality arising out of stereoaxis, Concept of prostereoisomerism, Conformation</p> <p>Substitution Reactions Free radical and Nucleophilic Substitution Reactions</p> <p>Practical - Preparation, Purification and Determination of melting point of organic compounds.</p>	<p>Theory - Practical</p>
3rd Sem	<p>Theory-Carbonyl and related compounds : Addition to $>C=O$, Exploitation of acidity of α-H of carbonyl, Elementary ideas of Green Chemistry, Nucleophilic addition to α,β - unsaturated carbonyl system, Substitution at sp^2 Carbon ($>C=O$ system)</p> <p>Practical- Qualitative Analysis of Single Solid Organic Compounds.</p>	<p>GE Theory-Same as GE-1 GE Practical – Same as GE-1 PCC Theory- Alcohols, Phenols, Ethers, Carbonyl Compounds. Practical- Identification of a pure organic compound (Solid & Liquid sample)</p>
4th Sem	<p>Theory-Rearrangements: Mechanism with evidence and stereochemical features for the following: Rearrangement to electron-deficient carbon, nitrogen, Oxygen, Migration from nitrogen to ring carbon, Rearrangement reactions by green approach, The Logic of Organic Synthesis, Strategy of ring synthesis, Asymmetric synthesis.</p> <p>Practical- Organic Quantitative Estimation. SEC- Pharmaceutical Chemistry : Drugs and Pharmaceuticals,</p>	<p>Theory-Nil Practical-Nil PCC-SEC- Pharmaceutical Chemistry : Drugs and Pharmaceuticals</p>

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)**Name of teacher : Pankaj Sarkar Year : (2019-2020)**

Semester	Honours	GE/PCC
I	Theory: Inorganic Chemistry-Extra nuclear structure of atom, Periodic properties Practical: Inorganic Chemistry	Theory: Inorganic Chemistry-Chemical periodicity, Acids and Bases Practical: Inorganic Chemistry
II	Theory: Inorganic Chemistry- Acid-Base Concepts and solvents Practical: Inorganic Chemistry	Theory: Inorganic Chemistry-Comparative study of p-block elements Practical: Physical Chemistry
III	Theory: Inorganic Chemistry- Chemical Bonding-I, Metal extraction and purification : Basic Metallurgy Practical: Inorganic Chemistry SEC: Introduction, Complexometry, Soil analysis, Analysis of water, Analysis of food products, Chromatography, Ion-exchange, Analysis of cosmetics.	Theory: NA Practical:NA SEC: Introduction, Complexometry, Soil analysis, Analysis of water, Analysis of food products, Chromatography, Ion-exchange, Analysis of cosmetics,
IV	Theory: Inorganic Chemistry- Chemistry of p-block elements, Co-ordination Chemistry-I Practical: Inorganic Chemistry-	Theory: Inorganic Chemistry-Co-ordination Chemistry Practical: Inorganic preparation and Physical Chemistry

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : MONISHA DAS Year : (2019-2020)

SEM	HONOURS	GE / PCC
1st Sem	Theory-NA Practical-NA	Theory-GE-I and PCC-I : Inorganic Chemistry - I : Atomic structure , Redox reactions Practical-GE-I and PCC-I Inorganic - I
2nd Sem	Theory - Inorganic chemistry-1B: Redox reaction and precipitation reaction Physical chemistry-1B : Chemical kinetics Practical - Inorganic chemistry - 1B	Theory - GE-II : Chemical bonding and molecular structure Practical-GE-II and PCC-II Inorganic Chemistry - II
3rd Sem	Theory- Inorganic Chemistry - II : Chemical bonding-II Practical-NA	Theory - NA Practical - PCC- III : Physical Chemistry - II
4th Sem	Theory- Inorganic chemistry -III : Radioactivity and nuclear chemistry , chemistry of s block and p block element , Physical Chemistry - III : Electrical property of molecule Practical - NA	Theory - PCC-IV : Inorganic Chemistry - III : Crystal field theory , Transition elements Practical - GE-IV and PCC-IV Inorganic practical.

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher: Dr. Soma Seth (Duley) Year : (2019-2020)

SEM	HONOURS	GENERAL (GE / PCC)
1st Sem	<p>Theory-</p> <ol style="list-style-type: none"> 1. Kinetic Theory and Gaseous state 2. Chemical Thermodynamics - I <p>Practical-</p> <ol style="list-style-type: none"> i. Determination of pH of unknown solution (buffer), by color matching method. ii. Determination of heat of neutralization of a strong acid by a strong base. iii. Determination of heat of solute ion of oxalic acid from solubility measurement. 	<p>Theory-NIL Practical-NIL</p>
2nd Sem	<p>Theory-</p> <ol style="list-style-type: none"> 1. Chemical Thermodynamics – II 2. Chemical Kinetics <p>Practical -</p> <ol style="list-style-type: none"> i. Study of kinetics of acid-catalyzed hydrolysis of methyl acetate. ii. Study of kinetics of decomposition of H₂O₂. 	<p>Theory-NIL Practical- NIL</p>
3rdSem	<p>Theory-</p> <ol style="list-style-type: none"> 1. Transport processes 2. Application of Thermodynamics-I 3. Foundation of Quantum Mechanics <p>Practical-</p> <ol style="list-style-type: none"> i. Study of viscosity of unknown liquid (glycerol, sugar) with respect to water. ii. Determination of partition coefficient for the distribution of I₂ between water and CCl₄. iii. Determination of K_{eq} for KI + I₂ = KI₃, using partition coefficient between water and CCl₄. iv. Conductometric titration of an acid (strong, weak/ monobasic, dibasic) against strong base. v. Study of saponification reaction conductometrically. vi. Verification of Ostwald's dilution law and determination of K_a of weak acid. 	<p>Theory- (PCC-III)</p> <ol style="list-style-type: none"> 1. Chemical Energetics 2. Chemical Equilibrium 3. Ionic Equilibria <p>Practical (GE-III)</p> <ol style="list-style-type: none"> 1. Estimation of sodium carbonate and sodium hydrogen carbonate present in a mixture. 2. Estimation of oxalic acid by titrating it with KMnO₄. 3. Estimation of water of crystallization in Mohr's salt by titrating with KMnO₄. 4. Estimation of Fe (II) ions by titrating it with K₂Cr₂O₇. 5. Estimation of Cu (II) ions iodometrically using Na₂S₂O₃.

<p>4thSem</p>	<p>Theory-</p> <ol style="list-style-type: none"> 1. Application of Thermodynamics-II 2. Electrical Properties of molecules 3. Quantum Chemistry <p>.</p> <p>Practical-</p> <ol style="list-style-type: none"> i. Determination of solubility of sparingly soluble salt in water, in electrolyte with common ions and in neutral electrolyte (using common indicator). ii. Potentiometric titration of Mohr's salt solution against standard $K_2Cr_2O_7$-solution. iii. Determination of K_{sp} for $AgCl$ by potentiometric titration of $AgNO_3$ solution against standard KCl solution. iv. Effect of ionic strength on the rate of Persulphate –Iodide reaction. v. Study of phenol-water phase diagram. vi. pH-metric titration of acid (mono-and di-basic) against strong base. 	<p>Theory- (GE-IV)</p> <ol style="list-style-type: none"> 1. Kinetic Theory of Gases and Real gases 2. Liquids 3. Solids 4. Chemical Kinetics <p>Theory-(PCC-IV)</p> <ol style="list-style-type: none"> 1. Solutions 2. PhaseEquilibria 3. Conductance 4. Electromotive force <p>Practical: NIL</p>
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Department of chemistry
Lesson plan (CBCS curriculum)

Name: Dr. Bhaskar Chatterjee

Course: HONOURS

SEMESTER	Paper	Topics
1 st SEM	CC-2	<p>Theory- Stereochemistry-I : Bonding geometries of carbon compounds and representation of molecules; Concept of chirality and symmetry; Relative and absolute configuration; Optical activity of chiral compounds.</p> <p>Reactive intermediates: Carbocations (carbenium and carbonium ions), carbanions, carbon radicals, carbenes, benzyne, nitrenes</p> <p>Practical- Separation: Based upon solubility, by using common laboratory reagents like water (cold, hot), dil. HCl, dil. NaOH, dil. NaHCO₃, etc., of components of a binary solid mixture.</p> <p>Determination of boiling point: Determination of boiling point of common organic liquid compounds.</p> <p>Identification of a Pure Organic Compound by chemical test(s): Solid compounds; Liquid Compounds</p>
3 rd SEM	CC-7	<p>Theory- Carbonyl and Related Compounds: Addition to C=O; Exploitation of acidity of α-H of C=O; Nucleophilic addition to α,β-unsaturated carbonyl system; Substitution at sp² carbon (C=O system); Elementary ideas of Green Chemistry</p> <p>Practical- Qualitative Analysis of Single Solid Organic Compounds: 1. Detection of special elements (N, S, Cl, Br) by Lassaigne's test 2. Solubility and classification (solvents: H₂O, 5% HCl, 5% NaOH and 5% NaHCO₃) 3. Detection of the following functional groups by systematic chemical tests: 4. Aromatic amino (Ar-NH₂), aromatic nitro (Ar-NO₂), amido (-CONH₂, including imide), phenolic hydroxyl (Ph-OH), carboxylic acid (-COOH), carbonyl (-CHO and >C=O)</p>

		<p>5. Melting point of the given compound</p> <p>6. Preparation, purification and melting point determination of a crystalline derivative of the given compound</p> <p>7. Identification of the compound through literature survey.</p>
5 th SEM	DSE-2	<p>Theory:</p> <p>Green Chemistry:</p> <p>Principles of Green Chemistry and Designing a Chemical synthesis: Designing a Green Synthesis using these principles; Atom Economy, calculation of atom economy of the rearrangement, addition, substitution and elimination reactions; Green solvents– supercritical fluids, water as a solvent for organic reactions, ionic liquids, fluorous biphasic solvent, PEG, solventless processes, immobilized solvents and how to compare greenness of solvents; Energy requirements for reactions – alternative sources of energy: use of microwaves and ultrasonic energy. Selection of starting materials; avoidance of unnecessary derivatization – careful use of blocking/protecting groups.</p> <p>Examples of Green Synthesis/ Reactions and some real world cases: Green Synthesis of the following compounds: adipic acid, catechol, disodium iminodiacetate (alternative to Strecker synthesis); Microwave assisted reactions in water; Ultrasound assisted reactions; Surfactants for carbon dioxide; Designing of Environmentally safe marine antifoulant; An efficient, green synthesis of a compostable and widely applicable plastic (poly lactic acid) made from corn.</p> <p>Practical:</p> <p>Green Chemistry: Preparation and characterization of nanoparticles of gold using tea leaves; Preparation of biodiesel from vegetable/ waste cooking oil; Benzoin condensation using Thiamine cation (anchored enzyme) as a catalyst instead of cyanide; Extraction of D-limonene from orange peel using liquid CO₂ prepared from dry ice; Solvent free, microwave assisted one pot synthesis of phthalocyanine complex of copper (II); Photoreduction of benzophenone to benzopinacol in the presence of sunlight.</p>

SEMESTER	Paper	Topics
2 nd SEM	CC-4	<p>Theory-</p> <p>Stereochemistry-II; Chirality arising out of stereoaxis- Allenes and Biphenyls; Concept of prostereoisomerism; Conformations of molecules.</p> <p>Substitution and Elimination Reactions: Free-radical substitution reaction; Nucleophilic substitution reactions; Elimination reactions</p> <p>Practical-</p> <p>Organic Preparations:</p> <ol style="list-style-type: none"> 1. Nitration of aromatic compounds 2. Condensation reactions

		<p>3. Hydrolysis of amides/imides/esters 4. Acetylation of phenols/aromatic amines 5. Benzoylation of phenols/aromatic amines 6. Side chain oxidation of aromatic compounds 7. Diazo coupling reactions of aromatic amines 8. Bromination of anilides using green approach (Bromate-Bromide method) 9. Redox reaction including solid-phase method 10. Green 'multi-component-coupling' reaction 11. Selective reduction of m-dinitrobenzene to m-nitroaniline</p>
4 th SEM	CC-10	<p>Theory: Rearrangements: Rearrangement to electron-deficient carbon; Rearrangement to electron-deficient nitrogen; Rearrangement to electron-deficient oxygen; Aromatic rearrangements; Migration from nitrogen to ring carbon; Rearrangement reactions by green approach. The Logic of Organic Synthesis: Retrosynthetic analysis; Strategy of ring synthesis; Asymmetric synthesis Practical: Estimation of glycine by Sørensen's formol method; Estimation of glucose by titration using Fehling's solution; Estimation of sucrose by titration using Fehling's solution; Estimation of vitamin-C (reduced); Estimation of aromatic amine (aniline) by bromination (Bromate-Bromide) method; Estimation of phenol by bromination (Bromate-Bromide) method; Estimation of formaldehyde (Formalin); Estimation of acetic acid in commercial vinegar; Estimation of urea (hypobromite method); Estimation of saponification value of oil/fat/ester</p>
	SEC-2	<p>Pharmaceutical Chemistry: Drugs & Pharmaceuticals: Drug discovery, design and development; Basic Retrosynthetic approach. Synthesis of representative drugs of different classes.</p>
6 th SEM	CC-14	<p>Theory: Cyclic Stereochemistry: Alicyclic compounds- Cyclohexane Pericyclic reactions: Mechanism, stereochemistry, regioselectivity in case of Electrocyclic reactions; Cycloaddition reactions; Sigmatropic reactions. Carbohydrates: Monosaccharides: Aldoses up to 6 carbons; Disaccharides; Polysaccharides. Practical: Chromatographic Separations, Spectroscopic Analysis of Organic Compounds</p>
	DSE-4	PROJECT WORK -Dissertation

Course: GE and PCC

SEMESTER	Paper	Topics
1 st SEM	GE-I and PCC-I	Theory: Stereochemistry, Nucleophilic Substitution and Elimination Reactions Practical: Qualitative Analysis of Single Solid Organic Compound(s) 1. Detection of special elements (N, Cl, and S) in organic compounds. 2. Solubility and Classification (solvents: H ₂ O, dil. HCl, dil. NaOH, dil. NaHCO ₃) 3. Detection of functional groups: Aromatic-NO ₂ , Aromatic-NH ₂ , -COOH, carbonyl, -OH (phenolic).
3 rd SEM	GE-III and PCC-III	GE-III Same as GE-1
5 th SEM	PCC-SEC-III	Theory: Analytical clinical Biochemistry: Proteins: Classification, biological importance; Primary and secondary and tertiary structures of proteins: α -helix and β -pleated sheets, Isolation, characterization, denaturation of proteins. Enzymes: Nomenclature, Characteristics (mention of Ribozymes), and Classification; Active site, Mechanism of enzyme action, Stereospecificity of enzymes, Coenzymes and cofactors, Enzyme inhibitors, Introduction to Biocatalysis: Importance in "Green Chemistry" and Chemical Industry.

SEMESTER	Paper	Topics
6 th SEM	PCC-DSE-2	Theory: Carbohydrates: classification and general properties; glucose and fructose: constitution; osazone formation; oxidation-reduction reactions; epimers of glucose, cyclic structures of glucose (determination of ring-size excluded); ascending (Kiliani – Fischer method) and descending (Ruff's and Wohl's methods) in monosaccharides, mutarotation. Drugs and Pharmaceuticals, Synthetic dyes.

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : Dr. Mausumi Roychowdhury Year : (2020-2021)

Semester	Honours	GE/PCC
I	<p>Theory- Bonding and Physical properties (valence bond theory, electronic displacements, MO theory, physical properties). General treatment of reaction mechanism-1(Mechanistic classification, reaction intermediates) Practical - 1. Separation of components of a binary solid mixture 2. Determination of boiling point 3. Identification of a pure organic compound by chemical tests</p>	<p>Theory- Fundamentals of organic chemistry, Alkanes, alkenes ,alkynes. Practical- Qualitative analysis of a single solid organic compound</p>
III	<p>Theory-Chemistry of alkenes and alkynes: (Addition to C=C: Addition to C≡C (in comparison to C=C),Electrophilic aromatic substitution, Nucleophilic aromatic substitution, Organometallics Practical - Qualitative Analysis of Single Solid Organic Compounds</p>	<p>GE Theory-Same as GE-1 GE Practical – Same as GE-1 PCC Theory-Aromatic Hydrocarbons, Aryl Halides, Organometallics Practical- Identification of a pure organic compound (Solid & Liquid sample)</p>
V	<p>Green Chemistry :- Theory - Principles of Green Chemistry and Designing a Chemical synthesis: Prevention of Waste, Atom Economy,Prevention/ minimization of hazardous products. waste or pollution prevention hierarchy. Catalysis and green chemistry, heterogeneous, homogeneous catalysis, biocatalysis, asymmetric catalysis, photocatalysis. Prevention of chemical accidents designing greener processes, Bhopal Gas Tragedy, Flixiborough accident, Greener approaches in Industrial Application, Future trends in green chemistry . Practical – Experiments related to Green Chemistry</p>	<p>Theory- Nil Practical -Nil PCC-SEC –Analytical Clinical Biochemistry : Carbohydrates, Lipids, Biochemistry of disease, Hands on practical</p>

Semester	Honours	GE/PCC
II	<p>Theory- General treatment of reaction mechanism-II Reaction Thermodynamics , Concept of organic acids and bases, Tautomerism, Reaction Kinetics Elimination reactions</p> <p>Practical - Preparion, Purification and Determination of melting point of organic compounds</p>	<p>Theory- Nil Practical -Nil</p>
IV	<p>Theory - Aliphatic and Aromatic Amines, Nitro compounds, Alkyl nitrile and Isonitrile, Diazonium salts and their related compounds, Organic Spectroscopy (UV, IR & NMR)</p> <p>Practical- Organic Quantitative Estimation SEC- Pharmaceutical Chemistry : Fermentation , Hands on Practical</p>	<p>Theory- Nil Practical –Nil PCC-SEC- Pharmaceutical Chemistry : Fermentation , Hands on Practical</p>
VI	<p>Theory - Polynuclear hydrocarbons (Naphthalene, Anthracene, Phenanthrene) and their derivatives, Heterocyclic compounds (Furan, Thiophene, Pyrrole, Pyridine, Quinoline, Isoquinoline, Indole), Amino acids, Peptides, Nucleic acids</p> <p>Practical –Column chromatographic separation, Paper chromatographic separation, TLC separation of a mixture containing 2/3 amino acids or a mixture of dyes, sugars etc</p>	<p>Theory- Carboxylic Acids and Their Derivatives, Amines and Diazonium Salts Practical – Nitration of aromatic compounds, Condensation reactions, Hydrolysis of amides, Acetylation and Benzoylation of aromatic amines</p>

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : PANKAJ SARKAR

SEM	HONOURS	GE / PCC
1st Sem	Theory: Inorganic Chemistry-Extra nuclear structure of atom Practical: Inorganic Chemistry	Theory: Inorganic Chemistry-Chemical periodicity, Acids and Bases Practical: Inorganic Chemistry
3rd Sem	Theory: Inorganic Chemistry- Chemical Bonding-I, Metal extraction and purification : Basic Metallurgy Practical: Inorganic Chemistry SEC-Introduction, Complexometry, Soil analysis, Analysis of water	Theory: NA Practical:NA SEC: Introduction, Complexometry, Soil analysis, Analysis of water
5th Sem	Theory: Inorganic Chemistry- Magnetochemistry, Chemistry of d and f-block elements Practical: Inorganic Chemistry DSE: Silicate industries, Fertilizers, Surface coatings	Theory: DSE: Chemical analysis and Environmental Chemistry Practical: Analytical and Environmental Chemistry

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : PANKAJ SARKAR

SEM	HONOURS	GE / PCC
2 nd Sem	Theory: Inorganic Chemistry- Acid-Base Concepts and solvents Practical: Inorganic Chemistry	Theory: Inorganic Chemistry- Comparative study of p-block elements Practical: Physical Chemistry
4th Sem	Theory: Inorganic Chemistry-Chemistry of p-block elements, Co-ordination Chemistry-I Practical: Inorganic Chemistry-	Theory: Inorganic Chemistry-Co-ordination Chemistry Practical: Inorganic preparation and Physical Chemistry
6th Sem	Theory-Organometallic chemistry and catalysis, Bio-inorganic chemistry Practical-Inorganic chemistry	Theory-Fermentation chemicals, Fats and oils, soaps and detergents, pesticides, food additives Practical

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : MONISHA DAS

SEM	HONOURS	GE / PCC
1st Sem	Theory-Inorganic chemistry--(1A) : periodic properties, Practical-NA	Theory: Inorganic Chemistry - I : Atomic structure , Redox reactions Practical- Inorganic - I
3rd Sem	Theory- Inorganic chemistry - II : Chemical bonding-II Physical Chemistry - II : Application of Thermodynamics - I SEC - Analysis of food products, Chromatography, Ion-exchange, Analysis of cosmetics, Suggested applications, Suggested Instrumental demonstrations Practical-NA	Theory -PHYSICAL CHEMISTRY SEC-1 - Analysis of food products, Chromatography, Ion-exchange, Analysis of cosmetics, Suggested applications, Suggested Instrumental demonstrations Practical: Physical Chemistry - II
5th Sem	Theory - Inorganic chemistry-IV : Coordination Chemistry-II, Reaction Kinetics and Mechanism. Physical Chemistry - IV : Surface phenomenon Practical - NA DSE - Chemical explosives, Catalysis	Theory: DSE: Chemical analysis and Environmental Chemistry Practical: Analytical and Environmental Chemistry

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : MONISHA DAS

SEM	HONOURS	GE / PCC
2nd Sem	Theory- Inorganic chemistry-1B: Redox reaction and precipitation reation Practical - Inorganic chemistry - 1B	Theory : Chemical bonding and molecular structure Practical- Inorganic Chemistry - II
4th Sem	Theory - Inorganic chemistry -III : Radioactivity and nuclear chemistry , Chemistry of s block and p block element Practical-NA	Theory : Inorganic Chemistry - III : Crystal field theory , Transition elements Practical - Inorganic Chemistry
6th Sem	Theory: Molecular symmetry and point group, Bio-inorganic chemistry practical: NA	Theory: Polymers ,Paints ,Varnishes Practical

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : Dr. Soma Seth (Duley)

SEM	HONOURS	GE / PCC
1st Sem	Theory- 1.Kinetic Theory and Gaseous state 2.Chemical Thermodynamics – I Practical- i. Determination of pH of unknown solution (buffer), by color matching method. ii. Determination of heat of neutralization of a strong acid by a strong base. iii. Determination of heat of solute ion of oxalic acid from solubility measurement.	Theory-NA Practical-NA
3rdSem	Theory- 1. Transport Process 2. Applications of Thermodynamics –I 3. Foundation of Quantum Mechanics Practical -. i. Study of Viscosity of unknown liquid (glycerol, sugar) with respect to water ii. Determination of partition coefficient for the distribution of I ₂ between water and CCl ₄ . iii. Determination of K _{eq} for KI + I ₂ = KI ₃ , using partition coefficient between water and CCl ₄ . Iv. Conductometric titration of an acid (strong, weak/ monobasic, dibasic) against strong base. v. Study of saponification reaction conductometrically. vi. Verification of Ostwald's dilution law and determination of K _a of weak acid.	Theory : NA Practical: NA
5th Sem	Theory-NA Practical-NA	Theory-NA Practical:NA

SEM	HONOURS	GE
2 nd Sem	<p>Theory- 2. Chemical kinetics</p> <p>Practical- i. Study of kinetics of acid-catalyzed hydrolysis of methyl acetate. ii. Study of kinetics of decomposition of H₂O₂.</p>	<p>GE-II: Theory-1. Kinetic Theory of Gases and Real gases 2. Liquids 3. Solids 4. Chemical Kinetics</p> <p>Practical- 1. Surface tension measurement (use of organic solvents excluded) a. Determination of the surface tension of a liquid or a dilute solution using a Stalagmometer b. Study of the variation of surface tension of a detergent solution with concentration 2. Viscosity measurement (use of organic solvents excluded) a. Determination of the relative and absolute viscosity of a liquid or dilute solution using an Ostwald's viscometer b. Study of the variation of viscosity of an aqueous solution with concentration of solute 3. Study the kinetics of the following reactions a. Initial rate method: Iodide-persulphate reaction b. Integrated rate method: i. Acid hydrolysis of methyl acetate with hydrochloric acid ii. Compare the strengths of HCl and H₂SO₄ by studying kinetics of hydrolysis of methyl acetate</p>
4thSem	<p>Theory- 3. Quantum Chemistry</p> <p>Practical -. i. Determination of solubility of sparingly soluble salt in water, in electrolyte with common ions and in neutral electrolyte (using common indicator). ii. Potentiometric titration of Mohr's salt solution against standard K₂Cr₂O₇ solution. iii. Determination of K_{sp} for AgCl by potentiometric titration of AgNO₃ solution against standard KCl solution. iv. Effect of ionic strength on the rate of Persulphate –Iodide reaction. v. Study of phenol-water phase diagram.</p>	<p>PCC-IV: Theory-1. Solutions 2. Phase Equilibria 3. Conductance 4. Electromotive force</p> <p>Practical- 1. Distribution Law (Any one) a. Study of the equilibrium of one of the following reactions by the distribution method: $I_2(aq) + I^-(aq) = I_3^-(aq)$ 2. Conductance a. Determination of dissociation constant of a weak acid (cell constant, equivalent conductance are also determined) b. Perform the following conductometric</p>

	vi. pH-metric titration of acid (mono- and di-basic) against strong base.	titrations: (Any one) i. Strong acid vs. strong base ii. Weak acid vs. strong base 3. Potentiometry a. Perform the following potentiometric titrations: i. Weak acid vs. strong base ii. Potassium dichromate vs. Mohr's salt
6thSem	Theory- 1. Crsytal Structure 2. Statistical Thermodynamics Practical- Computer Programming based on numerical methods for: i. Roots of equations: (e.g. volume of van der Waals gas and comparison with ideal gas, pH of a ii. Numerical differentiation (e.g., change in pressure for small change in volume of a van der Waals gas, potentiometric titrations). iii. Numerical integration (e.g. entropy/enthalpy change from heat capacity data), probability distributions (gas kinetic theory) and mean values. iv. Simple exercises using molecular visualization software. weak acid).	Theory-NA Practical-NA

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher: Dr. Sandip Saha

Session: July-Dec 2021

SEM	HONOURS	GE & PCC
1st Sem	<p>Theory-</p> <p>Practical-</p> <p>a) Determination of pH of the unknown solution (buffer), by the color-matching method.</p> <p>b) Determination of heat of neutralization of a strong acid by a strong base.</p> <p>c) Determination of heat of solution of oxalic acid from solubility measurement.</p>	<p>Theory-</p> <p>Practical-</p>
3rd Sem	<p>Theory-</p> <p>A. Transport processes B. Applications of Thermodynamics –I C. Foundation of Quantum Mechanics</p> <p>Practical -</p> <p>a) Study of viscosity of unknown liquid (glycerol, sugar) with respect to water.</p> <p>b) Determination of partition coefficient for the distribution of I₂ between water and CCl₄.</p> <p>c) Determination of K_{eq} for KI + I₂= KI₃, using partition coefficient between water and CCl₄.</p> <p>d) Conductometric titration of an acid (strong, weak/ monobasic, dibasic) against a strong base.</p> <p>e) Study of saponification reaction conductometrically.</p> <p>f) Verify Ostwald's dilution law and determination of K_a of a weak acid.</p>	<p>GE-3 is the same as GE-1 Course</p> <p>Practical (GE-III)</p> <p>PCC: Theory-</p> <p>A. Chemical Energetics (12L) B. Chemical Equilibrium C. Ionic Equilibria</p> <p>Practical-</p> <p style="padding-left: 20px;">A. Thermochemistry</p> <p>a) Determination of heat capacity of a calorimeter for different volumes</p> <p>b) Determination of enthalpy of neutralization of hydrochloric acid with sodium hydroxide</p> <p>c) Determination of enthalpy of ionization of acetic acid</p> <p>d) Determination of enthalpy of hydration of copper sulfate</p> <p style="padding-left: 20px;">B. Ionic Equilibria</p> <p>a) Measurement of pH of different solutions like aerated drinks, fruit juices, shampoos and soaps (use dilute solutions of soaps and shampoos to prevent damage to the glass electrode) using pH meter and compare it with the indicator method</p> <p>b) Preparation of buffer solutions and find the pH of an unknown buffer solution by color matching method (using following buffers)</p>

		<p>a. Sodium acetate-acetic acid</p> <p>b. Ammonium chloride-ammonium hydroxide</p> <p>3. Study of the solubility of benzoic acid in water.</p>
5th Sem	<p>Theory-</p> <p>A. Molecular Spectroscopy 24 L</p> <p>B. Photochemistry</p> <p>C. Surface phenomenon</p> <p>Practical-</p> <p>a) Study of viscosity of unknown liquid (glycerol, sugar) with respect to water.</p> <p>b) Determination of partition coefficient for the distribution of I₂ between water and CCl₄.</p> <p>c) Determination of K_{eq} for KI + I₂ = KI₃, using partition coefficient between water and CCl₄.</p> <p>d) Conductometric titration of an acid (strong, weak/ monobasic, dibasic) against a strong base.</p> <p>e) Study of a saponification reaction conductometrically.</p> <p>f) Verification of Ostwald's dilution law and determination of K_a of a weak acid.</p>	<p>Theory-</p> <p>Practical</p>

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher: Dr. Sandip Saha

Session: January - June 2022

SEM	HONOURS	GE & PCC
II	<p>Theory- 1. Chemical Thermodynamics – II 2. Chemical Kinetics</p> <p>Practical - 1) Study of kinetics of acid-catalyzed hydrolysis of methyl acetate. 2) Study of kinetics of decomposition of H₂O₂.</p>	<p>Theory- (GE-II) 1. Kinetic Theory of Gases and Real gases 2. Liquids 3. Solids 4. Chemical Kinetics</p> <p>Practical- No</p>
IV	<p>Theory- 1. Application of Thermodynamics-II 2. Electrical Properties of molecules 3. Quantum Chemistry</p> <p>Practical- i) Determination of solubility of sparingly soluble salt in water, in electrolytes with common ions, and in neutral electrolytes (using a common indicator). ii) Potentiometric titration of Mohr's salt solution against standard K₂Cr₂O₇-solution. iii) Determination of K_{sp} for AgCl by potentiometric titration of AgNO₃ solution against standard KCl solution. i). Effect of ionic strength on the rate of Persulphate –Iodide reaction. v) Study of the phenol-water phase diagram. vi) pH-metric titration of acid (mono-and di-basic) against a strong base.</p>	<p>Theory- (GE-IV) 1. Kinetic Theory of Gases and Real gases 2. Liquids 3. Solids 4. Chemical Kinetics</p> <p>Practical- (1) Surface tension measurement (use of organic solvents excluded) a) Determination of the surface tension of a liquid or a dilute solution using a Stalagmometer b) Study of the variation of surface tension of a detergent solution with concentration (2) Viscosity measurement (use of organic solvents excluded) a) Determination of the relative and absolute viscosity of a liquid or dilute solution using an Ostwald's viscometer b) Study of the variation of viscosity of an aqueous solution with a concentration of solute</p>

		<p>(3) Study the kinetics of the following reactions</p> <p>a) Initial rate method: Iodide-persulphate reaction</p> <p>b) Integrated rate method:</p> <p>i) Acid hydrolysis of methyl acetate with hydrochloric acid</p> <p>ii) Compare the strengths of HCl and H₂SO₄ by studying the kinetics of hydrolysis of methyl acetate</p> <p>Theory-(PCC-IV)</p> <ol style="list-style-type: none"> Solutions Phase Equilibria Conductance Electromotive force <p>Practical- (Minimum six experiments to complete)</p> <p>(1) Distribution Law (Any one)</p> <p>a. Study of the equilibrium of one of the following reactions by the distribution method: $I_2(aq) + I^-(aq) = I_3^-(aq)$</p> <p>(2) Conductance</p> <p>a) Determination of dissociation constant of a weak acid (cell constant, equivalent conductance are also determined)</p> <p>b) Perform the following conductometric titrations: (Any one)</p> <ol style="list-style-type: none"> Strong acid vs. strong base Weak acid vs. strong base <p>(3) Potentiometry</p> <p>a) Perform the following potentiometric titrations:</p> <ol style="list-style-type: none"> Weak acid vs. strong base Potassium dichromate vs. Mohr's salt
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VI	<p>Theory- 1. Crystal Structure 2. Special selected topics</p> <p>Practical- Computer Programming based on numerical methods for i. Roots of equations: (e.g. volume of van der Waals gas and comparison with an ideal gas, pH of a weak acid). ii. Numerical differentiation (e.g., change in pressure for small change in volume of a van der Waals gas, potentiometric titrations). iii. Numerical integration (e.g. entropy/enthalpy change from heat capacity data), probability distributions (gas kinetic theory) and mean values. iv. Simple exercises using molecular visualization software.</p>	<p>Theory- No Practical-No</p>
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SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : Dr. Soma Seth (Duley)

SEM	HONOURS	GE / PCC
1st Sem	Theory- 1.Kinetic Theory and Gaseous state 2.Chemical Thermodynamics – I Practical- i. Determination of pH of unknown solution (buffer), by color matching method. ii. Determination of heat of neutralization of a strong acid by a strong base. iii. Determination of heat of solute ion of oxalic acid from solubility measurement.	Theory-NA Practical-NA
3rdSem	Theory- 1. Transport Process 2. Applications of Thermodynamics –I 3. Foundation of Quantum Mechanics Practical -. i. Study of Viscosity of unknown liquid (glycerol, sugar) with respect to water ii. Determination of partition coefficient for the distribution of I ₂ between water and CCl ₄ . iii. Determination of K _{eq} for KI + I ₂ = KI ₃ , using partition coefficient between water and CCl ₄ . Iv. Conductometric titration of an acid (strong, weak/ monobasic, dibasic) against strong base. v. Study of saponification reaction conductometrically. vi. Verification of Ostwald's dilution law and determination of K _a of weak acid.	Theory : NA Practical: NA
5th Sem	Theory-NA Practical-NA	Theory-NA Practical:NA

SEM	HONOURS	GE
2 nd Sem	<p>Theory- 2. Chemical kinetics</p> <p>Practical- i. Study of kinetics of acid-catalyzed hydrolysis of methyl acetate. ii. Study of kinetics of decomposition of H₂O₂.</p>	<p>GE-II: Theory-1. Kinetic Theory of Gases and Real gases 2. Liquids 3. Solids 4. Chemical Kinetics</p> <p>Practical- 1. Surface tension measurement (use of organic solvents excluded) a. Determination of the surface tension of a liquid or a dilute solution using a Stalagmometer b. Study of the variation of surface tension of a detergent solution with concentration 2. Viscosity measurement (use of organic solvents excluded) a. Determination of the relative and absolute viscosity of a liquid or dilute solution using an Ostwald's viscometer b. Study of the variation of viscosity of an aqueous solution with concentration of solute 3. Study the kinetics of the following reactions a. Initial rate method: Iodide-persulphate reaction b. Integrated rate method: i. Acid hydrolysis of methyl acetate with hydrochloric acid ii. Compare the strengths of HCl and H₂SO₄ by studying kinetics of hydrolysis of methyl acetate</p>
4thSem	<p>Theory- 3. Quantum Chemistry</p> <p>Practical -. i. Determination of solubility of sparingly soluble salt in water, in electrolyte with common ions and in neutral electrolyte (using common indicator). ii. Potentiometric titration of Mohr's salt solution against standard K₂Cr₂O₇ solution. iii. Determination of K_{sp} for AgCl by potentiometric titration of AgNO₃ solution against standard KCl solution. iv. Effect of ionic strength on the rate of Persulphate –Iodide reaction. v. Study of phenol-water phase diagram.</p>	<p>PCC-IV: Theory-1. Solutions 2. Phase Equilibria 3. Conductance 4. Electromotive force</p> <p>Practical- 1. Distribution Law (Any one) a. Study of the equilibrium of one of the following reactions by the distribution method: $I_2(aq) + I^-(aq) = I_3^-(aq)$ 2. Conductance a. Determination of dissociation constant of a weak acid (cell constant, equivalent conductance are also determined) b. Perform the following conductometric</p>

	vi. pH-metric titration of acid (mono- and di-basic) against strong base.	titrations: (Any one) i. Strong acid vs. strong base ii. Weak acid vs. strong base 3. Potentiometry a. Perform the following potentiometric titrations: i. Weak acid vs. strong base ii. Potassium dichromate vs. Mohr's salt
6thSem	Theory- 1. Crsytal Structure 2. Statistical Thermodynamics Practical- Computer Programming based on numerical methods for: i. Roots of equations: (e.g. volume of van der Waals gas and comparison with ideal gas, pH of a ii. Numerical differentiation (e.g., change in pressure for small change in volume of a van der Waals gas, potentiometric titrations). iii. Numerical integration (e.g. entropy/enthalpy change from heat capacity data), probability distributions (gas kinetic theory) and mean values. iv. Simple exercises using molecular visualization software. weak acid).	Theory-NA Practical-NA

SEM	HONOURS	GE / PCC
1st Sem	Theory-Inorganic chemistry--(1A) : periodic properties, Practical-NA	Theory: Inorganic Chemistry - I : Atomic structure , Redox reactions Practical- Inorganic - I
3rd Sem	Theory- Inorganic chemistry - II : Chemical bonding-II Physical Chemistry - II : Application of Thermodynamics - I SEC - Analysis of food products, Chromatography, Ion-exchange, Analysis of cosmetics, Suggested applications, Suggested Instrumental demonstrations Practical-NA	Theory -PHYSICAL CHEMISTRY SEC-1 - Analysis of food products, Chromatography, Ion-exchange, Analysis of cosmetics, Suggested applications, Suggested Instrumental demonstrations Practical: Physical Chemistry - II
5th Sem	Theory - Inorganic chemistry-IV : Coordination Chemistry-II, Reaction Kinetics and Mechanism. Physical Chemistry - IV : Surface phenomenon Practical - NA DSE - Chemical explosives, Catalysis	Theory: DSE: Chemical analysis and Environmental Chemistry Practical: Analytical and Environmental Chemistry

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : MONISHA DAS

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : MONISHA DAS

SEM	HONOURS	GE / PCC
2nd Sem	Theory- Inorganic chemistry-1B: Redox reaction and precipitation reaction	Theory : Chemical bonding and molecular structure

	Practical - Inorganic chemistry - 1B	Practical- Inorganic Chemistry - II
4th Sem	Theory - Inorganic chemistry -III : Radioactivity and nuclear chemistry , Chemistry of s block and p block element Practical-NA	Theory : Inorganic Chemistry - III : Crystal field theory , Transition elements Practical - Inorganic Chemistry
6th Sem	Theory: Molecular symmetry and point group, Bio-inorganic chemistry practical: NA	Theory: Polymers ,Paints ,Varnishes ,Synthetic dyes, Drugs and pharmaceuticals Practical

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : PANKAJ SARKAR

SEM	HONOURS	GE / PCC
1st Sem	Theory: Inorganic Chemistry-Extra nuclear structure of atom Practical: Inorganic Chemistry	Theory: Inorganic Chemistry-Chemical periodicity, Acids and Bases Practical: Inorganic Chemistry
3rd Sem	Theory: Inorganic Chemistry- Chemical Bonding-I, Metal extraction and purification : Basic Metallurgy Practical: Inorganic Chemistry SEC-.Introduction, Complexometry, Soil analysis, Analysis of water	Theory: NA Practical:NA SEC: Introduction, Complexometry, Soil analysis, Analysis of water
5th Sem	Theory: Inorganic Chemistry- Magnetochemistry, Chemistry of d and f-block elements Practical: Inorganic Chemistry DSE: Silicate industries, Fertilizers, Surface coatings	Theory: DSE: Chemical analysis and Environmental Chemistry Practical: Analytical and Environmental Chemistry

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : PANKAJ SARKAR

SEM	HONOURS	GE / PCC
2 nd Sem	Theory: Inorganic Chemistry- Acid-Base Concepts and solvents Practical: Inorganic Chemistry	Theory: Inorganic Chemistry- Comparative study of p-block elements Practical: Physical Chemistry
4th Sem	Theory: Inorganic Chemistry-Chemistry of p-block elements, Co-ordination Chemistry-I Practical: Inorganic Chemistry-	Theory: Inorganic Chemistry-Co-ordination Chemistry Practical: Inorganic preparation and Physical Chemistry
6th Sem	Theory-Organometallic chemistry and catalysis, Bio-inorganic chemistry Practical-Inorganic chemistry	Theory-Fermentation chemicals, Fats and oils, soaps and detergents, pesticides, food additives Practical

Department of chemistry
Lesson plan (CBCS curriculum)

Name: Dr. Bhaskar Chatterjee

Course: HONOURS

SEMESTER	Paper	Topics
1 st SEM	CC-2	<p>Theory- Stereochemistry-I : Bonding geometries of carbon compounds and representation of molecules; Concept of chirality and symmetry; Relative and absolute configuration; Optical activity of chiral compounds.</p> <p>Reactive intermediates: Carbocations (carbenium and carbonium ions), carbanions, carbon radicals, carbenes, benzyne, nitrenes</p> <p>Practical- Separation: Based upon solubility, by using common laboratory reagents like water (cold, hot), dil. HCl, dil. NaOH, dil. NaHCO₃, etc., of components of a binary solid mixture.</p> <p>Determination of boiling point: Determination of boiling point of common organic liquid compounds.</p> <p>Identification of a Pure Organic Compound by chemical test(s): Solid compounds; Liquid Compounds</p>
3 rd SEM	CC-7	<p>Theory- Carbonyl and Related Compounds: Addition to C=O; Exploitation of acidity of α-H of C=O; Nucleophilic addition to α,β-unsaturated carbonyl system; Substitution at sp² carbon (C=O system); Elementary ideas of Green Chemistry</p> <p>Practical- Qualitative Analysis of Single Solid Organic Compounds:</p> <ol style="list-style-type: none"> 1. Detection of special elements (N, S, Cl, Br) by Lassaigne's test 2. Solubility and classification (solvents: H₂O, 5% HCl, 5% NaOH and 5% NaHCO₃) 3. Detection of the following functional groups by systematic chemical tests: 4. Aromatic amino (Ar-NH₂), aromatic nitro (Ar-NO₂), amido (-CONH₂, including imide), phenolic hydroxyl (Ph-OH), carboxylic acid (-COOH), carbonyl (-CHO and >C=O)

		<p>5. Melting point of the given compound</p> <p>6. Preparation, purification and melting point determination of a crystalline derivative of the given compound</p> <p>7. Identification of the compound through literature survey.</p>
5 th SEM	DSE-2	<p>Theory:</p> <p>Green Chemistry:</p> <p>Principles of Green Chemistry and Designing a Chemical synthesis: Designing a Green Synthesis using these principles; Atom Economy, calculation of atom economy of the rearrangement, addition, substitution and elimination reactions; Green solvents– supercritical fluids, water as a solvent for organic reactions, ionic liquids, fluorous biphasic solvent, PEG, solventless processes, immobilized solvents and how to compare greenness of solvents; Energy requirements for reactions – alternative sources of energy: use of microwaves and ultrasonic energy. Selection of starting materials; avoidance of unnecessary derivatization – careful use of blocking/protecting groups.</p> <p>Examples of Green Synthesis/ Reactions and some real world cases: Green Synthesis of the following compounds: adipic acid, catechol, disodium iminodiacetate (alternative to Strecker synthesis); Microwave assisted reactions in water; Ultrasound assisted reactions; Surfactants for carbon dioxide; Designing of Environmentally safe marine antifoulant; An efficient, green synthesis of a compostable and widely applicable plastic (poly lactic acid) made from corn.</p> <p>Practical:</p> <p>Green Chemistry: Preparation and characterization of nanoparticles of gold using tea leaves; Preparation of biodiesel from vegetable/ waste cooking oil; Benzoin condensation using Thiamine cation (anchored enzyme) as a catalyst instead of cyanide; Extraction of D-limonene from orange peel using liquid CO₂ prepared from dry ice; Solvent free, microwave assisted one pot synthesis of phthalocyanine complex of copper (II); Photoreduction of benzophenone to benzopinacol in the presence of sunlight.</p>

SEMESTER	Paper	Topics
2 nd SEM	CC-4	<p>Theory-</p> <p>Stereochemistry-II; Chirality arising out of stereoaxis- Allenes and Biphenyls; Concept of prostereoisomerism; Conformations of molecules.</p> <p>Substitution and Elimination Reactions: Free-radical substitution reaction; Nucleophilic substitution reactions; Elimination reactions</p> <p>Practical-</p> <p>Organic Preparations:</p> <ol style="list-style-type: none"> 1. Nitration of aromatic compounds 2. Condensation reactions

		<p>3. Hydrolysis of amides/imides/esters 4. Acetylation of phenols/aromatic amines 5. Benzoylation of phenols/aromatic amines 6. Side chain oxidation of aromatic compounds 7. Diazo coupling reactions of aromatic amines 8. Bromination of anilides using green approach (Bromate-Bromide method) 9. Redox reaction including solid-phase method 10. Green 'multi-component-coupling' reaction 11. Selective reduction of m-dinitrobenzene to m-nitroaniline</p>
4 th SEM	CC-10	<p>Theory: Rearrangements: Rearrangement to electron-deficient carbon; Rearrangement to electron-deficient nitrogen; Rearrangement to electron-deficient oxygen; Aromatic rearrangements; Migration from nitrogen to ring carbon; Rearrangement reactions by green approach. The Logic of Organic Synthesis: Retrosynthetic analysis; Strategy of ring synthesis; Asymmetric synthesis Practical: Estimation of glycine by Sørensen's formol method; Estimation of glucose by titration using Fehling's solution; Estimation of sucrose by titration using Fehling's solution; Estimation of vitamin-C (reduced); Estimation of aromatic amine (aniline) by bromination (Bromate-Bromide) method; Estimation of phenol by bromination (Bromate-Bromide) method; Estimation of formaldehyde (Formalin); Estimation of acetic acid in commercial vinegar; Estimation of urea (hypobromite method); Estimation of saponification value of oil/fat/ester</p>
	SEC-2	<p>Pharmaceutical Chemistry: Drugs & Pharmaceuticals: Drug discovery, design and development; Basic Retrosynthetic approach. Synthesis of representative drugs of different classes.</p>
6 th SEM	CC-14	<p>Theory: Cyclic Stereochemistry: Alicyclic compounds- Cyclohexane Pericyclic reactions: Mechanism, stereochemistry, regioselectivity in case of Electrocyclic reactions; Cycloaddition reactions; Sigmatropic reactions. Carbohydrates: Monosaccharides: Aldoses up to 6 carbons; Disaccharides; Polysaccharides. Practical: Chromatographic Separations, Spectroscopic Analysis of Organic Compounds</p>
	DSE-4	PROJECT WORK -Dissertation

Course: GE and PCC

SEMESTER	Paper	Topics
1 st SEM	GE-I and PCC-I	Theory: Stereochemistry, Nucleophilic Substitution and Elimination Reactions Practical: Qualitative Analysis of Single Solid Organic Compound(s) 1. Detection of special elements (N, Cl, and S) in organic compounds. 2. Solubility and Classification (solvents: H ₂ O, dil. HCl, dil. NaOH, dil. NaHCO ₃) 3. Detection of functional groups: Aromatic-NO ₂ , Aromatic-NH ₂ , -COOH, carbonyl, -OH (phenolic).
3 rd SEM	GE-III and PCC-III	GE-III Same as GE-1
5 th SEM	PCC-SEC-III	Theory: Analytical clinical Biochemistry: Proteins: Classification, biological importance; Primary and secondary and tertiary structures of proteins: α -helix and β -pleated sheets, Isolation, characterization, denaturation of proteins. Enzymes: Nomenclature, Characteristics (mention of Ribozymes), and Classification; Active site, Mechanism of enzyme action, Stereospecificity of enzymes, Coenzymes and cofactors, Enzyme inhibitors, Introduction to Biocatalysis: Importance in "Green Chemistry" and Chemical Industry.

SEMESTER	Paper	Topics
6 th SEM	PCC-DSE-2	Theory: Carbohydrates: classification and general properties; glucose and fructose: constitution; osazone formation; oxidation-reduction reactions; epimers of glucose, cyclic structures of glucose (determination of ring-size excluded); ascending (Kiliani – Fischer method) and descending (Ruff's and Wohl's methods) in monosaccharides, mutarotation.

SYLLABUS MODULARISATION (Sub: Chemistry Hons and General)

Name of teacher : Dr. Mausumi Roychowdhury Year : (2020-2021)

Semester	Honours	GE/PCC
I	<p>Theory- Bonding and Physical properties (valence bond theory, electronic displacements, MO theory, physical properties). General treatment of reaction mechanism-1(Mechanistic classification, reaction intermediates) Practical - 1. Separation of components of a binary solid mixture 2. Determination of boiling point 3. Identification of a pure organic compound by chemical tests</p>	<p>Theory- Fundamentals of organic chemistry, Alkanes, alkenes ,alkynes. Practical- Qualitative analysis of a single solid organic compound</p>
III	<p>Theory-Chemistry of alkenes and alkynes: (Addition to C=C: Addition to C≡C (in comparison to C=C),Electrophilic aromatic substitution, Nucleophilic aromatic substitution, Organometallics Practical - Qualitative Analysis of Single Solid Organic Compounds</p>	<p>GE Theory-Same as GE-1 GE Practical – Same as GE-1 PCC Theory-Aromatic Hydrocarbons, Aryl Halides, Organometallics Practical- Identification of a pure organic compound (Solid & Liquid sample)</p>
V	<p>Green Chemistry :- Theory - Principles of Green Chemistry and Designing a Chemical synthesis: Prevention of Waste, Atom Economy,Prevention/ minimization of hazardous products. waste or pollution prevention hierarchy. Catalysis and green chemistry, heterogeneous, homogeneous catalysis, biocatalysis, asymmetric catalysis, photocatalysis. Prevention of chemical accidents designing greener processes, Bhopal Gas Tragedy, Flixiborough accident, Greener approaches in Industrial Application, Future trends in green chemistry . Practical – Experiments related to Green Chemistry</p>	<p>Theory- Nil Practical -Nil PCC-SEC –Analytical Clinical Biochemistry : Carbohydrates, Lipids, Biochemistry of disease, Hands on practical</p>

Semester	Honours	GE/PCC
II	<p>Theory- General treatment of reaction mechanism-II Reaction Thermodynamics , Concept of organic acids and bases, Tautomerism, Reaction Kinetics Elimination reactions</p> <p>Practical - Preparion, Purification and Determination of melting point of organic compounds</p>	<p>Theory- Nil Practical -Nil</p>
IV	<p>Theory - Aliphatic and Aromatic Amines, Nitro compounds, Alkyl nitrile and Isonitrile, Diazonium salts and their related compounds, Organic Spectroscopy (UV, IR & NMR)</p> <p>Practical- Organic Quantitative Estimation SEC- Pharmaceutical Chemistry : Fermentation , Hands on Practical</p>	<p>Theory- Nil Practical –Nil PCC-SEC- Pharmaceutical Chemistry : Fermentation , Hands on Practical</p>
VI	<p>Theory - Polynuclear hydrocarbons (Naphthalene, Anthracene, Phenanthrene) and their derivatives, Heterocyclic compounds (Furan, Thiophene, Pyrrole, Pyridine, Quinoline, Isoquinoline, Indole), Amino acids, Peptides, Nucleic acids</p> <p>Practical –Column chromatographic separation, Paper chromatographic separation, TLC separation of a mixture containing 2/3 amino acids or a mixture of dyes, sugars etc</p>	<p>Theory- Carboxylic Acids and Their Derivatives, Amines and Diazonium Salts Practical – Nitration of aromatic compounds, Condensation reactions, Hydrolysis of amides, Acetylation and Benzoylation of aromatic amines</p>

Department of Computer Science

Lesson Plan 2019-20

Syllabus Modularization

1st Sem

Computer Fundamentals and Programming using C (UG-H-CC-L-101)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to Computer and Problem Solving, Hardware, Software	N. R	3
Generation of Computers, Introduction to Programming Languages, Problem Solving	N. R	6
Number Systems and Codes	N. R	12
Boolean Algebra	N. R	6
C Language preliminaries	N. R	3
Input-Output	N. R	1
Pre-processor commands:	N. R	1
Operators and expressions	N. R	2
Storage types	N. R	2
Functions	A.B	3
Arrays	A.B	4
String	A.B	4
Pointers	A.B	4
Structure	A.B	4
File Structure	A.B	6
File Handling	A.B	4

Programming using C Lab (UG-H-CC-P-101)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N. R	2
C Programming elements	N. R	2
C Preprocessor	N. R	2
Statements	N. R	4
Functions	A.B	8
Arrays	A.B	4
Pointers	A.B	4
User defined Data types	A.B	4
File Access	A.B	2

Digital System Design (UG-H-CC-L-102)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Combinational Circuits	N. R	25
Sequential Circuits	A.B	25
Data Converter	N. R	5
DTL and TTL NAND gate circuits and its operations, Fan in & Fan out, Noise margin, SSI, MSI, LSI, and VLSI classifications	A.B	5

Digital System Design Lab (UG-H-CC-P-102)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Combinational Circuits: 1) Implement Half Adder/Half Subtractor / Full Adder / Full Subtractor using Logic Gates. Realize a logic function using basic/universal gates in SOP and POS form. Study the functionalities of 7483 and design a BCD adder using 7483 or equivalent. 2) Design a 4 bit 2's complement adder – subtractor unit using 7483 or equivalent and XOR gates. 3) Design a circuit to convert BCD numbers to corresponding gray codes. 4) Design a 4:1 MUX using NAND gates. Study of 74153 and 74151. Design Full Adder / Subtractor using MUX. 5) Design a 2:4 decoder using NAND gates. Study of 74155 and 74138. Design Full Adder / Subtractor using decoders. 6) Design a parity generator/checker using basic gates. 7) Design magnitude comparator using basic/universal gates. Study of 7485. 8) Design a seven segment display unit.	N. R	16
Sequential Circuits: 1) Realize S-R, D, J-K and T flip-flop using basic gates. (Study the undefined state in S-R flip-flop). 2) Study the functional characteristic of IC 74194 with emphasis on timing diagram. 3) Design Asynchronous and Synchronous counters. (Mod-8, Mod-10 up counter) 4) Study the functional characteristics of RAM IC chip. Study of open collector and tri-state output. Horizontal expansion of RAM chips by cascading. (Use 74189, 7489, or any available chip).	A.B	8

2nd Sem

Programming in C++ (UG-H-CC-L-203)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to C and C++	N. R	3
Data Types, Variables, Constants, Operators and Basic I/O	N. R	5
Expressions, Conditional Statements and Iterative Statements	N. R	10
Functions and Arrays	N. R	8
Derived Data Types (Structures and Unions)	N. R	12
Memory Allocation in C++	N. R	4
File I/O, Preprocessor Directives	A.B	6
Using Classes in C++	A.B	4
Overview of Function Overloading and Operator Overloading	A.B	4
Inheritance, Polymorphism and Exception Handling	A.B	4

Programming in C++ Lab (UG-H-CC-P-203)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
WAP to print the sum and product of digits of an integer.	N. R	1
WAP to reverse a number.	N. R	1
WAP to compute the sum of the first n terms of the following series $S = 1 + 1/2 + 1/3 + 1/4 + \dots$	N. R	1
WAP to compute the sum of the first n terms of the following series $S = 1 - 2 + 3 - 4 + 5 - \dots$	N. R	1
Write a function that checks whether a given string is Palindrome or not. Use this function to find whether the string entered by user is Palindrome or not.	N. R	1
Write a function to find whether a given no. is prime or not. Use the same to generate the prime numbers less than 100.	N. R	1
WAP to compute the factors of a given number.	A.B	1
Write a macro that swaps two numbers. WAP to use it.	A.B	1
WAP to print a triangle of stars as follows (take number of lines from user): * *** ***** ***** *****	A.B	1

WAP to perform following actions on an array entered by the user: i) Print the even-valued elements ii) Print the odd-valued elements iii) Calculate and print the sum and average of the elements of array iv) Print the maximum and minimum element of array v) Remove the duplicates from the array vi) Print the array in reverse order The program should present a menu to the user and ask for one of the options. The menu should also include options to re-enter array and to quit the program.	A.B	5
WAP that prints a table indicating the number of occurrences of each alphabet in the text entered as command line arguments.	A.B	1
Write a program that swaps two numbers using pointers.	N. R	1
Write a program in which a function is passed address of two variables and then alter its contents.	N. R	1
Write a program which takes the radius of a circle as input from the user, passes it to another function that computes the area and the circumference of the circle and displays the value of area and circumference from the main() function.	N. R	1
Write a program to find sum of n elements entered by the user. To write this program, allocate memory dynamically using malloc() / calloc() functions or new operator.	N. R	1
Write a menu driven program to perform following operations on strings: a) Show address of each character in string b) Concatenate two strings without using strcat function. c) Concatenate two strings using strcat function. d) Compare two strings e) Calculate length of the string (use pointers) f) Convert all lowercase characters to uppercase g) Convert all uppercase characters to lowercase h) Calculate number of vowels i) Reverse the string	N. R	5
Given two ordered arrays of integers, write a program to merge the two-arrays to get an ordered array.	N. R	1
WAP to display Fibonacci series (i)using recursion, (ii) using iteration	A.B	1
WAP to calculate Factorial of a number (i)using recursion, (ii) using iteration	A.B	1
WAP to calculate GCD of two numbers (i) with recursion (ii) without recursion	A.B	1
Create Matrix class using templates. Write a menu-	A.B	4

driven program to perform following Matrix operations (2-D array implementation): a) Sum b) Difference c) Product d) Transpose		
Create the Person class. Create some objects of this class (by taking information from the user). Inherit the class Person to create two classes Teacher and Student class. Maintain the respective information in the classes and create, display and delete objects of these two classes (Use Runtime Polymorphism).	A.B	1
Create a class Triangle. Include overloaded functions for calculating area. Overload assignment operator and equality operator.	A.B	1
Create a class Box containing length, breath and height. Include following methods in it: a) Calculate surface Area b) Calculate Volume c) Increment, Overload ++ operator (both prefix & postfix) d) Decrement, Overload -- operator (both prefix & postfix) e) Overload operator == (to check equality of two boxes), as a friend function f) Overload Assignment operator g) Check if it is a Cube or cuboid Write a program which takes input from the user for length, breath and height to test the above class	A.B	1
Create a structure Student containing fields for Roll No., Name, Class, Year and Total Marks. Create 10 students and store them in a file.	A.B	1
Write a program to retrieve the student information from file created in previous question and print it in following format: Roll No. Name Marks	A.B	1
Copy the contents of one text file to another file, after removing all whitespaces.	A.B	1
Write a function that reverses the elements of an array in place. The function must accept only one pointer value and return void.	A.B	1

Computer System Architecture (UG-H-CC-L-204)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N. R	9
Data Representation and Basic Computer Arithmetic	N. R	12
Basic Computer Organization and Design	N. R	10
Central Processing Unit	A.B	9
Memory Organization	A.B	10
Input-Output Organization	A.B	10

N.R- Nimisha Ray

Lesson Plan 2020-21

Syllabus Modularization

1st Sem

Computer Fundamentals and Programming using C (UG-H-CC-L-101)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to Computer and Problem Solving, Hardware, Software	N. R	3
Generation of Computers, Introduction to Programming Languages, Problem Solving	N. R	6
Number Systems and Codes	N. R	12
Boolean Algebra	N. R	6
C Language preliminaries	N. R	3
Input-Output	N. R	1
Pre-processor commands:	N. R	1
Operators and expressions	N. R	2
Storage types	N. R	2
Functions	A.B	3
Arrays	A.B	4
String	A.B	4
Pointers	A.B	4
Structure	A.B	4
File Structure	A.B	6
File Handling	A.B	4

Programming using C Lab (UG-H-CC-P-101)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N.R	2
C Programming elements	N.R	2
C Preprocessor	N.R	2
Statements	N.R	4
Functions	A.B	8
Arrays	A.B	4
Pointers	A.B	4
User defined Data types	A.B	4

File Access	A.B	2
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Digital System Design (UG-H-CC-L-102)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Combinational Circuits	N. R	25
Sequential Circuits	A.B	25
Data Converter	N. R	5
DTL and TTL NAND gate circuits and its operations, Fan in & Fan out, Noise margin, SSI, MSI, LSI, and VLSI classifications	A.B	5

Digital System Design Lab (UG-H-CC-P-102)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Combinational Circuits: 1) Implement Half Adder/Half Subtractor / Full Adder / Full Subtractor using Logic Gates. Realize a logic function using basic/universal gates in SOP and POS form. Study the functionalities of 7483 and design a BCD adder using 7483 or equivalent. 2) Design a 4 bit 2's complement adder – subtractor unit using 7483 or equivalent and XOR gates. 3) Design a circuit to convert BCD numbers to corresponding gray codes. 4) Design a 4:1 MUX using NAND gates. Study of 74153 and 74151. Design Full Adder / Subtractor using MUX. 5) Design a 2:4 decoder using NAND gates. Study of 74155 and 74138. Design Full Adder / Subtractor using decoders. 6) Design a parity generator/checker using basic gates. 7) Design magnitude comparator using basic/universal gates. Study of 7485. 8) Design a seven segment display unit.	N. R	16
Sequential Circuits: 1) Realize S-R, D, J-K and T flip-flop using basic gates. (Study the undefined state in S-R flip-flop). 2) Study the functional characteristic of IC 74194 with emphasis on timing diagram. 3) Design Asynchronous and Synchronous counters. (Mod-8, Mod-10 up counter) 4) Study the functional characteristics of RAM IC chip. Study of open collector and tri-state output. Horizontal expansion of RAM chips by cascading. (Use 74189, 7489, or any available chip).	A.B	8

2nd Sem

Programming in C++ (UG-H-CC-L-203)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to C and C++	N.R	3
Data Types, Variables, Constants, Operators and Basic I/O	N.R	5
Expressions, Conditional Statements and Iterative Statements	N.R	10
Functions and Arrays	N.R	8
Derived Data Types (Structures and Unions)	N.R	12
Memory Allocation in C++	A.B	4
File I/O, Preprocessor Directives	A.B	6
Using Classes in C++	A.B	4
Overview of Function Overloading and Operator Overloading	A.B	4
Inheritance, Polymorphism and Exception Handling	A.B	4

Programming in C++ Lab (UG-H-CC-P-203)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
WAP to print the sum and product of digits of an integer.	N.R	1
WAP to reverse a number.	N.R	1
WAP to compute the sum of the first n terms of the following series $S = 1 + 1/2 + 1/3 + 1/4 + \dots$	N.R	1
WAP to compute the sum of the first n terms of the following series $S = 1 - 2 + 3 - 4 + 5 - \dots$	N.R	1
Write a function that checks whether a given string is Palindrome or not. Use this function to find whether the string entered by user is Palindrome or not.	N.R	1
Write a function to find whether a given no. is prime or not. Use the same to generate the prime numbers less than 100.	N.R	1
WAP to compute the factors of a given number.	N.R	1
Write a macro that swaps two numbers. WAP to use it.	N.R	1
WAP to print a triangle of stars as follows (take number of lines from user): * *** ***** ***** *****	N.R	1
WAP to perform following actions on an array entered by the user: i) Print the even-valued	A.B	5

elements ii) Print the odd-valued elements iii) Calculate and print the sum and average of the elements of array iv) Print the maximum and minimum element of array v) Remove the duplicates from the array vi) Print the array in reverse order The program should present a menu to the user and ask for one of the options. The menu should also include options to re-enter array and to quit the program.		
WAP that prints a table indicating the number of occurrences of each alphabet in the text entered as command line arguments.	A.B	1
Write a program that swaps two numbers using pointers.	A.B	1
Write a program in which a function is passed address of two variables and then alter its contents.	A.B	1
Write a program which takes the radius of a circle as input from the user, passes it to another function that computes the area and the circumference of the circle and displays the value of area and circumference from the main() function.	A.B	1
Write a program to find sum of n elements entered by the user. To write this program, allocate memory dynamically using malloc() / calloc() functions or new operator.	A.B	1
Write a menu driven program to perform following operations on strings: a) Show address of each character in string b) Concatenate two strings without using strcat function. c) Concatenate two strings using strcat function. d) Compare two strings e) Calculate length of the string (use pointers) f) Convert all lowercase characters to uppercase g) Convert all uppercase characters to lowercase h) Calculate number of vowels i) Reverse the string	A.B	5
Given two ordered arrays of integers, write a program to merge the two-arrays to get an ordered array.	A.B	1
WAP to display Fibonacci series (i)using recursion, (ii) using iteration	A.B	1
WAP to calculate Factorial of a number (i)using recursion, (ii) using iteration	A.B	1
WAP to calculate GCD of two numbers (i) with recursion (ii) without recursion	A.B	1
Create Matrix class using templates. Write a menu-driven program to perform following Matrix operations (2-D array implementation): a) Sum b)	A.B	4

Difference c) Product d) Transpose		
Create the Person class. Create some objects of this class (by taking information from the user). Inherit the class Person to create two classes Teacher and Student class. Maintain the respective information in the classes and create, display and delete objects of these two classes (Use Runtime Polymorphism).	A.B	1
Create a class Triangle. Include overloaded functions for calculating area. Overload assignment operator and equality operator.	A.B	1
Create a class Box containing length, breath and height. Include following methods in it: a) Calculate surface Area b) Calculate Volume c) Increment, Overload ++ operator (both prefix & postfix) d) Decrement, Overload -- operator (both prefix & postfix) e) Overload operator == (to check equality of two boxes), as a friend function f) Overload Assignment operator g) Check if it is P a g e 17 a Cube or cuboid Write a program which takes input from the user for length, breath and height to test the above class	A.B	1
Create a structure Student containing fields for Roll No., Name, Class, Year and Total Marks. Create 10 students and store them in a file.	A.B	1
Write a program to retrieve the student information from file created in previous question and print it in following format: Roll No. Name Marks	A.B	1
Copy the contents of one text file to another file, after removing all whitespaces.	A.B	1
Write a function that reverses the elements of an array in place. The function must accept only one pointer value and return void.	A.B	1

Computer System Architecture (UG-H-CC-L-204)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N. R	9
Data Representation and Basic Computer Arithmetic	N. R	12
Basic Computer Organization and Design	N. R	10
Central Processing Unit	A.B	9
Memory Organization	A.B	10
Input-Output Organization	A.B	10

3rd Sem

Data Structures (UG-H-CC-L-305)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Basic definitions; classifications; ADT; Linear Data Structures - Sequential representations; Non linear data structures – representations	N. R	2
Arrays	N. R	4
Stack	N. R	6
Linked Lists	N. R	10
Queues	N. R	6
Recursion	A.B	4
Trees and Graphs	A.B	10
Searching and Sorting	A.B	10
Hashing	A.B	4
File Structures	A.B	4

Data Structures Lab (UG-H-CC-P-305)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Write a program to search an element from a list. Give user the option to perform Linear or Binary search. Use Template functions	N.R	1
WAP using templates to sort a list of elements. Give user the option to perform sorting using Insertion sort, Bubble sort or Selection sort.	N.R	1
Implement Linked List using templates. Include functions for insertion, deletion and search of a number, reverse the list and concatenate two linked lists.	N.R	1
Implement Doubly Linked List using templates. Include functions for insertion, deletion and search of a number, reverse the list.	N.R	2
Implement Circular Linked List using templates. Include functions for insertion, deletion and search of a number, reverse the list.	N.R	2
Perform Stack operations using Linked List implementation.	N.R	1
Perform Stack operations using Array implementation. Use Templates	N.R	1
Perform Queues operations using Circular Array implementation. Use Templates	N.R	1
Create and perform different operations on Double-ended Queues using Linked List	N.R	1

implementation.		
WAP to scan a polynomial using linked list and add two polynomial.	N.R	1
WAP to calculate factorial and to compute the factors of a given no. (i)using recursion, (ii) using iteration	N.R	1
(ii) WAP to display fibonacci series (i)using recursion, (ii) using iteration	N.R	1
WAP to calculate GCD of 2 number (i) with recursion (ii) without recursion	N.R	1
WAP to create a Binary Search Tree and include following operations in tree: (a) Insertion (Recursive and Iterative Implementation) (b) Deletion by copying (c) Deletion by Merging (d) Search a no. in BST (e) Display its preorder, postorder and inorder traversals Recursively (f) Display its preorder, postorder and inorder traversals Iteratively (g) Display its level-by-level traversals (h) Count the non-leaf nodes and leaf nodes (i) Display height of tree (j) Create a mirror image of tree (k) Check whether two BSTs are equal or not	A.B	6
WAP to convert the Sparse Matrix into non-zero form and vice-versa.	A.B	1
WAP to reverse the order of the elements in the stack using additional stack.	A.B	1
WAP to reverse the order of the elements in the stack using additional Queue.	A.B	1
WAP to implement Diagonal Matrix using one-dimensional array.	A.B	1
WAP to implement Lower Triangular Matrix using one-dimensional array.	A.B	1
WAP to implement Upper Triangular Matrix using one-dimensional array.	A.B	1
WAP to implement Symmetric Matrix using one-dimensional array.	A.B	1
WAP to create a Threaded Binary Tree as per inorder traversal, and implement operations like finding the successor / predecessor of an element, insert an element, inorder traversal.	A.B	1
WAP to implement various operations on AVL Tree.	A.B	1

Design and Analysis of Algorithms (UG-H-CC-L-306)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N.R	3
Recursion	N.R	4
Algorithm Design Techniques	N.R	3
Sorting and Searching Techniques	N.R	14

Divide and Conquer	N.R	6
Dynamic Programming	A.B	4
Backtracking	A.B	8
Greedy Method	A.B	6
Graph algorithms	A.B	6
Notion of NP-completeness	N.R	6

Design and Analysis of Algorithms Lab (UG-H-CC-P-306)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Implement Insertion Sort (The program should report the number of comparisons)	N.R	1
Implement Merge Sort (The program should report the number of comparisons)	N.R	1
Implement Heap Sort(The program should report the number of comparisons)	N.R	1
Implement Randomized Quick sort (The program should report the number of comparisons)	N.R	1
Implement Radix Sort	A.B	1
Create a Red-Black Tree and perform following operations on it: i. Insert a node ii. Delete a node iii. Search for a number & also report the color of the node containing this number.	A.B	1
Write a program to determine the LCS of two given sequences	A.B	1
Implement Breadth-First Search in a graph	A.B	1
Implement Depth-First Search in a graph	A.B	1
Write a program to determine the minimum spanning tree of a graph	A.B	1

Discrete Structures (UG-H-CC-L-307)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	A.B	10
Growth of Functions	A.B	8
Recurrences	N.R	4
Graph Theory	N.R	10
Propositional Logic	N.R	4

UNIX/LINUX Programming (UG-H-SEC-P-301)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	A.B	9

User Management and the File System	A.B	6
Shell introduction and Shell Scripting	A.B	9

4th Sem

Operating System (UG-H-CC-L-408)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N. R	4
Operating System Organization	N. R	2
Process Management , Process	N. R	3
Threads	N. R	2
CPU scheduling	N. R	7
Process Synchronization	N. R	6
Deadlocks	N. R	8
Memory Management	N. R	10
File and I/O Management	A.B	5
I/O hardware, polling, interrupts, DMA, application I/O interface (block and character devices, network devices, clocks and timers, blocking and nonblocking I/O), kernel I/O subsystem (scheduling, buffering, caching, spooling and device reservation, error handling), performance.	A.B	5
Disk management	D.D	4
Protection and Security	D.D	4

Computer Networks (UG-H-CC-L-409)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to Computer Networks	N. R	6
Data Communication Fundamentals and Techniques	N. R	5
Networks Switching Techniques and Access mechanisms	N. R	4
Data Link Layer Functions and Protocol	N. R	8
Multiple Access Protocol and Networks	A.B	10
Networks Layer Functions and Protocols	A.B	13
Transport Layer Functions and Protocols	P.D	8
Overview of Application layer protocol	P.D	6

Database Management Systems (UG-H-CC-L-410)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N. R	4
Entity Relationship(ER) Modeling	N. R	6
Relation data model	N. R	5
SQL and Integrity Constraints	P.D	8
Relational Database Design	P.D	10
Internals of RDBMS	P.D	3
Transaction Processing	P.D	5
File Structure and Indexing	P.D	8

Database Management Systems Lab (UG-H-CC-P-410)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Structured Query Language (SQL) Creating Database	A.B	2
Table and Record Handling	A.B	2
Retrieving Data from a Database	A.B	2
Database Management	P.D	2
Cursors in Oracle PL / SQL	P.D	4
Writing Oracle PL / SQL Stored Procedures	P.D	4

Programming with MATLAB (UG-H-SEC-P-402)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Unit I Introduction to Programming	A.B	2
Unit II Programming Environment	A.B	2
Unit III Graph Plots	A.B	2
Unit IV Procedures and Functions	P.D	2
Unit V Control Statements	P.D	2
Unit VI Manipulating Text	P.D	2
Unit VII GUI Interface	P.D	2
Write a program to assign the following expressions to a variable A and then to print out the value of A. a. $(3+4)/(5+6)$ b. $2\pi^2$ c. $\sqrt{2}$	P.D	2

d. $(0.0000123 + 5.67 \times 10^{-3}) \times 0.4567 \times 10^{-4}$		
Celsius temperatures can be converted to Fahrenheit by multiplying by 9, dividing by 5, and adding 32. Assign a variable called C the value 37, and implement this formula to assign a variable F the Fahrenheit equivalent of 37 Celsius	A.B	2
Set up a vector called N with five elements having the values: 1, 2, 3, 4, 5. Using N, create assignment statements for a vector X which will result in X having these values: a. 2, 4, 6, 8, 10 b. $1/2, 1, 3/2, 2, 5/2$ c. $1, 1/2, 1/3, 1/4, 1/5$ d. $1, 1/4, 1/9, 1/16, 1/25$	A.B	3
A supermarket conveyor belt holds an array of groceries. The price of each product (in pounds) is [0.6, 1.2, 0.5, 1.3] ; while the numbers of each product are [3, 2, 1, 5]. Use MATLAB to calculate the total bill.	A.B	2
The sortrows(x) function will sort a vector or matrix X into increasing row order. Use this function to sort a list of names into alphabetical order.	P.D	3
The —identity matrix is a square matrix that has ones on the diagonal and zeros elsewhere. You can generate one with the eye() function in MATLAB. Use MATLAB to find a matrix B, such that when multiplied by matrix $A = \begin{bmatrix} 1 & 2 \\ -1 & 0 \end{bmatrix}$ the identity matrix $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is generated. That is $A * B = I$.	P.D	2
Create an array of N numbers. Now find a single MATLAB statement that picks out from that array the 1, 4, 9, 16, ..., \sqrt{N} th entries, i.e. those numbers which have indices that are square numbers	P.D	2
Draw a graph that joins the points (0,1), (4,3), (2,0) and (5,-2)	P.D	2
Celsius temperatures can be converted to Fahrenheit by multiplying by 9, dividing by 5, and adding 32. Assign a variable called C the value 37, and implement this formula to assign a variable F the Fahrenheit equivalent of 37 Celsius	A.B	2
Set up a vector called N with five elements having the values: 1, 2, 3, 4, 5. Using N, create assignment statements for a vector X which will result in X having these values: a. 2, 4, 6, 8, 10 b. $1/2, 1, 3/2, 2, 5/2$ c. $1, 1/2, 1/3, 1/4, 1/5$	A.B	3

d. 1, 1/4, 1/9, 1/16, 1/25		
A supermarket conveyor belt holds an array of groceries. The price of each product (in pounds) is [0.6, 1.2 ,0.5, 1.3] ; while the numbers of each product are [3, 2 ,1 ,5]. Use MATLAB to calculate the total bill.	A.B	2
The sortrows(x) function will sort a vector or matrix X into increasing row order. Use this function to sort a list of names into alphabetical order.	P.D	3
The —identity matrix is a square matrix that has ones on the diagonal and zeros elsewhere. You can generate one with the eye() function in MATLAB. Use MATLAB to find a matrix B, such that when multiplied by matrix $A = \begin{bmatrix} 1 & 2 \\ -1 & 0 \end{bmatrix}$ the identity matrix $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is generated. That is $A*B=I$.	P.D	2
Create an array of N numbers. Now find a single MATLAB statement that picks out from that array the 1,4,9,16,...,√Nth entries, i.e. those numbers which have indices that are square numbers	P.D	2
Draw a graph that joins the points (0,1), (4,3), (2,0) and (5,-2)	P.D	2
The seeds on a sunflower are distributed according to the formula below. Plot a small circle at each of the first 1000 co-ordinates : $r_n = \sqrt{n}$ $\theta_n = (137.51/180)\pi n$	A.B	2
Calculate 10 approximate points from the function $y=2x$ by using the formulae: i. $x_n = n$ ii. $y_n = 2n + \text{rand} - 0.5$ Fit a line of best fit to these points using the function polyfit() with degree=1, and generate co-ordinates from the line of best fit using polyval(). Use the on-line help to find out how to use these functions. Plot the raw data and the line of best fit.	A.B	3
Calculate and replay 1 second of a sinewave at 500Hz with a sampling rate of 11025Hz. Save the sound to a file called "ex35.wav". Plot the first 100 samples.	A.B	2
Build a square wave by adding together 10 odd harmonics: 1f, 3f, 5f, etc. The amplitude of the nth harmonic should be 1/n. Display a graph of one cycle of the result superimposed on the individual harmonics.	P.D	3
Write a function called FtoC (ftoc.m) to convert Fahrenheit temperatures into Celsius. Make sure the program has a title comment and a help page. Test from the command	P.D	2

window with: i. FtoC(96) ii. lookfor Fahrenheit iii. help FtoC		
Write a program to input 2 strings from the user and to print out (i) the concatenation of the two strings with a space between them, (ii) a line of asterisks the same length as the concatenated strings, and (iii) the reversed concatenation. For example: i. Enter string 1: Mark ii. Enter string 2: Huckvale iii. MarkHuckvale iv. ***** v. elavkcuHkraM	P.D	2

N.R- Nimisha Ray

A.B- AnirbanBharasa

P.D- Prosenjit Das

D.D- Debabrata Das

Lesson Plan 2021-22

Computer Fundamentals and Programming using C (UG-H-CC-L-101)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to Computer and Problem Solving, Hardware, Software	N. R	3
Generation of Computers, Introduction to Programming Languages, Problem Solving	N. R	6
Number Systems and Codes	N. R	12
Boolean Algebra	N. R	6
C Language preliminaries	N. R	3
Input-Output	N. R	1
Pre-processor commands:	N. R	1
Operators and expressions	N. R	2
Storage types	N. R	2
Functions	D.D	3
Arrays	D.D	4
String	D.D	4
Pointers	D.D	4
Structure	D.D	4
File Structure	D.D	6
File Handling	D.D	4

Programming using C Lab (UG-H-CC-P-101)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	D.D	2
C Programming elements	D.D	2
C Preprocessor	D.D	2
Statements	D.D	4
Functions	D.D	8
Arrays	D.D	4
Pointers	D.D	4
User defined Data types	D.D	4
File Access	D.D	2

Digital System Design (UG-H-CC-L-102)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Combinational Circuits	N. R	25
Sequential Circuits	B.K.N	25
Data Converter	N. R	5
DTL and TTL NAND gate circuits and its operations, Fan in & Fan out, Noise margin, SSI, MSI, LSI, and VLSI classifications	B.K.N	5

Digital System Design Lab (UG-H-CC-P-102)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Combinational Circuits: 1) Implement Half Adder/Half Subtractor / Full Adder / Full Subtractor using Logic Gates. Realize a logic function using basic/universal gates in SOP and POS form. Study the functionalities of 7483 and design a BCD adder using 7483 or equivalent. 2) Design a 4 bit 2's complement adder – subtractor unit using 7483 or equivalent and XOR gates. 3) Design a circuit to convert BCD numbers to corresponding gray codes. 4) Design a 4:1 MUX using NAND gates. Study of 74153 and 74151. Design Full Adder / Subtractor using MUX. 5) Design a 2:4 decoder using NAND gates. Study of 74155 and 74138. Design Full Adder / Subtractor using decoders.	N. R	16

6) Design a parity generator/checker using basic gates. 7) Design magnitude comparator using basic/universal gates. Study of 7485. 8) Design a seven segment display unit.		
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2nd Sem

Programming in C++ (UG-H-CC-L-203)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to C and C++	B.K.N	3
Data Types, Variables, Constants, Operators and Basic I/O	B.K.N	5
Expressions, Conditional Statements and Iterative Statements	B.K.N	10
Functions and Arrays	B.K.N	8
Derived Data Types (Structures and Unions)	B.K.N	12
Memory Allocation in C++	B.K.N	4
File I/O, Preprocessor Directives	B.K.N	6
Using Classes in C++	B.K.N	4
Overview of Function Overloading and Operator Overloading	B.K.N	4
Inheritance, Polymorphism and Exception Handling	B.K.N	4

Programming in C++ Lab (UG-H-CC-P-203)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
WAP to print the sum and product of digits of an integer.	D.D	1
WAP to reverse a number.	D.D	1
WAP to compute the sum of the first n terms of the following series $S = 1 + 1/2 + 1/3 + 1/4 + \dots$	D.D	1
WAP to compute the sum of the first n terms of the following series $S = 1 - 2 + 3 - 4 + 5 - \dots$	D.D	1
Write a function that checks whether a given string is Palindrome or not. Use this function to find whether the string entered by user is Palindrome or not.	D.D	1
Write a function to find whether a given no. is prime or not. Use the same to generate the prime numbers less than 100.	D.D	1
WAP to compute the factors of a given number.	D.D	1
Write a macro that swaps two numbers. WAP to use it.	D.D	1
WAP to print a triangle of stars as follows (take number of lines from user): *	D.D	1

*** **** ***** *****		
WAP to perform following actions on an array entered by the user: i) Print the even-valued elements ii) Print the odd-valued elements iii) Calculate and print the sum and average of the elements of array iv) Print the maximum and minimum element of array v) Remove the duplicates from the array vi) Print the array in reverse order The program should present a menu to the user and ask for one of the options. The menu should also include options to re-enter array and to quit the program.	D.D	5
WAP that prints a table indicating the number of occurrences of each alphabet in the text entered as command line arguments.	D.D	1
Write a program that swaps two numbers using pointers.	D.D	1
Write a program in which a function is passed address of two variables and then alter its contents.	D.D	1
Write a program which takes the radius of a circle as input from the user, passes it to another function that computes the area and the circumference of the circle and displays the value of area and circumference from the main() function.	D.D	1
Write a program to find sum of n elements entered by the user. To write this program, allocate memory dynamically using malloc() / calloc() functions or new operator.	D.D	1
Write a menu driven program to perform following operations on strings: a) Show address of each character in string b) Concatenate two strings without using strcat function. c) Concatenate two strings using strcat function. d) Compare two strings e) Calculate length of the string (use pointers) f) Convert all lowercase characters to uppercase g) Convert all uppercase characters to lowercase h) Calculate number of vowels i) Reverse the string	D.D	5
Given two ordered arrays of integers, write a program to merge the two-arrays to get an ordered array.	D.D	1
WAP to display Fibonacci series (i)using recursion, (ii) using iteration	D.D	1
WAP to calculate Factorial of a number (i)using	D.D	1

recursion, (ii) using iteration		
WAP to calculate GCD of two numbers (i) with recursion (ii) without recursion	D.D	1
Create Matrix class using templates. Write a menu-driven program to perform following Matrix operations (2-D array implementation): a) Sum b) Difference c) Product d) Transpose	D.D	4
Create the Person class. Create some objects of this class (by taking information from the user). Inherit the class Person to create two classes Teacher and Student class. Maintain the respective information in the classes and create, display and delete objects of these two classes (Use Runtime Polymorphism).	D.D	1
Create a class Triangle. Include overloaded functions for calculating area. Overload assignment operator and equality operator.	D.D	1
Create a class Box containing length, breath and height. Include following methods in it: a) Calculate surface Area b) Calculate Volume c) Increment, Overload ++ operator (both prefix & postfix) d) Decrement, Overload -- operator (both prefix & postfix) e) Overload operator == (to check equality of two boxes), as a friend function f) Overload Assignment operator g) Check if it is P a g e 17 a Cube or cuboid Write a program which takes input from the user for length, breath and height to test the above class	D.D	1
Create a structure Student containing fields for Roll No., Name, Class, Year and Total Marks. Create 10 students and store them in a file.	D.D	1
Write a program to retrieve the student information from file created in previous question and print it in following format: Roll No. Name Marks	D.D	1
Copy the contents of one text file to another file, after removing all whitespaces.	D.D	1
Write a function that reverses the elements of an array in place. The function must accept only one pointer value and return void.	D.D	1

Computer System Architecture (UG-H-CC-L-204)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N. R	9
Data Representation and Basic Computer Arithmetic	N. R	12
Basic Computer Organization and Design	N. R	10
Central Processing Unit	N. R	9
Memory Organization	N. R	10

Input-Output Organization	N. R	10
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3rd Sem

Data Structures (UG-H-CC-L-305)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Basic definitions; classifications; ADT; Linear Data Structures - Sequential representations; Non linear data structures – representations	D.D	2
Arrays	D.D	4
Stack	D.D	6
Linked Lists	D.D	10
Queues	D.D	6
Recursion	D.D	4
Trees and Graphs	D.D	10
Searching and Sorting	D.D	10
Hashing	D.D	4
File Structures	D.D	4

Data Structures Lab (UG-H-CC-P-305)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Write a program to search an element from a list. Give user the option to perform Linear or Binary search. Use Template functions	D.D	1
WAP using templates to sort a list of elements. Give user the option to perform sorting using Insertion sort, Bubble sort or Selection sort.	D.D	1
Implement Linked List using templates. Include functions for insertion, deletion and search of a number, reverse the list and concatenate two linked lists.	D.D	1
Implement Doubly Linked List using templates. Include functions for insertion, deletion and search of a number, reverse the list.	D.D	2
Implement Circular Linked List using templates. Include functions for insertion, deletion and search of a number, reverse the list.	D.D	2
Perform Stack operations using Linked List implementation.	D.D	1
Perform Stack operations using Array implementation.	D.D	1

Use Templates		
Perform Queues operations using Circular Array implementation. Use Templates	D.D	1
Create and perform different operations on Double-ended Queues using Linked List implementation.	D.D	1
WAP to scan a polynomial using linked list and add two polynomial.	D.D	1
WAP to calculate factorial and to compute the factors of a given no. (i)using recursion, (ii) using iteration	Name of the Teacher	1
(ii) WAP to display fibonacci series (i)using recursion, (ii) using iteration	D.D	1
WAP to calculate GCD of 2 number (i) with recursion (ii) without recursion	D.D	1
WAP to create a Binary Search Tree and include following operations in tree: (a) Insertion (Recursive and Iterative Implementation) (b) Deletion by copying (c) Deletion by Merging (d) Search a no. in BST (e) Display its preorder, postorder and inorder traversals Recursively (f) Display its preorder, postorder and inorder traversals Iteratively (g) Display its level-by-level traversals (h) Count the non-leaf nodes and leaf nodes (i) Display height of tree (j) Create a mirror image of tree (k) Check whether two BSTs are equal or not	D.D	6
WAP to convert the Sparse Matrix into non-zero form and vice-versa.	D.D	1
WAP to reverse the order of the elements in the stack using additional stack.	D.D	1
WAP to reverse the order of the elements in the stack using additional Queue.	D.D	1
WAP to implement Diagonal Matrix using one-dimensional array.	D.D	1
WAP to implement Lower Triangular Matrix using one-dimensional array.	D.D	1
WAP to implement Upper Triangular Matrix using one-dimensional array.	D.D	1
WAP to implement Symmetric Matrix using one-dimensional array.	D.D	1
WAP to create a Threaded Binary Tree as per inorder traversal, and implement operations like finding the successor / predecessor of an element, insert an element, inorder traversal.	D.D	1
WAP to implement various operations on AVL Tree.	D.D	1

Design and Analysis of Algorithms (UG-H-CC-L-306)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N.R	3
Recursion	N.R	4
Algorithm Design Techniques	N.R	3
Sorting and Searching Techniques	N.R	14
Divide and Conquer	N.R	6
Dynamic Programming	N.R	4
Backtracking	N.R	8
Greedy Method	N.R	6
Graph algorithms	N.R	6
Notion of NP-completeness	N.R	6

Design and Analysis of Algorithms Lab (UG-H-CC-P-306)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Implement Insertion Sort (The program should report the number of comparisons)	N.R	1
Implement Merge Sort (The program should report the number of comparisons)	N.R	1
Implement Heap Sort(The program should report the number of comparisons)	N.R	1
Implement Randomized Quick sort (The program should report the number of comparisons)	N.R	1
Implement Radix Sort	N.R	1
Create a Red-Black Tree and perform following operations on it: i. Insert a node ii. Delete a node iii. Search for a number & also report the color of the node containing this number.	N.R	1
Write a program to determine the LCS of two given sequences	N.R	1
Implement Breadth-First Search in a graph	N.R	1
Implement Depth-First Search in a graph	N.R	1
Write a program to determine the minimum spanning tree of a graph	N.R	1

Discrete Structures (UG-H-CC-L-307)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	A.B	10
Growth of Functions	A.B	8
Recurrences	N.R	4
Graph Theory	N.R	10

Propositional Logic	N.R	4
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UNIX/LINUX Programming (UG-H-SEC-P-301)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	A.B	9
User Management and the File System	A.B	6
Shell introduction and Shell Scripting	A.B	9

4th Sem

Operating System (UG-H-CC-L-408)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N. R	4
Operating System Organization	N. R	2
Process Management , Process	N. R	3
Threads	N. R	2
CPU scheduling	N. R	7
Process Synchronization	N. R	6
Deadlocks	N. R	8
Memory Management	N. R	10
File and I/O Management	A.B	5
I/O hardware, polling, interrupts, DMA, application I/O interface (block and character devices, network devices, clocks and timers, blocking and nonblocking I/O), kernel I/O subsystem (scheduling, buffering, caching, spooling and device reservation, error handling), performance.	A.B	5
Disk management	D.D	4
Protection and Security	D.D	4

Computer Networks (UG-H-CC-L-409)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to Computer Networks	N. R	6
Data Communication Fundamentals and Techniques	N. R	5
Networks Switching Techniques and Access mechanisms	N. R	4
Data Link Layer Functions and Protocol	N. R	8
Multiple Access Protocol and Networks	A.B	10
Networks Layer Functions and Protocols	A.B	13

Transport Layer Functions and Protocols	P.D	8
Overview of Application layer protocol	P.D	6

Database Management Systems (UG-H-CC-L-410)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N. R	4
Entity Relationship(ER) Modeling	N. R	6
Relation data model	N. R	5
SQL and Integrity Constraints	P.D	8
Relational Database Design	P.D	10
Internals of RDBMS	P.D	3
Transaction Processing	P.D	5
File Structure and Indexing	P.D	8

Database Management Systems Lab (UG-H-CC-P-410)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Structured Query Language (SQL) Creating Database	A.B	2
Table and Record Handling	A.B	2
Retrieving Data from a Database	A.B	2
Database Management	P.D	2
Cursors in Oracle PL / SQL	P.D	4
Writing Oracle PL / SQL Stored Procedures	P.D	4

Programming with MATLAB (UG-H-SEC-P-402)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Unit I Introduction to Programming	A.B	2
Unit II Programming Environment	A.B	3
Unit III Graph Plots	A.B	2
Unit IV Procedures and Functions	P.D	3
Unit V Control Statements	P.D	2
Unit VI Manipulating Text	P.D	2
Unit VII GUI Interface	P.D	2
Write a program to assign the following expressions to a variable A and then to print out	P.D	2

<p>the value of A.</p> <p>a. $(3+4)/(5+6)$</p> <p>b. $2\pi^2$ Page 29</p> <p>c. $\sqrt{2}$</p> <p>d. $(0.0000123 + 5.67 \times 10^{-3}) \times 0.4567 \times 10^{-4}$</p>		
<p>Celsius temperatures can be converted to Fahrenheit by multiplying by 9, dividing by 5, and adding 32. Assign a variable called C the value 37, and implement this formula to assign a variable F the Fahrenheit equivalent of 37 Celsius</p>	A.B	2
<p>Set up a vector called N with five elements having the values: 1, 2, 3, 4, 5. Using N, create assignment statements for a vector X which will result in X having these values:</p> <p>a. 2, 4, 6, 8, 10</p> <p>b. $1/2, 1, 3/2, 2, 5/2$</p> <p>c. $1, 1/2, 1/3, 1/4, 1/5$</p> <p>d. $1, 1/4, 1/9, 1/16, 1/25$</p>	A.B	3
<p>A supermarket conveyor belt holds an array of groceries. The price of each product (in pounds) is [0.6, 1.2, 0.5, 1.3]; while the numbers of each product are [3, 2, 1, 5]. Use MATLAB to calculate the total bill.</p>	A.B	2
<p>The <code>sortrows(x)</code> function will sort a vector or matrix X into increasing row order. Use this function to sort a list of names into alphabetical order.</p>	P.D	3
<p>The <code>eye(n)</code> function generates an identity matrix of size n. The identity matrix is a square matrix that has ones on the diagonal and zeros elsewhere. You can generate one with the <code>eye()</code> function in MATLAB. Use MATLAB to find a matrix B, such that when multiplied by matrix $A = \begin{bmatrix} 1 & 2 \\ -1 & 0 \end{bmatrix}$ the identity matrix $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is generated. That is $A * B = I$.</p>	P.D	2
<p>Create an array of N numbers. Now find a single MATLAB statement that picks out from that array the 1, 4, 9, 16, ..., \sqrt{N}th entries, i.e. those numbers which have indices that are square numbers</p>	P.D	2
<p>Draw a graph that joins the points (0,1), (4,3), (2,0) and (5,-2)</p>	P.D	2
<p>Celsius temperatures can be converted to Fahrenheit by multiplying by 9, dividing by 5, and adding 32. Assign a variable called C the value 37, and implement this formula to assign a variable F the Fahrenheit equivalent of 37 Celsius</p>	A.B	2
<p>Set up a vector called N with five elements having the values: 1, 2, 3, 4, 5. Using N, create assignment statements for a vector X which will</p>	A.B	3

<p>result in X having these values:</p> <p>a. 2, 4, 6, 8, 10</p> <p>b. 1/2, 1, 3/2, 2, 5/2</p> <p>c. 1, 1/2, 1/3, 1/4, 1/5</p> <p>d. 1, 1/4, 1/9, 1/16, 1/25</p>		
<p>A supermarket conveyor belt holds an array of groceries. The price of each product (in pounds) is [0.6, 1.2, 0.5, 1.3] ; while the numbers of each product are [3, 2, 1, 5]. Use MATLAB to calculate the total bill.</p>	A.B	2
<p>The sortrows(x) function will sort a vector or matrix X into increasing row order. Use this function to sort a list of names into alphabetical order.</p>	P.D	3
<p>The —identity matrix is a square matrix that has ones on the diagonal and zeros elsewhere. You can generate one with the eye() function in MATLAB. Use MATLAB to find a matrix B, such that when multiplied by matrix $A = \begin{bmatrix} 1 & 2 \\ -1 & 0 \end{bmatrix}$ the identity matrix $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is generated. That is $A * B = I$.</p>	P.D	2
<p>Create an array of N numbers. Now find a single MATLAB statement that picks out from that array the 1,4,9,16,...,√Nth entries, i.e. those numbers which have indices that are square numbers</p>	P.D	2
<p>Draw a graph that joins the points (0,1), (4,3), (2,0) and (5,-2)</p>	P.D	2
<p>The seeds on a sunflower are distributed according to the formula below. Plot a small circle at each of the first 1000 co-ordinates :</p> $r_n = \sqrt{n}$ $\theta_n = (137.51/180)\pi n$	A.B	2
<p>Calculate 10 approximate points from the function $y=2x$ by using the formulae:</p> <p>i. $x_n = n$</p> <p>ii. $y_n = 2n + \text{rand} - 0.5$</p> <p>Fit a line of best fit to these points using the function polyfit() with degree=1, and generate co-ordinates from the line of best fit using polyval(). Use the on-line help to find out how to use these functions. Plot the raw data and the line of best fit.</p>	A.B	3
<p>Calculate and replay 1 second of a sinewave at 500Hz with a sampling rate of 11025Hz. Save the sound to a file called "ex35.wav". Plot the first 100 samples.</p>	A.B	2
<p>Build a square wave by adding together 10 odd harmonics: 1f, 3f, 5f, etc. The amplitude of the nth harmonic should be 1/n. Display a graph of one cycle of the result superimposed on the individual harmonics.</p>	P.D	3

Write a function called FtoC (ftoc.m) to convert Fahrenheit temperatures into Celsius. Make sure the program has a title comment and a help page. Test from the command P a g e 30 window with: i. FtoC(96) ii. lookfor Fahrenheit iii. help FtoC	P.D	2
Write a program to input 2 strings from the user and to print out (i) the concatenation of the two strings with a space between them, (ii) a line of asterisks the same length as the concatenated strings, and (iii) the reversed concatenation. For example: i. Enter string 1: Mark ii. Enter string 2: Huckvale iii. MarkHuckvale iv. ***** v. elavkcuHkraM	P.D	2

5th Sem

Theory of Computation (UG-H-CC-L-511)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Languages, Alphabets, string, language, Basic Operations on language, Concatenation, Kleene Star	N.R	8
Finite Automata and Regular Languages	N.R	20
Context free languages	N.R	16
Turing Macines and Models of Computations	N.R	16

Internet Technologies (UG-H-CC-L-512)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Java Use of Objects, Array and ArrayList class	A.B	6
JavaScript Data types, operators, functions, control structures, events and event handling.	A.B	6
JDBC JDBC Fundamentals, Establishing Connectivity and working with connection interface, Working with statements, Creating and Executing SQL Statements, Working with Result Set Objects.	A.B	18
JSP	P.D	22

Introduction to Java Server Pages, HTTP and Servlet Basics, The Problem with Servlets, The Anatomy of a JSP Page, JSP Processing, JSP Application Design with MVC, Setting Up the JSP Environment, Implicit JSP Objects, Conditional Processing, Displaying Values, Using an expression to Set an Attribute, Declaring Variables and Methods, Error Handling and Debugging, Sharing Data Between JSP Pages, Requests, and Users, Database Access.		
Java Beans Java Beans Fundamentals, JAR files, Introspection, Developing a simple Bean, Connecting to DB	P.D	8

Internet Technologies Lab (UG-H-CC-P-512)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Create event driven program for following: 1. Print a table of numbers from 5 to 15 and their squares and cubes using alert. P a g e 32 2. Print the largest of three numbers. 3. Find the factorial of a number n. 4. Enter a list of positive numbers terminated by Zero. Find the sum and average of these numbers. 5. A person deposits Rs 1000 in a fixed account yielding 5% interest. Compute the amount in the account at the end of each year for n years. Read n numbers. Count the number of negative numbers, positive numbers and zeros in the list.	P.D	6
JAVA Script: 1. Create a student registration form. Create functions to perform the following checks: a. Roll number is a 7-digit numeric value b. Name should be an alphabetical value(String) c. Non-empty fields like DOB 2. Implement a static password protection. 3. Write a java script a. To change the colour of text using setTimeout() b. To move an image across screen using setInterval()	P.D	4
JAVA Programs: 1. WAP to find the largest of n natural numbers. 2. WAP to find whether a given number is prime or not. 3. WAP to print the sum and product of digits of an Integer and reverse the Integer. 4. Write a program to create an array of 10 integers. Accept values from the user in that array. Input another number from the user and find out how many numbers are equal to the number passed, how many are greater and how many are less than the number passed.	P.D	10

<p>5. Write java program for the following matrix operations: a. Addition of two matrices b. Summation of two matrices c. Transpose of a matrix Input the elements of matrices from user</p> <p>6. Write a java program that computes the area of a circle, rectangle and a Cylinder using function overloading.</p>		
<p>JDBC:</p> <p>1. Create a table 'Student' and '_Teacher' in 'College' database and insert two rows in this newly created table using JDBC API and do the following:</p> <p>a. Update an already created table 'Teacher' in 'College' database by updating a teacher's name, with "Dr." appended before the name, whose name is "Rita". b. Repeat the same thing for all the teachers using PreparedStatement. c. Delete the student with ID=3 from 'Student' database. d. Insert two students to the ResultSet returned by the query which selects all students with FirstName="Ayush". The database must also get updated along with ResultSet.</p> <p>2. Create a procedure in MySQL to count the number of Rows in table 'Student'. Use Callable Statement to call this method from Java code.</p>	P.D	4
<p>JSP:</p> <p>1. Display the patterns of numbers, characters etc.</p> <p>2. Make two files as follows: a. main.html: shows 2 text boxes and 3 radio buttons with values "addition", "subtraction" and "multiplication" b. operate.jsp: depending on what the user selects perform the corresponding function (Give two implementations: using request.getParameter() and using expression language)</p> <p>3. Validate User input entered in a form. The input must include Name, DOB, Email ID, Lucky Number, Favourite food etc.</p>	P.D	4

Microprocessor (UG-H-DSE-L-501)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to 8085A CPU architecture-register organization, addressing modes and their features. Software instruction set and Assembly Language Programming. Pin description and features.	D.D	16
Instruction cycle, machine cycle, Timing diagram.	D.D	6
Hardware Interfacing	D.D	6
Interrupts and DMA. Peripherals	D.D	18
Typical applications of a microprocessor	D.D	2

16 bit processors	D.D	12
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Microprocessor Lab (UG-H-DSE-P-501)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
ASSEMBLY LANGUAGE PROGRAMMING 1. Write a program for 32-bit binary division and multiplication	D.D	2
Write a program for 32-bit BCD addition and subtraction	D.D	2
Write a program for Linear search and binary search.	D.D	2
Write a program to add and subtract two arrays	D.D	2
Write a program for binary to ascii conversion	D.D	2
Write a program for ascii to binary conversion	D.D	2

Numerical Methods (UG-H-DSE-L-502)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Numerical analysis and Errors	N. R	6
Interpolation	N. R	10
Numerical Differentiation	N. R	6
Numerical Integration Trapezoidal rule Simpson's one-third rule Weddle's rule	N. R	8
Solution of Algebraic and Transcendental Equations	N. R	8
Solution of System of Linear Equations	N. R	12
Numerical Solution of Ordinary Differential Equations	N. R	10

Numerical Methods Lab (UG-H-DSE-P-502)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Find the roots of the equation by bisection method	P.D	2
Find the roots of the equation by secant/Regula-Falsi method.	P.D	2
Find the roots of the equation by Newton's method.	P.D	2
Find the solution of a system of nonlinear equation using Newton's method.	P.D	2
Find the solution of tri-diagonal system using Gauss Thomas method.	P.D	2
Find the solution of system of equations using Jacobi/Gauss-Seidel method.	P.D	2
Find the cubic spline interpolating function.	P.D	2
Evaluate the approximate value of finite integrals using Gaussian/Romberg integration.	P.D	2

Solve the boundary value problem using finite difference method.	P.D	2
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6th Sem

Software Engineering (UG-H-CC-L-613)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	N.R	9
Requirement Analysis	N.R	8
Software Project Management	N.R	8
Risk Management	N.R	8
Quality Management	N.R	8
Design Engineering	N.R	8
Testing Strategies & Tactics	N.R	9

Computer Graphics (UG-H-CC-L-614)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction to computer graphics & graphics systems	D.D	10
Scan conversion	D.D	10
2D transformation & viewing	D.D	14
3D transformation & viewing	D.D	12
Curves	D.D	5
Hidden surfaces	D.D	5
Color & shading models	D.D	4

Computer Graphics Lab (UG-H-CC-P-614)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Write a program to implement Bresenham's line drawing algorithm.	D.D	2
Write a program to implement mid-point circle drawing algorithm.	D.D	2
Write a program to clip a line using Cohen and Sutherland line clipping algorithm.	D.D	2
Write a program to clip a polygon using Sutherland Hodgeman algorithm	D.D	2
Write a program to apply various 2D transformations on a 2D object (use homogenous coordinates).	D.D	2
Write a program to apply various 3D transformations on a 3D object and then apply parallel and perspective projection on it.	D.D	2

Write a program to draw Hermite/Bezier curve.	D.D	2
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System Programming (UG-H-DSE-L-603)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Introduction	P.D	6
Assemblers & Loaders, Linkers	P.D	12
Lexical Analysis	P.D	12
Parsing	P.D	2
Intermediate representations	P.D	16
Storage organization	P.D	6
Code Generation	P.D	8

System Programming Lab (UG-H-DSE-P-603)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
To implement an assembler for a hypothetical language.	P.D	4
To get familiar with lex: write a program to recognize numbers, identifiers.	P.D	4
To get familiar with yacc: write a desk calculator.	P.D	4

Project Work/Dissertation (UG-H-DSE-PRO-604)

Syllabus or Unit Covered	Name of the Teacher	Total Classes
Group A	P.D	6
Group B	D.D	6
Group C	B.K.N	6

N.R- Nimisha Ray

A.B- AnirbanBharasa

P.D- Prosenjit Das

D.D- Debabrata Das

B.K.N - BrojoKishorNath

Department: Economics (Honours)	
2021-2022	
Semester-I	
Course Title	Name of the Teacher
Course: ECON—H-CC-T-1 Course title: Introductory Microeconomics	S.D.
Course: ECON—H-CC-T-2 Course title: Mathematical Methods for Economics - I	A.K.S.
Course: ECON—H-GE-T-1 Course title: Introductory Microeconomics	S.D.
Semester-II	
Course: ECON-H-CC-T-03 Course Title: Introductory Macroeconomics	A.K.S.
Course: ECON—H-CC-T-2 Course title: Mathematical Methods for Economics - I	A.K.S.
Course: ECON—H-GE-T-1 Course title: Introductory Microeconomics	B.D.
Course: ECON-H-GE-T-02 Course Title: Introductory Macroeconomics	B.D.
SEMESTER III	
Course: ECON-H-CC-T-5 Course Title: Intermediate Microeconomics – I	S.D.
Course: ECON-H-CC-T-6 Course Title: Intermediate Macroeconomics – I	A.K.S.
Course: ECON-H-CC-T-7 Course Title: Statistical Methods for Economics	B.D.
SEMESTER IV	
Course: ECON-H-CC-T-8 Course Title: Intermediate Microeconomics – II	S.D.
Course: ECON-H-CC-T-9 Course Title: Intermediate Macroeconomics – II	A.K.S.
Course: ECON-H-CC-T-10 Course Title: Introductory Econometrics	A.K.S.
Course: ECON-H-GE-T-4A Course Title: Intermediate Microeconomics – II	S.D.
Course: ECON-H-GE-T-9 Course Title: Intermediate Macroeconomics – II	B.D.
Course: ECON-H-SEC-T-2 Course Title: Computer Application for Data Analysis	A.K.S.
SEMESTER V	
Course: ECON-H-CC-T-11 Course Title: International Economics	A.K.S.
Course: ECON-H-CC-T-12 Course Title: Public Economics	S.D.
Course: ECON-H-DSE-T-1A Course title: Economic Development and Policy in India - I	S.D.
Course: ECON-H-DSE-T-1B Course Title: Money and Banking	A.K.S.

Course: ECON-H-DSE-T-2A Course Title: Public Finance	S.D.
Course: ECON-H-DSE-T-2B Course Title: Environmental Economics	B.D.
SEMESTER VI	
Course: ECON-H-CC-T-13 Course Title: Indian Economy	A.K.S.
Course: ECON-H-CC-T-14 Course Title: Development Economics	S.D.
Course: ECON-H-DSE-T-3A Course title: Economic Development and Policy in India - II	S.D.
Course: ECON-H-DSE-T-4A Course Title: Dissertation	A.K.S.
Course: ECON-H-DSE-T-4B Course Title: Financial Economics	A.K.S.
2020-2021	
Semester-I	
Course Title	Name of the Teacher
Course: ECON—H-CC-T-1 Course title: Introductory Microeconomics	S.D.
Course: ECON—H-CC-T-2 Course title: Mathematical Methods for Economics - I	A.K.S.
Course: ECON—H-GE-T-1 Course title: Introductory Microeconomics	S.D.
Semester-II	
Course: ECON-H-CC-T-03 Course Title: Introductory Macroeconomics	A.K.S.
Course: ECON—H-CC-T-2 Course title: Mathematical Methods for Economics - I	A.K.S.
Course: ECON—H-GE-T-1 Course title: Introductory Microeconomics	B.D.
Course: ECON-H-GE-T-02 Course Title: Introductory Macroeconomics	B.D.
SEMESTER III	
Course: ECON-H-CC-T-5 Course Title: Intermediate Microeconomics – I	S.D.
Course: ECON-H-CC-T-6 Course Title: Intermediate Macroeconomics – I	A.K.S.
Course: ECON-H-CC-T-7 Course Title: Statistical Methods for Economics	B.D.
SEMESTER IV	
Course: ECON-H-CC-T-8 Course Title: Intermediate Microeconomics – II	S.D.
Course: ECON-H-CC-T-9 Course Title: Intermediate Macroeconomics – II	A.K.S.
Course: ECON-H-CC-T-10 Course Title: Introductory Econometrics	A.K.S.
Course: ECON-H-GE-T-4A Course Title: Intermediate Microeconomics – II	S.D.

Course: ECON-H-GE-T-9 Course Title: Intermediate Macroeconomics – II	B.D.
Course: ECON-H-SEC-T-2 Course Title: Computer Application for Data Analysis	A.K.S.
SEMESTER V	
Course: ECON-H-CC-T-11 Course Title: International Economics	A.K.S.
Course: ECON-H-CC-T-12 Course Title: Public Economics	S.D.
Course: ECON-H-DSE-T-1A Course title: Economic Development and Policy in India - I	S.D.
Course: ECON-H-DSE-T-1B Course Title: Money and Banking	A.K.S.
Course: ECON-H-DSE-T-2A Course Title: Public Finance	S.D.
Course: ECON-H-DSE-T-2B Course Title: Environmental Economics	B.D.
SEMESTER VI	
Course: ECON-H-CC-T-13 Course Title: Indian Economy	A.K.S.
Course: ECON-H-CC-T-14 Course Title: Development Economics	S.D.
Course: ECON-H-DSE-T-3A Course title: Economic Development and Policy in India - II	S.D.
Course: ECON-H-DSE-T-4A Course Title: Dissertation	A.K.S.
Course: ECON-H-DSE-T-4B Course Title: Financial Economics	A.K.S.
2019-2020	
Semester-I	
Course Title	Name of the Teacher
Course: ECON—H-CC-T-1 Course title: Introductory Microeconomics	S.D.
Course: ECON—H-CC-T-2 Course title: Mathematical Methods for Economics - I	A.K.S.
Course: ECON—H-GE-T-1 Course title: Introductory Microeconomics	S.D.
Semester-II	
Course: ECON-H-CC-T-03 Course Title: Introductory Macroeconomics	A.K.S.
Course: ECON—H-CC-T-2 Course title: Mathematical Methods for Economics - I	A.K.S.
Course: ECON—H-GE-T-1 Course title: Introductory Microeconomics	B.D.
Course: ECON-H-GE-T-02 Course Title: Introductory Macroeconomics	B.D.
SEMESTER III	
Course: ECON-H-CC-T-5 Course Title: Intermediate Microeconomics – I	S.D.

Course: ECON-H-CC-T-6 Course Title: Intermediate Macroeconomics – I	A.K.S.
Course: ECON-H-CC-T-7 Course Title: Statistical Methods for Economics	B.D.
SEMESTER IV	
Course: ECON-H-CC-T-8 Course Title: Intermediate Microeconomics – II	S.D.
Course: ECON-H-CC-T-9 Course Title: Intermediate Macroeconomics – II	A.K.S.
Course: ECON-H-CC-T-10 Course Title: Introductory Econometrics	A.K.S.
Course: ECON-H-GE-T-4A Course Title: Intermediate Microeconomics – II	S.D.
Course: ECON-H-GE-T-9 Course Title: Intermediate Macroeconomics – II	B.D.
Course: ECON-H-SEC-T-2 Course Title: Computer Application for Data Analysis	A.K.S.
PART-III	
Paper V(International Economics)	A.K.S.
Paper VI(Public Finance and Economics of Finance)	S.D.
Paper VII (Economics of Development)	S.D.
Paper VIII (Indian Economic Problems)	B.D.
2018-2019	
Semester-I	
Course Title	Name of the Teacher
Course: ECON—H-CC-T-1 Course title: Introductory Microeconomics	S.D.
Course: ECON—H-CC-T-2 Course title: Mathematical Methods for Economics - I	A.K.S.
Course: ECON—H-GE-T-1 Course title: Introductory Microeconomics	S.D.
Semester-II	
Course: ECON-H-CC-T-03 Course Title: Introductory Macroeconomics	A.K.S.
Course: ECON—H-CC-T-2 Course title: Mathematical Methods for Economics - I	A.K.S.
Course: ECON—H-GE-T-1 Course title: Introductory Microeconomics	B.D.
Course: ECON-H-GE-T-02 Course Title: Introductory Macroeconomics	B.D.
Part-II	
Paper-III-Group-A-Micro Economics-II	S.D.
Paper-III-Group-B-Macro Economics-II	A.K.S.
Paper-IV-Statistics, Computer Application & Project Work	A.K.S.
PART-III	
Paper V(International Economics)	A.K.S.
Paper VI(Public Finance and Economics of Finance)	S.D.
Paper VII (Economics of Development)	S.D.

	B.D.
2017-2018	
PART-I	
Paper I-Group-A-Micro Economics-I	S.D.
Paper I-Group-B-Macro Economics-I	A.K.S.
Paper II-Group-A-Statistics-I	B.D.
Paper II-Group-B- Mathematical Economics	A.K.S.
Part-II	
Paper-III-Group-A-Micro Economics-II	S.D.
Paper-III-Group-B-Macro Economics-II	A.K.S.
Paper-IV-Statistics, Computer Application & Project Work	A.K.S.
PART-III	
Paper V(International Economics)	A.K.S.
Paper VI(Public Finance and Economics of Finance)	S.D.
Paper VII (Economics of Development)	S.D.
Department: Economics (General)	
2021-2022	
Semester-I	
Course Title	Name of the Teacher
Course: ECON—G-CC-T-01 Course title: Principles of Microeconomics - I	S.D.
Semester-II	
Course: ECON—G-CC-T-04 Course title: Principles of Macroeconomics - I	A.K.S.
SEMESTER III	
Course: ECON—G-CC-T-07 Course title: Principles of Microeconomics - II	A.K.B.
Course: ECON—G-SEC-T-01 Course title: Financial Economics	A.K.S.
SEMESTER IV	
Course: ECON—G-CC-T-10 Course title: Principles of Macroeconomics - II	B.D.
Course: ECON—G-SEC-T-02 Course title: Statistical Tools for Data Analysis - I	A.K.S.
SEMESTER V	
Course: ECON—G-DSE-T-1A Course title: Economic Development and Policy in India - I	S.D.
Course: ECON—G-DSE-T-1B Course title: Money and Banking Discipline	A.K.S.
Course: ECON—G-GE-T-1 Course title: Introductory Microeconomics	S.D.
Course: ECON—G-SEC-T-03 Course title: Statistical Tools for Data Analysis - II	A.K.S.
SEMESTER VI	
Course: ECON—G-DSE-T-3A Course title: Economic Development and Policy in India - II	S.D.
Course: ECON—G-DSE-T-3B Course title: Economic History of India (1857-1947) Discipline	B.D.

Course: ECON—G-SEC-T-04 Course title: Introduction to Indian Public Finance	S.D.
2020-2021	
Semester-I	
Course Title	Name of the Teacher
Course: ECON—G-CC-T-01 Course title: Principles of Microeconomics - I	S.D.
Semester-II	
Course: ECON—G-CC-T-04 Course title: Principles of Macroeconomics - I	A.K.S.
SEMESTER III	
Course: ECON—G-CC-T-07 Course title: Principles of Microeconomics - II	A.K.B.
Course: ECON—G-SEC-T-01 Course title: Financial Economics	A.K.S.
SEMESTER IV	
Course: ECON—G-CC-T-10 Course title: Principles of Macroeconomics - II	B.D.
Course: ECON—G-SEC-T-02 Course title: Statistical Tools for Data Analysis - I	A.K.S.
SEMESTER V	
Course: ECON—G-DSE-T-1A Course title: Economic Development and Policy in India - I	S.D.
Course: ECON—G-DSE-T-1B Course title: Money and Banking Discipline	A.K.S.
Course: ECON—G-GE-T-1 Course title: Introductory Microeconomics	S.D.
Course: ECON—G-SEC-T-03 Course title: Statistical Tools for Data Analysis - II	A.K.S.
SEMESTER VI	
Course: ECON—G-DSE-T-3A Course title: Economic Development and Policy in India - II	S.D.
Course: ECON—G-DSE-T-3B Course title: Economic History of India (1857-1947) Discipline	B.D.
Course: ECON—G-SEC-T-04 Course title: Introduction to Indian Public Finance	S.D.
2019-2020	
Semester-I	
Course Title	Name of the Teacher
Course: ECON—G-CC-T-01 Course title: Principles of Microeconomics - I	S.D.
Semester-II	
Course: ECON—G-CC-T-04 Course title: Principles of Macroeconomics - I	A.K.S.
SEMESTER III	
Course: ECON—G-CC-T-07 Course title: Principles of Microeconomics - II	A.K.B.
Course: ECON—G-SEC-T-01 Course title: Financial Economics	A.K.S.
SEMESTER IV	

Course: ECON—G-CC-T-10 Course title: Principles of Macroeconomics – II	B.D.
Course: ECON—G-SEC-T-02 Course title: Statistical Tools for Data Analysis – I	A.K.S.
PART-III	
Paper V(International Economics)	A.K.S.
Paper VI(Public Finance and Economics of Finance)	S.D.
Paper VII (Economics of Development)	S.D.
Paper VIII (Indian Economic Problems)	B.D.
2018-2019	
Semester-I	
Course Title	Name of the Teacher
Course: ECON—G-CC-T-01 Course title: Principles of Microeconomics - I	S.D.
Semester-II	
Course: ECON—G-CC-T-04 Course title: Principles of Macroeconomics - I	A.K.S.
Part-II	
Paper-III-A-Microeconomics	S.D.
Paper-III-B-Macroeconomics	A.K.S.
Paper-IV-Statistics	B.D.
Part-III	
Paper V(International Economics)	A.K.S.
Paper VI(Public Finance and Economics of Finance)	S.D.
Paper VII (Economics of Development)	S.D.
Paper VIII (Indian Economic Problems)	B.D.
2017-2018	
Part-I	
Paper-I-A-Microeconomics	S.D.
Paper-I-B-Macroeconomics	A.K.S.
Paper II-Statistics	B.D.
Part-II	
Paper-III-A-Microeconomics	S.D.
Paper-III-B-Macroeconomics	A.K.S.
Paper-IV-Statistics	B.D.
Part-III	
Paper V(International Economics)	A.K.S.
Paper VI(Public Finance and Economics of Finance)	S.D.
Paper VII (Economics of Development)	S.D.
Paper VIII (Indian Economic Problems)	B.D.

DEPARTMENT OF ENGLISH

2018-19 (July- Dec)

B.A. ENGLISH (Honours)

SEMESTER-I

Course Code Course Title Course

ENGH-H-CC-T-1 Indian Classical Literature

Credit 6 Full Marks 60+15=75

Vyasa. **“The Dicing” and “The Sequel to Dicing”**. Book V. **“The Book of Effort”** in The Mahabharata.

RM

“The Book of the Assembly Hall”, **“The Temptation of Karna”**, Book V. **“The Book of Effort”** in The Mahabharata

RM

IlangoAdigal. **“The Book of Banci”**, in Cilappatikaram.

PB

Kalidasa. **AbhijnanaShakuntalam**.

AKB

Sudraka. **Mrcchakatika**.

DG

SEMESTER-I

Course Code Course Title ENGH-H-CC-T-2

European Classical Literature

A

Plautus. **Pot of Gold**.

RM

Ovid. Selections from **Metamorphoses**. Book III: Bacchus.

DG

Horace. “Epistle I”. Bk. I. The Satires of Horace and Persius.

DG

B

Homer. Books I and II. The Iliad.

DG

Sophocles. **“Oedipus the King”**.

AKB

Semester-II: (Jan 2019-June 2019)

Syllabus

ENGH-H-CC-T-3

Indian Writing in English

A

TEACHER

Amitav Ghosh. “**The Ghosts of Mrs. Gandhi**”. The New Yorker AKB

Salman Rushdie. “**The Free Radio**” DG

Shashi Deshpande. “**The Intrusion**”

AKB

Kamala Das. “**Introduction**” DG

Robin S. Ngangom. “**The Strange Affair of Robin S. Ngangom**”, “A DG

Poem for Mother”

Nissim Ezekiel. “**Enterprise**” RM

Toru Dutt. “**Our Casurina Tree**” PB

Arun Kolatkar. “**The Bus**

Jayanta Mahapatra. “**Dawn at Puri**” RM

B

Girish Karnad. **Hayavadana**. Three Plays PB

Anita Desai. **In Custody.**

RM

SEMESTER-III

(July 2019- Dec 2019)

ENGH-H-CC-T-5 American Literature

A

- Edgar Allan Poe. “**The Purloined Letter**” PB
- William Faulkner. “**Dry September**” RM
- Anne Bradstreet. “**The prologue**” RM
- Walt Whitman. “**Passage to India**” (ll. 1-68). Leaves of Grass. DG
- Adriene Rich. “**Power**” AKB
- Allen Ginsberg. “**An Eastern Ballad**”. Beat Poets. RM
- Abraham Lincoln. “**Gettysburg Address**” DG
- Martin Luther King. “**I have a Dream**” AKB

B

- Tennessee Williams. **The Glass Menagerie.** RM
- Toni Morrison. **Beloved** AKB

SEMESTER-III

ENGH-H-CC-T-6 Popular Literature

A

Shyam Selvadurai. **Funny Boy.**

RM

Durgabai Vyam and S. Vyam. **Bhimayana: Experiences of Untouchability** AKB

B

Lewis Carroll. *Through the Looking Glass.*

PB

Agatha Christie. *The Murder of Roger Ackroyd.*

DG

SEMESTER-III

ENGH-H-CC-T-7

British Poetry and Drama: 17th and 18th

A

John Milton. **Paradise Lost. Bk. I**

PB

Alexander Pope. **The Rape of the Lock. (Books I and II)**

DG

B

John Webster. **The Duchess of Malfi.**

AKB

Aphra Behn. **The Rover.**

RM

ENGH-H-GE-T-3 Language and Linguistic

- | | |
|----------------------------|-----|
| 1. Language: | DG |
| 2. Phonetics and Phonology | AKB |
| 3. Syntax and Semantics | PB |
| 4. Rhetoric and Prosody: | RM |

ENGH-H-SEC-T-1 English Language Teaching

- | | |
|--|-----|
| 1. Knowing the Learner | AKB |
| 2. Structures of English Language | RM |
| 3. Methods of teaching English Language and Literature | PB |
| 4. Materials for Language Teaching | PB |
| 5. Assessing Language Skills | DG |
| 6. Using Technology in Language Teaching | DG |

Semester-IV: Syllabus

SEMESTER-IV

(Jan 2020-June 2020)

ENGH-H-CC-T-8 British Literature: 18th Century

Samuel Johnson. “ London ”.	AKB
Thomas Gray. “ Elegy Written in a Country Churchyard ”.	PB
Eliza Heywood. Fantomina .	DG
B	
William Congreve. The Way of the World .	DG
Jonathan Swift. Gulliver’s Travels (Books I & II)	RM

SEMESTER-IV

ENGH-H-CC-T-9 British Romantic Literature

A

William Blake . “The Lamb”, “The Chimney Sweeper”, “The Tyger”	AKB
Blake. the Introduction to The Songs of Innocence.	RM
Robert Burns. “A Bard’s Epitaph” and “Scots WhaHae”	DG
Samuel Taylor Coleridge. “Kubla Khan”, “Dejection: An Ode”	PB
John Keats. “Ode to a Nightingale”, "Bright Star", “To Autumn”	AKB
Percy Bysshe Shelley. “Ode to the West Wind”	AKB

B

William Wordsworth. "Tintern Abbey"	DG
George Gordon Byron. Canto IV. Verses 178-86. Childe Harold's Pilgrimage. ll. 1594-1674.	PB
Mary Shelley. Frankenstein	RM

ENGH-H-CC-T-10 British Literature: 19th Century

A

Alfred Tennyson. "Ulysses"	DG
Robert Browning. "My Last Duchess"	AKB
Christina Rossetti. 1st Stanza. "The Goblin Market".	PB

B

Charlotte Brontë. Jane Eyre.	RM
Charles Dickens. Hard Times.	PB
Thomas Hardy. Tess of the d'Urbervilles.	AKB

SEMESTER-IV

ENGH-H-GE-T-4 Contemporary India: Women and Empowerment

1. Social Construction of Gender (Masculinity and Femininity) and Patriarchy
AKB
2. History of Women's Movements in India Women, Nationalism, Partition,
Women and Political Participation
DG
3. Women and Law, Women and the Indian Constitution, Personal Laws PB
4. Women and Environment: State interventions, domestic violence, female
foeticide, sexual harassment
RM
5. Female Voices: RokeyaShekhawatHosseini. Sultana's Dream.
DG
6. Dalit Discourse: Sharmila Rege. "Dalit Feminist Standpoint". AKB

SEMESTER-IV

ENGH-H-SEC-T-2 Soft Skills

Topics and skills to be learnt

Teamwork	PB
Emotional Intelligence	DG
Adaptability	RM
Leadership	AKB
Problem solving	PB

Semester-V: Syllabus (July 2020-Dec 2020)

SEMESTER-V

ENGH-H-CC-T-11 Women's Writing

A

Emily Dickinson. "I cannot live with you". "I'm „wife“- I've finished that" PB

Sylvia Plath. "Daddy", "Lady Lazarus"

DG

Maya Angelou. "Caged Bird".

AKB

Katherine Mansfield. "Bliss" RM

Mahashweta Devi. "Draupadi". PB

Rassundari Debi. Excerpts from Amar Jiban in Women's Writing in India. DG

B

Alice Walker. The Color Purple. RM

Mary Wollstonecraft. Chapter II. A Vindication of the Rights of Woman. AKB

Ramabai Ranade. "A Testimony of our Inexhaustible Treasures". DG

ENGH-H-CC-T-12 British Literature: The Early 20th

A

William Butler Yeats. "Byzantium", "Sailing to Byzantium" PB

Thomas Stearns Eliot. "The Love Song of J. Alfred Prufrock", "Preludes",
"Hollow Men"

DG

Wystan Hugh Auden. "Unknown Citizen"

AKB

David Herbert Lawrence. "Odour of Chrysanthemums" RM

Virginia Woolf. "Mark on the Wall" PB

W. Somerset Maugham. "Rain" RM

B

Joseph Conrad. Heart of Darkness. DG

John Millington Synge. Riders to the Sea. AKB

James Joyce. A Portrait of the Artist as a Young Man RM

SEMESTER-V

ENGH-H-DSE-T-1 Modern Indian Writing in English Translation

Premchand. "The Shroud". DG

Ismat Chughtai. "The Quilt". Lifting the Veil: RM

Gurdial Singh. "A Season of No Return". Earthy Tones. PB

Fakir Mohan Senapati. “Rebati”.	AKB
G.M.Muktibodh. “The Void” and “So Very Far”	DG
Amrita Pritam. “I Say unto Waris Shah”	DG
Thangjam Ibopishak Singh. “Dali, Hussain, or Odour of Dream, Clours of Wind” and “The Land of the Half-Humans”.	RM
B	
Rabindranath Tagore. Red Oleanders or	PB
Dharamveer Bharati. Andha Yug.	RM
G. KalyanRao. Untouchable Spring.	AKB

ENGH-H-DSE-T-2 British Literature: Post World War II

Phillip Larkin. “Whitsun Weddings” and “Church Going”	AKB
Ted Hughes. “Hawk Roosting” and “Crow“s Fall”	DG
Seamus Heaney. “Digging” and “Casualty”	PB
Carol Anne Duffy. “Text” and “Stealing”	RM
B	
George Orwell. Animal Farm	AKB
John Osborne. Look Back in Anger	DG
Julian Barnes. England, England	RM

ENGH-H-DSE-T-3

Literary Criticism DSE

A

William Wordsworth. "Preface" to the Lyrical Ballads (1802) AKB

Virginia Woolf. "Modern Fiction" RM

T.S. Eliot: "Tradition and the Individual Talent" DG

B

S.T. Coleridge. Biographia Literaria. Chapters XIII and XIV AKB

I.A. Richards. Principles of Literary Criticism. Chapters 1, 2 and 34. PB

Cleanth Brooks. "The Heresy of Paraphrase", and "The Language of Paradox" PB

Semester-VI: Syllabus (Jan 2021-June 2021)

ENGH-H-CC-T-13 Modern European Drama

Teacher

Henrik Ibsen. "Ghosts". Ghosts and Other Plays

RM

Samuel Beckett. *Waiting for Godot*.

DG

Anton Chekov. "The Seagull". *Plays*

PB

Bertolt Brecht. *The Good Person of Szechwan*.

AKB

Eugene Ionesco. "Rhinoceros". *Rhinoceros, The Chairs, The Lesson*.

PB

Luigi Pirandello. *Six Characters in Search of an Author*.

PB

ENGH-H-CC-T-14

Postcolonial Literatures

Teacher

Bessie Head. "The Collector of Treasures"

RM

Ama Ata Aidoo. "The Girl Who Can"

DG

Grace Ogot. "The Green Leaves"

AKB

Pablo Neruda. "Tonight I Can Write", "The Way Spain Was."

PB

Derek Walcott. "A Far Cry from Africa", "Names"

AKB

David Malouf. "Revolving Days", "Wild Lemons"

RM

Mamang Dai. "Small Towns and the River", "The Voice of the Mountain"

DG

Chinua Achebe. Things Fall Apart

AKB

Gabriel Garcia Marquez. "No One Writes to the Colonel"

RM

Syllabus Distribution Semester VI (DSE)

ENGH-H-DSE-T-4	Literary Theory	Teacher
Marxism: a. Antonio Gramsci. "The Formation of the Intellectuals" and "Hegemony"		RM
Marxism: b. Louis Althusser. "Ideology and Ideological State Apparatuses"		RM
Feminism: a. Elaine Showalter. "Twenty Years on: A Literature of Their Own Revisited."		AKB
Feminism: b. Luce Irigaray. "When the Goods Get Together"		AKB
Postcolonial Studies: a. Mahatma Gandhi.		

“Passive Resistance” and “Education”	DG
Postcolonial Studies: b. Edward Said. “The Scope of Orientalism”	DG
Postcolonial Studies: c. Aijaz Ahmad. “Indian Literature”	DG
Poststructuralism: a. Jacques Derrida. “Structure, Sign and Play	PB
Poststructuralism: b. Michel Foucault. “Truth and Power”	PB

ENGH-H-DSE-T-5

Partition Literature

Teacher

Dibyendu Palit, Alam's Own House“, Bengal Partition Stories
AKB

Manik Bandyopadhyay. ‘The Final Solution“, Mapmaking
AKB

Saadat Hasan Manto, “Toba Tek Singh”, in Black Margins: Manto
RM

Gulzar. “Toba Tek Singh”. Translating Partition
RM

Lalithambika Antharajanam. “A Leaf in the Storm”
DG

Faiz Ahmad Faiz. “For Your Lanes, My Country” PB

Intizar Husain. Basti DG

Amitav Ghosh. The Shadow Lines

AKB

ENGH-H-DSE-T-6	Research Methodology	Teacher
Practical Criticism and writing a term paper		PB
Conceptualizing and drafting research proposals		DG
Style manuals and their uses		RM
Notes, references, and bibliography		AKB

Syllabus Distribution English General

B.A. ENGLISH (General)

SEMESTER-I

ENGH-G-LCC-T-1

Indian Writing in English

	Teacher
R.K. Narayan. “Selvi”	DG
H.L.V. Derozio. “The Orphan Girl”	AKB

Toru Dutt. “Our Casuarina Tree”	PB
Kamala Das. “Introduction”	RM
Jayanta Mahapatra. “Dawn at Puri”	DG
Nirad C Chaudhuri. “My Birth place” AKB	
Rabindranath Tagore. “The Post Office”	RM

B.A. ENGLISH (General)

SEMESTER-I

ENGH-G-CC-T-1

British Poetry and Drama: 17th and 18th Centuries

John Milton. *Paradise Lost. Bk. I*

PB

Alexander Pope. *The Rape of the Lock. (Books I and II)*

DG

John Webster. *The Duchess of Malfi.*

AKB

Aphra Behn. *The Rover.*

RM

B.A. ENGLISH (General)

SEMESTER-I

ENGH-G-AECC-T-1

English Communication (L1)

Introduction: Theory of Communication, Types, modes of Communication PB

Language of Communication:	DG
Speaking Skills:	AKB
4. Reading and Understanding :	RM
5. Writing Skills:	DG

B.A. ENGLISH (General

SEMESTER-II

ENGH-G-CC-T-2

British Literature: 18th Century Samuel Johnson. "London".	AKB
Thomas Gray. "Elegy Written in a Country Churchyard".	PB
Eliza Heywood. "Fantomina".	DG
William Congreve. "The Way of the World".	DG
Jonathan Swift. "Gulliver's Travels" (Books I & II)	RM

B.A. ENGLISH (General)

SEMESTER-III

ENGH-G-LCC-T-2

Literature of the British Isles

Katherine Mansfield. “The Doll’s House”	RM
William Shakespeare. Sonnet XVIII	PB
John Milton. “On His Blindness”	DG
William Wordsworth. “She dwelt among Untrodden Ways”	AKB
Louis MacNeice. “Prayer before Birth”	RM
George Bernard Shaw. “Freedom”	AKB
Lady Gregory. “The Rising of the Moon”	PB

B.A.ENGLISH (General)

SEMESTER-III

ENGH-G-CC-T-3

British Romantic Literature

William Blake. “The Lamb”, “The Tyger”	
AKB	
“The Chimney Sweeper, the Introduction to The Songs of Innocence.	RM
Robert Burns. “A Bard’s Epitaph” and “Scots Wha Hae”	DG
Samuel Taylor Coleridge. “Kubla Khan”, “Dejection: An Ode”	PB
John Keats. “Ode to a Nightingale”, “Bright Star”, “To Autumn”	AKB

Percy Bysshe Shelley. “Ode to the West Wind”	AKB
William Wordsworth. “Tintern Abbey”	DG
George Gordon Byron. Canto IV. “Childe Harold’s Pilgrimage”	PB
Mary Shelley. “Frankenstein”.	RM

B.A.ENGLISH (General)

SEMESTER-III

ENGH-G-SEC-T-1

English Language Teaching

1. Knowing the Learner	AKB
2. Structures of English Language	PB
3. Methods of teaching English Language and Literature	DG
4. Materials for Language Teaching	RM
5. Assessing Language Skills	PB
6. Using Technology in Language Teaching	DG

B.A.ENGLISH (General)

SEMESTER-IV

ENGH-G-CC-T-4

British Literature: 19th Century

Alfred Tennyson. “Ulysses”	DG
Robert Browning. “My Last Duchess”.	AKB
Christina Rossetti. 1st Stanza. “The Goblin Market”.	PB
Charlotte Brontë. “Jane Eyre”.	RM
Charles Dickens. “Hard Times”.	PB
Thomas Hardy. “Tess of the d'Urbervilles”.	AKB

B.A.ENGLISH (General)

SEMESTER-IV

ENGH-G-SEC-T-2 Soft Skills

1. Team work	PB
2. Emotional Intelligence	DG
3.	Adaptability
AKB	
4. Leadership	RM
5. Problem solving	PB

B.A.ENGLISH (General)

SEMESTER-V

ENGH-G-DSE-T-1

Modern Indian Writing in English Translation

Premchand. “The Shroud”.

PB

Ismat Chughtai. “The Quilt”.

RM

Gurdial Singh. “A Season of No Return”.

PB

Fakir Mohan Senapati. “Rebati”. Oriya Stories.

AKB

G.M. Muktibodh. “The Void” and “So Very Far

RM

Amrita Pritam. “I Say unto Waris Shah”

RM

**Thangjam Ibopishak Singh. “Dali, Hussain, or Odour of Dream, Clours of
Wind” and “The Land of the Half-Humans”.**

DG

Rabindranath Tagore. *Red Oleanders* or *Dharamveer Bharati*. *Andha Yug*

DG

G. KalyanRao. *Untouchable Spring*.

AKB

B.A. ENGLISH (General)

SEMESTER-V

ENGH-G-GE-T-1

Academic Writing and Composition

- | | |
|---|------------|
| 1. Introduction to the Writing Process | DG |
| 2. Introduction to the Conventions of Academic Writing | PB |
| 3. Writing in one's own words: Summarizing and Paraphrasing | |
| AKB | |
| 4. Critical Thinking: Syntheses, Analyses, and Evaluation | RM |
| 5. Structuring an Argument: Introduction, Interjection, and Conclusion | DG |
| 6. Citing Resources; Editing, Book and Media Review | AKB |

B.A.ENGLISH (General)

SEMESTER-V

ENGH-G-SEC-T-3

Business Communication

- | | |
|--|------------|
| 1. Introduction to the essentials of Business Communication | AKB |
|--|------------|

2. Citing references, and using bibliographical and research tools	AKB
3. Writing a project report	RM
4. Writing reports on fieldwork/visits to industries,	DG
5. Summarizing annual report of companies	DG
6. Writing minutes of meetings	PB
7. E-correspondence	PB
8. Spoken English for business communication	RM
9. Making oral presentations	RM

B.A.ENGLISH (General)

SEMESTER-VI

ENGH-G-DSE-T-2

Partition Literature

TOPIC	Teacher
Dibyendu Palit, Alam's Own House", Bengal Partition Stories	AKB
Manik Bandyopadhyay. 'The Final Solution", Mapmaking	AKB
Saadat Hasan Manto, "Toba Tek Singh", in Black Margins: Manto	RM
Gulzar. "Toba Tek Singh". Translating Partition	RM

Lalithambika Antharajanam. “A Leaf in the Storm”	DG
Faiz Ahmad Faiz. “For Your Lanes, My Country”	PB
Intizar Husain. Basti	DG
Amitav Ghosh. The Shadow Lines	AKB

B.A.ENGLISH (General)

SEMESTER-VI

ENGH-G-GE-T-2

Contemporary India: Women and Empowerment

1. Social Construction of Gender and Patriarchy	AKB
2. History of Women's Movements in India	PB
3. Women and Law, Women and the Indian Constitution	DG
4. Women and Environment:	RM
5. Female Voices: Rokeya Shekhawat Hossein. Sultana’s Dream.	DG
6. Dalit Discourse: Sharmila Rege.“Dalit Feminist Standpoint”.	AKB

B.A.ENGLISH (General)

SEMESTER-VI

ENGH-G-SEC-T-4

Technical Writing

1. Communication: Language and communication

AKB

2. Writing skills:

PB/RM

3. Technical writing: scientific and technical subjects

DG

Syllabus Modularization [June 2017 – June2022]
Department of Environmental Science
Nabadwip Vidyasagar College
July 2017-June 2018

Paper	Topic	Name of the Teacher
Part I		
Paper I (Theoretical)	Unit I: Fundamentals of Environmental Science	Dr. Anirban Biswas
	Unit II : Environmental Biology	Raja Banarjee
	Unit III : Environmental Chemistry	Dr. Santanu Chowdhury
Paper II (Theoretical)	Unit I : Environmental Physics	Suchismita Saha
	Unit II : Environmental Geology	Priyanka Saha Das
	Unit III : Environmental Geography	Priyanka Saha Das
Paper III (Practical)	Major and Minor Experiments, Identification relating to Environmental Biology, Environmental Chemistry and Environmental Physics, Field Studies, Lab Records and Viva Voce.	Dr. Santanu Chowdhury/ Priyanka Saha Das/ Raja Banarjee/ Dr. Anirban Biswas/ Suchismita Saha
Environmental Studies –P.M.-30		Priyanka Saha Das
Part II		
Paper IV (Theoretical)	Unit I: Environmental Pollution	Dr. Santanu Chowdhury
	Unit II: Environmental Physiology	Dr. Anirban Biswas
	Unit III: Environmental Toxicology and Environmental Health	Raja Banarjee
Paper V (Theoretical)	Unit I : Environmental Management	Suchismita Saha
	Unit II: Remote Sensing and GIS Techniques – Application.	Dr. Santanu Chowdhury
	Unit III : Soil Science	Priyanka Saha Das
Paper VI (Practical)	Major and Minor Experiments, Identification relating to Environmental Geology & Geography, Environmental Pollution and Environmental Physiology, Field Study, Lab Records and Viva Voce.	Dr. Santanu Chowdhury/ Priyanka Saha Das/ Raja Banarjee
Part III		
Paper VII (Theoretical)	Unit I : Environmental Laws, Rules, Policies and Movements	Dr. Santanu Chowdhury
	Unit II: Environmental Economics	Dr. Santanu Chowdhury
	Unit III : Environmental Statistics and Mathematical Modeling	Suchismita Saha
Paper VIII (Theoretical)	Unit I : Environmental Microbiology and Environmental Biotechnology	Raja Banarjee
	Unit II : Social Environmental Issues and Management	Priyanka Saha Das
	Unit III : Environmental Technology for Pollution Control	Dr. Anirban Biswas
Paper IX (Theoretical)	Unit I : Energy Management	Dr. Anirban Biswas
	Unit II : Instrumentation and Analytical Techniques	Suchismita Saha
	Unit III: Resource Assessment and Conservation	Priyanka Saha Das

Paper X (Practical)	Major and Minor Experiments relating to Remote Sensing Study, Toxicology, Statistics and Viva Voce.	Dr. Santanu Chowdhury/ Suchismita Saha
Paper XI (Practical)	Major and Minor Experiments relating to Environmental Microbiology and Environmental Biotechnology	Raja Banarjee/ Dr. Anirban Biswas

Syllabus Modularization
July 2018-December 2018 [Semester I, Part II, Part III]

Paper	Topic	Name of the Teacher
SEM- I		
CORE COURSE- 01 (Code: UG-ENVS-H-CC-01) Earth And Earth Surface Processes	Unit-1- Introduction	Dr. Santanu Chowdhury
	Unit-2- Earth System Process	Dr. Santanu Chowdhury
	UNIT-3- Minerals And Rocks	Dr. Anirban Biswas
	Unit-4- Earth Surface Process	Suchismita Saha
	UNIT-5- Importance Of Being Mountain	Suchismita Saha
ENVS-H-CC-P -01 (Practical)	Hand specimen: rocks and minerals	Suchismita Saha
	Microscopic studies of thin section of rock and minerals.	Dr. Santanu Chowdhury
	Topographical sheet interpretation	Suchismita Saha
CORE COURSE- 02 (Code: UG-ENVS-H-CC-02) Environmental Chemistry and Environmental Physics	Unit-1- Fundamental Of Environmental Chemistry	Dr. Santanu Chowdhury
	Unit-2- Atmospheric Chemistry	Dr. Santanu Chowdhury
	Unit-3- Water Chemistry	Priyanka Saha Das
	Unit-4- Soil Chemistry	Priyanka Saha Das
	Unit-5- Fundamental Of Environmental Physics	Suchismita Saha
	Unit-6- Movement Of Pollutant In Environment	Dr. Anirban Biswas
ENVS-H-CC-P -02 (Practical)	Preparation of primary and secondary standard solutions.	Raja Banarjee
	Estimation of metals using standard potassium dichromate/ potassium permanganate solution.	Raja Banarjee
	Measurement of physicochemical parameters of soil and water samples (pH, conductivity, hardness, alkalinity), soil organic matter.	Priyanka Saha Das
ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-02)	Environmental Studies	Priyanka Saha Das Raja Banarjee
Part II		
Paper IV (Theoretical)	Unit I: Environmental Pollution	Dr. Santanu Chowdhury
	Unit II: Environmental Physiology	Dr. Anirban Biswas
	Unit III: Environmental Toxicology and Environmental Health	Raja Banarjee
Paper V (Theoretical)	Unit I : Environmental Management	Suchismita Saha
	Unit II: Remote Sensing and GIS Techniques – Application.	Priyanka Saha Das
	Unit III : Soil Science	Priyanka Saha Das

Paper VI (Practical)	Major and Minor Experiments, Identification relating to Environmental Geology & Geography, Environmental Pollution and Environmental Physiology, Field Study, Lab Records and Viva Voce.	Dr. Santanu Chowdhury/ Priyanka Saha Das/ Suchismita Saha
Part III		
Paper VII (Theoretical)	Unit I : Environmental Laws, Rules, Policies and Movements	Dr. Santanu Chowdhury
	Unit II: Environmental Economics	Dr. Santanu Chowdhury
	Unit III : Environmental Statistics and Mathematical Modeling	Suchismita Saha
Paper VIII (Theoretical)	Unit I : Environmental Microbiology and Environmental Biotechnology	Raja Banarjee
	Unit II : Social Environmental Issues and Management	Priyanka Saha Das
	Unit III : Environmental Technology for Pollution Control	Dr. Anirban Biswas
Paper IX (Theoretical)	Unit I : Energy Management	Priyanka Saha Das
	Unit II : Instrumentation and Analytical Techniques	Suchismita Saha
	Unit III: Resource Assessment and Conservation	Dr. Anirban Biswas
Paper X (Practical)	Major and Minor Experiments relating to Remote Sensing Study, Toxicology, Statistics and Viva Voce.	Suchismita Saha
Paper XI (Practical)	Major and Minor Experiments relating to Environmental Microbiology and Environmental Biotechnology	Dr. Santanu Chowdhury

Syllabus Modularization
January 2019- June 2019 [Semester II, Part II, Part III]

Paper	Topic	Name of the Teacher
SEM- II		
Core Course- 03 (Code: UG-ENVS-H-CC-03) Water And Water Resources	Unit-1- Introduction	Dr. Santanu Chowdhury
	Unit-2- Properties Of Water	Dr. Santanu Chowdhury
	Unit-3- Surface And Subsurface Water	Dr. Anirban Biswas
	Unit-4- Wetlands And Their Management	Suchismita Saha
	Unit-5- Marine Resource Management	Suchismita Saha
	Unit-6- Water Resource In India	Raja Banarjee
	Unit-7- Water Resource Conflicts	Dr. Santanu Chowdhury
	Unit-8- Major Laws And Treaties	Raja Banarjee
ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-02)	Environmental Studies	Priyanka Saha Das Raja Banarjee
UG-ENVS-H-CC-P -03 (Practical)	<ul style="list-style-type: none"> ● Field study related to rainwater harvesting / groundwater wells and document preparation. ● Field visit to wetland and document preparation. ● Water demand in domestic/ agricultural fields/ industrial areas through preparation of survey sheets followed by documentation 	Dr. Santanu Chowdhury/ Suchismita Saha
Core Course- 04	Unit-1- Introduction	Dr. Santanu Chowdhury

(Code: UG-ENVS-H-CC-04) Land And Soil Conservation And Management	Unit-2- Fundamentals Of Soil Science	Priyanka Saha Das
	Unit-3- Soil Degradation - Causes	Priyanka Saha Das
	Unit-4- Land use Changes And Land Degradation	Dr. Anirban Biswas
	Unit-5- Costs Of Land Degradation	Dr. Anirban Biswas
	Unit-6- Controlling Land Degradation	Raja Banarjee
UG-ENVS-H-CC-P -04 (Practical)	<ul style="list-style-type: none"> Determination of soil organic matter, nutrients (N, P, K), Soil water holding capacity, Soil texture analysis. Soil profile study. Identification of degraded land using remote sensing data and topographical sheets 	Raja Banarjee/ Priyanka Saha Das
Part II		
Paper IV (Theoretical)	Unit I: Environmental Pollution	Dr. Santanu Chowdhury
	Unit II: Environmental Physiology	Dr. Anirban Biswas
	Unit III: Environmental Toxicology and Environmental Health	Raja Banarjee
Paper V (Theoretical)	Unit I : Environmental Management	Suchismita Saha
	Unit II: Remote Sensing and GIS Techniques – Application.	Priyanka Saha Das
	Unit III : Soil Science	Priyanka Saha Das
Paper VI (Practical)	Major and Minor Experiments, Identification relating to Environmental Geology & Geography, Environmental Pollution and Environmental Physiology, Field Study, Lab Records and Viva Voce.	Dr. Santanu Chowdhury/ Priyanka Saha Das/ Suchismita Saha
Part III		
Paper VII (Theoretical)	Unit I : Environmental Laws, Rules, Policies and Movements	Dr. Santanu Chowdhury
	Unit II: Environmental Economics	Dr. Santanu Chowdhury
	Unit III : Environmental Statistics and Mathematical Modeling	Suchismita Saha
Paper VIII (Theoretical)	Unit I : Environmental Microbiology and Environmental Biotechnology	Raja Banarjee
	Unit II : Social Environmental Issues and Management	Priyanka Saha Das
	Unit III : Environmental Technology for Pollution Control	Dr. Anirban Biswas
Paper IX (Theoretical)	Unit I : Energy Management	Priyanka Saha Das
	Unit II : Instrumentation and Analytical Techniques	Suchismita Saha
	Unit III: Resource Assessment and Conservation	Dr. Anirban Biswas
Paper X (Practical)	Major and Minor Experiments relating to Remote Sensing Study, Toxicology, Statistics and Viva Voce.	Suchismita Saha
Paper XI (Practical)	Major and Minor Experiments relating to Environmental Microbiology and Environmental Biotechnology	Dr. Santanu Chowdhury

Syllabus Modularization

July 2019- December 2019 [Semester I, Semester III, Part III]

Paper	Topic	Name of the Teacher
SEM- I		
CORE COURSE- 01 (Code: UG-ENVS-H-CC-01)	Unit-1- Introduction	Dr. Anirban Biswas
	Unit-2- Earth System Process	Dr. Anirban Biswas
	UNIT-3- Minerals And Rocks	Suchismita Saha

Earth And Earth Surface Processes	Unit-4- Earth Surface Process	Raja Banarjee
	UNIT-5- Importance Of Being Mountain	Raja Banarjee
ENVS-H-CC-P -01 (Practical)	Hand specimen: rocks and minerals	Suchismita Saha
	Microscopic studies of thin section of rock and minerals	Raja Banarjee
	Topographical sheet interpretation	Suchismita Saha
CORE COURSE- 02 (Code: UG-ENVS-H-CC-02) Environmental Chemistry and Environmental Physics	Unit-1- Fundamental Of Environmental Chemistry	Suchismita Saha
	Unit-2- Atmospheric Chemistry	Dr. Anirban Biswas
	Unit-3- Water Chemistry	Dr. Anirban Biswas
	Unit-4- Soil Chemistry	Dr. Anirban Biswas
	Unit-5- Fundamental Of Environmental Physics	Suchismita Saha
	Unit-6- Movement Of Pollutant In Environment	Suchismita Saha
ENVS-H-CC-P -02 (Practical)	Preparation of primary and secondary standard solutions.	Raja Banarjee
	Estimation of metals using standard potassium dichromate/ potassium permanganate solution.	Raja Banarjee
	Measurement of physicochemical parameters of soil and water samples (pH, conductivity, hardness, alkalinity), soil organic matter.	Suchismita Saha
ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-02)	Environmental Studies	Raja Banarjee
SEM III		
CORE COURSE 5 (Code: UG-ENVS-H-CC-05) Ecology And Ecosystems	Unit 1- Introduction	Dr. Anirban Biswas
	Unit 2- Ecology Of Individuals	
	Unit 3- Ecology Of Population	
	Unit 4- Ecology of Communities	
	Unit 5- Ecosystem Ecology	
	Unit 6- Biogeochemical Cycle And Nutrient Cycling	
	UNIT 7- Biological Invasions	
UG-ENVS-H-CC-P -05 (Practical)	<ul style="list-style-type: none"> Qualitative and quantitative analysis of planktons of aquatic systems. Determination of species, dominance and frequency using quadrat/ plot method. Determination of dissolved oxygen, free carbon dioxide and primary productivity of water samples collected from aquatic ecosystems. Ecological field visit: pond/forest/river/wetland or other ecosystem 	Dr. Anirban Biswas Raja Banarjee
CORE COURSE 06 (Code: UG-ENVS-H-CC-06) Biodiversity And Conservation	Unit-1- Levels Of Organization In Living World	Raja Banarjee
	Unit-2- Biodiversity Patterns	
	Unit-3- Biodiversity Estimation	
	Unit-4- Importance Of Biodiversity	Suchismita Saha
	Unit-5- Threats To Biodiversity	
	Unit-6- Biodiversity Conservation	
	Unit-7- Biodiversity In India	

UG-ENVS-H-CC-P-06 (Practical)	<ul style="list-style-type: none"> Biodiversity measurement techniques: Biodiversity richness and diversity indexes. IUCN red list categorisation- Guideline criteria Ecorestoration – site visit. 	Suchismita Saha
CORE COURSE 07 (Code: UG-ENVS-H-CC-07) Atmosphere And Global Climate Change	Unit-1- Fundamentals Of Atmospheric Chemistry	Suchismita Saha
	Unit-2- Meteorology And Atmospheric Stability	Suchismita Saha
	Unit-3- Global Warming And Climate Change	Raja Banarjee
	Unit-4-Ozone Layer Depletion	Raja Banarjee
	Unit-5- Climate Change And Policy	Dr. Anirban Biswas
UG-ENVS-H-CC-P-07 (Practical)	<ul style="list-style-type: none"> Preparation of meteorological charts, graphs and windrose Handling of meteorological data recording instruments (Rain gauge, Anemometer, wet bulb dry bulb thermometer, Barometer) and their uses Field visit to meteorological centre. 	Suchismita Saha
SKILL ENHANCEMENT COURSE 01 (Code: UG-ENVS-H-SEC-01a) Remote Sensing, Geographic Information System & Modelling	UNIT 1	Suchismita Saha/ Raja Banarjee/ Dr. Anirban Biswas
	UNIT 2	
	UNIT 3	
	UNIT 4	
	Unit 5: Demonstrative exercise · Visual interpretation of standard False Colour Composite (FCC) data. · Thematic map generation. · Digitisation of thematic layer. · Overlay analysis of thematic layer in GIS environment. · GIS laboratory visit.	
Part III		
Paper VII (Theoretical)	Unit I : Environmental Laws, Rules, Policies and Movements	Suchismita Saha
	Unit II : Environmental Economics	
	Unit III : Environmental Statistics and Mathematical Modeling	
Paper VIII (Theoretical)	Unit I : Environmental Microbiology and Environmental Biotechnology	Dr. Anirban Biswas
	Unit II : Social Environmental Issues and Management	
	Unit III : Environmental Technology for Pollution Control	
Paper IX (Theoretical)	Unit I : Energy Management	Raja Banarjee
	Unit II : Instrumentation and Analytical Techniques	
	Unit III : Resource Assessment and Conservation	
Paper X (Practical)	Major and Minor Experiments relating to Remote Sensing study, Toxicology, Statistics	Dr. Anirban Biswas/ Suchismita Saha/
Paper XI (Practical)	Major and Minor Experiments relating to Environmental Microbiology and Environmental Biotechnology	Raja Banarjee

Syllabus Modularization

January 2020- June 2020 [Semester II, Semester IV, Part III]

Paper	Topic	Name of the Teacher
	SEM- II	

Core Course- 03 (Code: UG-ENVS-H-CC-03) Water And Water Resources	Unit-1- Introduction	Dr. Anirban Biswas
	Unit-2- Properties Of Water	Dr. Anirban Biswas
	Unit-3- Surface And Subsurface Water	Dr. Anirban Biswas
	Unit-4- Wetlands And Their Management	Suchismita Saha
	Unit-5- Marine Resource Management	Suchismita Saha
	Unit-6- Water Resource In India	Suchismita Saha
	Unit-7- Water Resource Conflicts	Raja Banarjee
	Unit-8- Major Laws And Treaties	Raja Banarjee
UG-ENVS-H-CC-P -03 (Practical)	<ul style="list-style-type: none"> Field study related to rainwater harvesting / groundwater wells and document preparation. Field visit to wetland and document preparation. Water demand in domestic/ agricultural fields/ industrial areas through preparation of survey sheets followed by documentation 	Suchismita Saha/ Dr. Anirban Biswas
Core Course- 04 (Code: UG-ENVS-H-CC-04) Land And Soil Conservation And Management	Unit-1- Introduction	Suchismita Saha
	Unit-2- Fundamentals Of Soil Science	
	Unit-3- Soil Degradation - Causes	
	Unit-4- Land use Changes And Land Degradation	Raja Banarjee
	Unit-5- Costs Of Land Degradation	
	Unit-6- Controlling Land Degradation	
UG-ENVS-H-CC-P -04 (Practical)	<ul style="list-style-type: none"> Determination of soil organic matter, nutrients (N, P, K), Soil water holding capacity, Soil texture analysis. Soil profile study. <p>Identification of degraded land using remote sensing data and topographical sheets</p>	Suchismita Saha Raja Banarjee
ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-02)	Environmental Studies	Raja Banarjee
SEM IV		
Core Course 08 (Code: UG-ENVS-H-CC-08) Bio-Systematics And Biogeography	Unit-1- Biosystematics - Concept And Approaches	Dr. Anirban Biswas
	Unit-2- Taxonomic Hierarchy	
	Unit-3- Nomenclature And Systems Of Classification	
	Unit-4- Numerical And Molecular Systematics	
	Unit-5- Biogeography- An Overview	
	Unit-6- Conservation Biogeography	
UG-ENVS-H-CC-P -08 (Practical)	<ul style="list-style-type: none"> Demonstration of typification procedure. Field visit for floral and faunal assessment of an area. Criteria used for designation of a protected area- preparation of worksheet. Study of invasive species distribution and documentation. 	Dr. Anirban Biswas
Core Course 09 (Code: UG-ENVS-H-CC-09)	Unit-1- Introduction	Suchismita Saha
	Unit-2- Natural Resources And Conservation	Suchismita Saha
	Unit-3- Energy Resources-Non-Renewable & Renewable	Raja Banarjee

Natural Resource Management And Sustainability	Unit-4- Resource Management	Raja Banarjee
UG-ENVS-H-CC-P -09 (Practical)	Forest area mapping techniques. Water bodies mapping techniques. Water audit of college/ industry. Energy audit of college/ industry. Environmental audit of college. Visit to mine area, forest area and aquaculture farm.	Suchismita Saha/ Raja Banarjee
Core Course 10 (Code: UG-ENVS-H-CC-10) Environmental Pollution And Human Health	Unit-1- Introduction	Suchismita Saha
	Unit-2- Air Pollution	
	Unit-3- Water Pollution	Dr. Anirban Biswas
	Unit-4- Soil Pollution	Raja Banarjee
	Unit-5- Noise Pollution	
	Unit-6- Radioactive And Thermal Pollution	
	Unit-7- Marine Pollution	
	Unit-8- Chemistry Of Environmental Pollutants	Suchismita Saha
	Unit-9- Pollution Control	
UG-ENVS-H-CC-P -10 (Practical)	Estimation of Ground & surface water quality parameters (COD, BOD, DO, nitrate, fluoride, arsenic, chlorine, cadmium, mercury, pesticides). Estimation of air quality parameters (NO _x , SO _x , SPM). Field visit to effluent treatment plants (ETP)/ sewage treatment plants (STP). Total coliform load of water sample. Noise monitoring (Leq).	Suchismita Saha
Skill Enhancement Course 02 (Code: UG-ENVS-H-SEC-02a) Environmental Impact And Risk Assessment	Unit-1	Suchismita Saha
	Unit-2	
	Unit-3	
	Unit-4	
	Unit-5	
Part III		
Paper VII (Theoretical)	Unit I : Environmental Laws, Rules, Policies and Movements	Suchismita Saha
	Unit II : Environmental Economics	
	Unit III : Environmental Statistics and Mathematical Modeling	
Paper VIII (Theoretical)	Unit I : Environmental Microbiology and Environmental Biotechnology	Dr. Anirban Biswas
	Unit II : Social Environmental Issues and Management	
	Unit III : Environmental Technology for Pollution Control	
Paper IX (Theoretical)	Unit I : Energy Management	Raja Banarjee
	Unit II : Instrumentation and Analytical Techniques	
	Unit III : Resource Assessment and Conservation	
Paper X (Practical)	Major and Minor Experiments relating to Remote Sensing study, Toxicology, Statistics	Dr. Anirban Biswas/ Suchismita Saha/ Raja Banarjee
Paper XI (Practical)	Major and Minor Experiments relating to Environmental Microbiology and Environmental Biotechnology	

Syllabus Modularization

July 2020- December 2020 [Semester I, Semester III, Semester V]

Paper	Topic	Name of the Teacher
SEM- I		
CORE COURSE- 01 (Code: UG-ENVS-H-CC-01) Earth And Earth Surface Processes	Unit-1- Introduction	Dr. Anirban Biswas
	Unit-2- Earth System Process	Dr. Anirban Biswas
	UNIT-3- Minerals And Rocks	Suchismita Saha
	Unit-4- Earth Surface Process	Raja Banarjee
	UNIT-5- Importance Of Being Mountain	Raja Banarjee
ENVS-H-CC-P -01 (Practical)	Hand specimen: rocks and minerals	Suchismita Saha
	Microscopic studies of thin section of rock and minerals.	Raja Banarjee
	Topographical sheet interpretation	Suchismita Saha
CORE COURSE- 02 (Code: UG-ENVS-H-CC-02) Environmental Chemistry and Environmental Physics	Unit-1- Fundamental Of Environmental Chemistry	Suchismita Saha
	Unit-2- Atmospheric Chemistry	Dr. Anirban Biswas
	Unit-3- Water Chemistry	Dr. Anirban Biswas
	Unit-4- Soil Chemistry	Dr. Anirban Biswas
	Unit-5- Fundamental Of Environmental Physics	Suchismita Saha
	Unit-6- Movement Of Pollutant In Environment	Suchismita Saha
ENVS-H-CC-P -02 (Practical)	Preparation of primary and secondary standard solutions.	Raja Banarjee
	Estimation of metals using standard potassium dichromate/ potassium permanganate solution.	Raja Banarjee
	Measurement of physicochemical parameters of soil and water samples (pH, conductivity, hardness, alkalinity), soil organic matter.	Suchismita Saha
ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-02)	Environmental Studies	Raja Banarjee Suchismita Saha
SEM III		
CORE COURSE 5 (Code: UG-ENVS-H-CC-05) Ecology And Ecosystems	Unit 1- Introduction	Dr. Anirban Biswas
	Unit 2- Ecology Of Individuals	
	Unit 3- Ecology Of Population	
	Unit 4- Ecology of Communities	
	Unit 5- Ecosystem Ecology	
	Unit 6- Biogeochemical Cycle And Nutrient Cycling	
	UNIT 7- Biological Invasions	
UG-ENVS-H-CC-P -05 (Practical)	<ul style="list-style-type: none"> ● Qualitative and quantitative analysis of planktons of aquatic systems. ● Determination of species, dominance and frequency using quadrate/ plot method. ● Determination of dissolved oxygen, free carbon dioxide and primary productivity of water samples collected from aquatic ecosystems. ● Ecological field visit: pond/forest/river/wetland or other ecosystem 	Dr. Anirban Biswas Raja Banarjee
CORE COURSE 06 (Code: UG-ENVS-H-CC-06)	Unit-1- Levels Of Organization In Living World	Raja Banarjee
	Unit-2- Biodiversity Patterns	
	Unit-3- Biodiversity Estimation	

Biodiversity And Conservation	Unit-4- Importance Of Biodiversity	Suchismita Saha
	Unit-5- Threats To Biodiversity	
	Unit-6- Biodiversity Conservation	
	Unit-7- Biodiversity In India	
UG-ENVS-H-CC-P -06 (Practical)	<ul style="list-style-type: none"> Biodiversity measurement techniques: Biodiversity richness and diversity indexes. IUCN red list categorisation- Guideline criteria Ecorestoration – site visit. 	Suchismita Saha
CORE COURSE 07 (Code: UG-ENVS-H-CC-07) Atmosphere And Global Climate Change	Unit-1- Fundamentals Of Atmospheric Chemistry	Suchismita Saha
	Unit-2- Meteorology And Atmospheric Stability	Suchismita Saha
	Unit-3- Global Warming And Climate Change	Raja Banarjee
	Unit-4-Ozone Layer Depletion	Raja Banarjee
	Unit-5- Climate Change And Policy	Dr. Anirban Biswas
UG-ENVS-H-CC-P -07 (Practical)	<ul style="list-style-type: none"> Preparation of meteorological charts, graphs and windrose Handling of meteorological data recording instruments (Rain gauge, Anemometer, wet bulb dry bulb thermometer, Barometer) and their uses Field visit to meteorological centre. 	Suchismita Saha
SKILL ENHANCEMENT COURSE 01 (Code: UG-ENVS-H- SEC-01a) Remote Sensing, Geographic Information System & Modelling	UNIT 1	Suchismita Saha/ Raja Banarjee/ Dr. Anirban Biswas
	UNIT 2	
	UNIT 3	
	UNIT 4	
	Unit 5: Demonstrative exercise · Visual interpretation of standard False Colour Composite (FCC) data. · Thematic map generation. · Digitisation of thematic layer. · Overlay analysis of thematic layer in GIS environment. · GIS laboratory visit.	
SEM V		
Core Course 11 (Code: Ug-Envs-H-Cc-11) Environmental Biotechnology	Unit 1: The structure and function of DNA, RNA and protein	Raja Banarjee
	Unit 2: Recombinant DNA technology	
	Unit 3: Bioremediation and ecological restoration	
	Unit 4: Ecologically safe products and processes	
UG-ENVS-H-CC-P -11 (Practical)	<ul style="list-style-type: none"> Isolation and characterisation of soil bacteria. Gram staining of bacterial sample. Enumeration of heterotrophic bacteria from water and soil samples (Spread plate/pore plate technique). Determination of chlorophylls, enzymes (catalase, peroxidase and ascorbic acid of plant samples). Bioassay of toxic compounds by enzyme assay or seed germination test. Estimation of carbohydrate, protein and DNA. 	

	<ul style="list-style-type: none"> Study of mitotic and meiotic stages (A. cepa and grasshopper testis or pollen) 	
CORECOURSE 12 (Code: UG-ENVS-H-CC-12) EVOLUTIONARY BIOLOGY	Unit 1: History of life on Earth	Dr. Anirban Biswas
	Unit 2: Introduction	
	Unit 3: Evolution of unicellular life	
	Unit 4: Geography of evolution	
	Unit 5: Molecular evolution	
	Unit 6: Fundamentals of population genetics	
UG-ENVS-H-CC-P -12 (Practical)	Field survey based analysis, exercise and interpretation: <ul style="list-style-type: none"> Hardy-Weinberg Law and its applications. Determination of change in allelic frequency due to natural selection, mutation and genetic drift based on data provided from suggested readings (Sl. 10 & 11). 	
Discipline Specific Elective 01 (Code: UG-ENVS-H-DSE-01b) Ecotoxicology And Environmental Health	Unit 1: Introduction to Environmental toxicology	Suchismita Saha
	Unit 2: Toxicity of heavy metals	
	Unit 3: Pesticide toxicity	
	Unit 4: Emerging contaminants	
	Unit 5: Environmental epidemiology	
	Unit 6: Environmental Health	
UG-ENVS-H-DSE-P-01b (Practical)	<ul style="list-style-type: none"> Toxicity bioassay through germination (LD50) Toxicity bioassay through microbial test Epidemiological survey in arsenic affected areas. 	Suchismita Saha
Discipline Specific Elective 02 (Code: UG-ENVS-H-DSE-02b) Waste And Wastewater Management	Unit 1: Waste water treatment	Raja Banarjee
	Unit 2: Effect of solid waste disposal on environment	Raja Banarjee
	Unit 3: Solid waste management	Dr. Anirban Biswas
	Unit 4: Industrial waste management	Dr. Anirban Biswas
	Unit 5: Resource recovery	Suchismita Saha
	Unit 6: Integrated waste management	Suchismita Saha
	Unit 7: Policies for solid waste management	Suchismita Saha
UG-ENVS-H-DSE-L -02b (Practical)	<ul style="list-style-type: none"> Physico-chemical characterisation of waste water (TSS, TDS, oil & grease, phenolics). Sludge characterisation (moisture content, ash, VOC, metal etc.) Visit to waste disposal sites and report preparation. 	Dr. Anirban Biswas Suchismita Saha Raja Banarjee

Syllabus Modularization

January 2021- June 2021 [Semester II, Semester IV, Semester VI]

Paper	Topic	Name of the Teacher
	SEM- II	
Core Course- 03 (Code: UG-ENVS-H-CC-03)	Unit-1- Introduction	Suchismita Saha
	Unit-2- Properties Of Water	
	Unit-3- Surface And Subsurface Water	

Water And Water Resources	Unit-4- Wetlands And Their Management	
	Unit-5- Marine Resource Management	
	Unit-6- Water Resource In India	
	Unit-7- Water Resource Conflicts	
	Unit-8- Major Laws And Treaties	
UG-ENVS-H-CC-P -03 (Practical)	<ul style="list-style-type: none"> Field study related to rainwater harvesting / groundwater wells and document preparation. Field visit to wetland and document preparation. Water demand in domestic/ agricultural fields/ industrial areas through preparation of survey sheets followed by documentation 	Suchismita Saha
Core Course- 04 (Code: UG-ENVS-H-CC-04) Land And Soil Conservation And Management	Unit-1- Introduction	Dr. Anirban Biswas
	Unit-2- Fundamentals Of Soil Science	
	Unit-3- Soil Degradation - Causes	
	Unit-4- Land use Changes And Land Degradation	
	Unit-5- Costs Of Land Degradation	
	Unit-6- Controlling Land Degradation	
UG-ENVS-H-CC-P -04 (Practical)	<ul style="list-style-type: none"> Determination of soil organic matter, nutrients (N, P, K), Soil water holding capacity, Soil texture analysis. Soil profile study. <p>Identification of degraded land using remote sensing data and topographical sheets</p>	Dr. Anirban Biswas
ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-02)	Environmental Studies	Suchismita Saha
SEM IV		
Core Course 08 (Code: UG-ENVS-H-CC-08) Bio-Systematics And Biogeography	Unit-1- Biosystematics - Concept And Approaches	Dr. Anirban Biswas
	Unit-2- Taxonomic Hierarchy	
	Unit-3- Nomenclature And Systems Of Classification	
	Unit-4- Numerical And Molecular Systematics	
	Unit-5- Biogeography- An Overview	
	Unit-6- Conservation Biogeography	
UG-ENVS-H-CC-P -08 (Practical)	<ul style="list-style-type: none"> Demonstration of typification procedure. Field visit for floral and faunal assessment of an area. Criteria used for designation of a protected area- preparation of worksheet. Study of invasive species distribution and documentation. 	Dr. Anirban Biswas
Core Course 09 (Code: UG-ENVS-H-CC-09) Natural Resource Management And Sustainability	Unit-1- Introduction	Suchismita Saha
	Unit-2- Natural Resources And Conservation	
	Unit-3- Energy Resources-Non-Renewable & Renewable	
	Unit-4- Resource Management	

UG-ENVS-H-CC-P -09 (Practical)	Forest area mapping techniques. Water bodies mapping techniques. Water audit of college/ industry. Energy audit of college/ industry. Environmental audit of college. Visit to mine area, forest area and aquaculture farm.	Suchismita Saha
Core Course 10 (Code: UG-ENVS-H-CC-10) Environmental Pollution And Human Health	Unit-1- Introduction	Dr. Anirban Biswas
	Unit-2- Air Pollution	
	Unit-3- Water Pollution	
	Unit-4- Soil Pollution	
	Unit-5- Noise Pollution	
	Unit-6- Radioactive And Thermal Pollution	
	Unit-7- Marine Pollution	
	Unit-8- Chemistry Of Environmental Pollutants	
	Unit-9- Pollution Control	
UG-ENVS-H-CC-P -10 (Practical)	Estimation of Ground & surface water quality parameters (COD, BOD, DO, nitrate, fluoride, arsenic, chlorine, cadmium, mercury, pesticides). Estimation of air quality parameters (NO _x , SO _x , SPM). Field visit to effluent treatment plants (ETP)/ sewage treatment plants (STP). Total coliform load of water sample. Noise monitoring (Leq).	Dr. Anirban Biswas
Skill Enhancement Course 02 (Code: UG-ENVS-H-SEC-02a) Environmental Impact And Risk Assessment	Unit-1	Suchismita Saha
	Unit-2	
	Unit-3	
	Unit-4	
	Unit-5	
SEM VI		
Core Course 13 (Code: UG-ENVS-H-CC-13) Environmental Legislation And Policy	Unit 1: Introduction	Suchismita Saha
	Unit 2: History of environmental legislation and policy	
	Unit 3: Environmental legislation	
	Unit 4: Legislative instruments	
	Unit 5: Government institutions	
	Unit 6: Case studies	
	Unit 7: International laws and policy	
UG-ENVS-H-CC-P -13 (Practical)	Field survey based analysis, exercise and interpretation: <ul style="list-style-type: none"> ● Field visit for assessment of environmental policy adoption, environment safety policy adoption in industry and document preparation. ● Survey on perception of environmental laws in communities/ societies and document preparation. 	Suchismita Saha
CORECOURSE-14 (Code: UG-ENVS-H-CC-14) Urban Ecosystems	Unit 1: Introduction	Dr. Anirban Biswas
	Unit 2: Environment in an urban setting	
	Unit 3: Urban dwelling	
	Unit 4: Urban interface with the environment	
	Unit 5: Natural spaces in a city	
	Unit 6: Planning and environmental management	

UG-ENVS-H-CC-P -14 (Practical)	<p>Field survey based analysis, exercise and interpretation:</p> <ul style="list-style-type: none"> Exercises: Students will carry out a group work in which the development of the infrastructure of the city of the future is explored and presented. The assignment concentrates on the development of one infrastructure (clean water, waste water or energy) in two possible surroundings (newly built city or transition from present to future situation). Tutorial focusing on introducing the state-of-the-art technologies for drinking water supply, wastewater treatment, energy supply and material/nutrient recycling and recovery. Individual assignment the student will perform a technological assessment for the solution of a specific urban environmental problem performing basic calculations on urban flows and their transformations and considering the sustainability outcome. Field visits to experience various environmental technologies working in practice. 	Dr. Anirban Biswas
Discipline Specific Elective 03 (Code: UG-ENVS-H-DSE-03b) Instrumental Techniques For Environmental Analysis	Unit 1: Introduction	Suchismita Saha
	Unit 2: Principle and application	
	Unit 3: Water and Soil sampling techniques and sample preparation	
	Unit 4: Air quality sampling and analysis	
	Unit 5: Noise monitoring	
	Unit 6: Radioactivity	
UG-ENVS-H-DSE-P -03b Practical	<ul style="list-style-type: none"> Field survey based analysis, exercise and interpretation Principles and application of instruments and document preparation. Demonstration of selected instruments and document preparation. 	Suchismita Saha
Discipline Specific Elective 04(Code: UG-ENVS-H-DSE-04) Dissertation	UG-ENVS-H-DSE-L -04 Dissertation UG-ENVS-H-DSE-P -04 Practical	Dr. Anirban Biswas

Syllabus Modularization

July 2021- December 2021 [Semester I, Semester III, Semester V]

Paper	Topic	Name of the Teacher
	SEM- I	
CORE COURSE- 01 (Code: UG-ENVS-H-CC-01) Earth And Earth Surface Processes	Unit-1- Introduction	Dr. Anirban Biswas
	Unit-2- Earth System Process	Dr. Anirban Biswas
	UNIT-3- Minerals And Rocks	Suchismita Saha
	Unit-4- Earth Surface Process	Suchismita Saha
	UNIT-5- Importance Of Being Mountain	Suchismita Saha

ENVS-H-CC-P -01 (Practical)	Hand specimen: rocks and minerals	Kiran Bhattacharyya
	Microscopic studies of thin section of rock and minerals.	Dr. Anirban Biswas
	Topographical sheet interpretation	Suchismita Saha
CORE COURSE- 02 (Code: UG-ENVS-H-CC-02) Environmental Chemistry and Environmental Physics	Unit-1- Fundamental Of Environmental Chemistry	Kiran Bhattacharyya
	Unit-2- Atmospheric Chemistry	Kiran Bhattacharyya
	Unit-3- Water Chemistry	Kiran Bhattacharyya
	Unit-4- Soil Chemistry	Suchismita Saha
	Unit-5- Fundamental Of Environmental Physics	Suchismita Saha
	Unit-6- Movement Of Pollutant In Environment	Suchismita Saha
ENVS-H-CC-P -02 (Practical)	Preparation of primary and secondary standard solutions.	Dr. Anirban Biswas, Suchismita Saha, Kiran Bhattacharyya
	Estimation of metals using standard potassium dichromate/ potassium permanganate solution.	
	Measurement of physicochemical parameters of soil and water samples (pH, conductivity, hardness, alkalinity), soil organic matter.	
ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-02)	Environmental Studies	Suchismita Saha Dr. Anirban Biswas
SEM III		
CORE COURSE 5 (Code: UG-ENVS-H-CC-05) Ecology And Ecosystems	Unit 1- Introduction	Dr. Anirban Biswas, Kiran Bhattacharyya
	Unit 2- Ecology Of Individuals	
	Unit 3- Ecology Of Population	
	Unit 4- Ecology of Communities	
	Unit 5- Ecosystem Ecology	
	Unit 6- Biogeochemical Cycle And Nutrient Cycling	
	UNIT 7- Biological Invasions	
UG-ENVS-H-CC-P -05 (Practical)	<ul style="list-style-type: none"> Qualitative and quantitative analysis of planktons of aquatic systems. Determination of species, dominance and frequency using quadrat/ plot method. Determination of dissolved oxygen, free carbon dioxide and primary productivity of water samples collected from aquatic ecosystems. Ecological field visit: pond/forest/river/wetland or other ecosystem 	Dr. Anirban Biswas, Suchismita Saha, Kiran Bhattacharyya
CORE COURSE 06 (Code: UG-ENVS-H-CC-06) Biodiversity And Conservation	Unit-1- Levels Of Organization In Living World	Kiran Bhattacharyya
	Unit-2- Biodiversity Patterns	
	Unit-3- Biodiversity Estimation	
	Unit-4- Importance Of Biodiversity	
	Unit-5- Threats To Biodiversity	
	Unit-6- Biodiversity Conservation	
	Unit-7- Biodiversity In India	
UG-ENVS-H-CC-P -06 (Practical)	<ul style="list-style-type: none"> Biodiversity measurement techniques: Biodiversity richness and diversity indexes. IUCN red list categorisation- Guideline criteria 	Dr. Anirban Biswas, Suchismita Saha, Kiran Bhattacharyya

	<ul style="list-style-type: none"> Ecorestoration – site visit. 	
CORE COURSE 07 (Code: UG-ENVS-H-CC-07) Atmosphere And Global Climate Change	Unit-1- Fundamentals Of Atmospheric Chemistry	Suchismita Saha, Kiran Bhattacharyya
	Unit-2- Meteorology And Atmospheric Stability	
	Unit-3- Global Warming And Climate Change	
	Unit-4-Ozone Layer Depletion	
	Unit-5- Climate Change And Policy	
UG-ENVS-H-CC-P -07 (Practical)	<ul style="list-style-type: none"> Preparation of meteorological charts, graphs and windrose Handling of meteorological data recording instruments (Rain gauge, Anemometer, wet bulb dry bulb thermometer, Barometer) and their uses Field visit to meteorological centre. 	Dr. Anirban Biswas, Suchismita Saha, Kiran Bhattacharyya
SKILL ENHANCEMENT COURSE 01 (Code: UG-ENVS-H- SEC-01a) Remote Sensing, Geographic Information System & Modelling	UNIT 1	Dr. Anirban Biswas
	UNIT 2	
	UNIT 3	
	UNIT 4	
	Unit 5: Demonstrative exercise · Visual interpretation of standard False Colour Composite (FCC) data. · Thematic map generation. · Digitisation of thematic layer. · Overlay analysis of thematic layer in GIS environment. · GIS laboratory visit.	
SEM V		
Core Course 11 (Code: Ug-Envs-H-Cc-11) Environmental Biotechnology	Unit 1: The structure and function of DNA, RNA and protein	Dr. Anirban Biswas
	Unit 2: Recombinant DNA technology	Dr. Anirban Biswas
	Unit 3: Bioremediation and ecological restoration	Mousumi Bhattacharyya
	Unit 4: Ecologically safe products and processes	Mousumi Bhattacharyya
UG-ENVS-H-CC-P -11 (Practical)	<ul style="list-style-type: none"> Isolation and characterisation of soil bacteria. Gram staining of bacterial sample. Enumeration of heterotrophic bacteria from water and soil samples (Spread plate/pore plate technique). Determination of chlorophylls, enzymes (catalase, peroxidase and ascorbic acid of plant samples). Bioassay of toxic compounds by enzyme assay or seed germination test. Estimation of carbohydrate, protein and DNA. Study of mitotic and meiotic stages (A. cepa and grasshopper testis or pollen) 	Dr. Anirban Biswas, Suchismita Saha, Mousumi Bhattacharyya
CORECOURSE 12 (Code: UG-ENVS-H-CC-12) EVOLUTIONARY BIOLOGY	Unit 1: History of life on Earth	Dr. Anirban Biswas
	Unit 2: Introduction	Dr. Anirban Biswas
	Unit 3: Evolution of unicellular life	Dr. Anirban Biswas
	Unit 4: Geography of evolution	Suchismita Saha
	Unit 5: Molecular evolution	Suchismita Saha

	Unit 6: Fundamentals of population genetics	Suchismita Saha
UG-ENVS-H-CC-P -12 (Practical)	Field survey based analysis, exercise and interpretation: <ul style="list-style-type: none"> Hardy-Weinberg Law and its applications. Determination of change in allelic frequency due to natural selection, mutation and genetic drift based on data provided from suggested readings (Sl. 10 & 11). 	Dr. Anirban Biswas, Suchismita Saha, Mousumi Bhattacharyya
Discipline Specific Elective 01 (Code: UG-ENVS-H-DSE-01b) Ecotoxicology And Environmental Health	Unit 1: Introduction to Environmental toxicology	Suchismita Saha
	Unit 2: Toxicity of heavy metals	Suchismita Saha
	Unit 3: Pesticide toxicity	Suchismita Saha
	Unit 4: Emerging contaminants	Suchismita Saha
	Unit 5: Environmental epidemiology	Suchismita Saha
	Unit 6: Environmental Health	Mousumi Bhattacharyya
UG-ENVS-H-DSE-P-01b (Practical)	<ul style="list-style-type: none"> Toxicity bioassay through germination (LD50) Toxicity bioassay through microbial test Epidemiological survey in arsenic affected areas. 	Suchismita Saha, Mousumi Bhattacharyya
Discipline Specific Elective 02 (Code: UG-ENVS-H-DSE-02b) Waste And Wastewater Management	Unit 1: Waste water treatment	Mousumi Bhattacharyya
	Unit 2: Effect of solid waste disposal on environment	Mousumi Bhattacharyya
	Unit 3: Solid waste management	Mousumi Bhattacharyya
	Unit 4: Industrial waste management	Mousumi Bhattacharyya
	Unit 5: Resource recovery	Mousumi Bhattacharyya
	Unit 6: Integrated waste management	Mousumi Bhattacharyya
	Unit 7: Policies for solid waste management	Dr. Anirban Biswas
UG-ENVS-H-DSE-L -02b (Practical)	<ul style="list-style-type: none"> Physico-chemical characterisation of waste water (TSS, TDS, oil & grease, phenolics). Sludge characterisation (moisture content, ash, VOC, metal etc.) Visit to waste disposal sites and report preparation. 	Dr. Anirban Biswas, Mousumi Bhattacharyya

Syllabus Modularization

January 2022- June 2022 [Semester II, Semester IV, Semester VI]

Paper	Topic	Name of the Teacher
	SEM- II	
Core Course- 03 (Code: UG-ENVS-H-CC-03)	Unit-1- Introduction	Dr. Anirban Biswas
	Unit-2- Properties Of Water	Dr. Anirban Biswas

Water And Water Resources	Unit-3- Surface And Subsurface Water	Dr. Anirban Biswas
	Unit-4- Wetlands And Their Management	Dr. Anirban Biswas
	Unit-5- Marine Resource Management	Mousumi Bhattacharyya
	Unit-6- Water Resource In India	Mousumi Bhattacharyya
	Unit-7- Water Resource Conflicts	Kiran Bhattacharyya
	Unit-8- Major Laws And Treaties	Kiran Bhattacharyya
UG-ENVS-H-CC-P -03 (Practical)	<ul style="list-style-type: none"> Field study related to rainwater harvesting / groundwater wells and document preparation. Field visit to wetland and document preparation. Water demand in domestic/ agricultural fields/ industrial areas through preparation of survey sheets followed by documentation 	Dr. Anirban Biswas Suchismita Saha
Core Course- 04 (Code: UG-ENVS-H-CC-04) Land And Soil Conservation And Management	Unit-1- Introduction	Mousumi Bhattacharyya
	Unit-2- Fundamentals Of Soil Science	Mousumi Bhattacharyya
	Unit-3- Soil Degradation - Causes	Mousumi Bhattacharyya
	Unit-4- Land use Changes And Land Degradation	Dr. Anirban Biswas
	Unit-5- Costs Of Land Degradation	Dr. Anirban Biswas
	Unit-6- Controlling Land Degradation	Dr. Anirban Biswas
UG-ENVS-H-CC-P -04 (Practical)	<ul style="list-style-type: none"> Determination of soil organic matter, nutrients (N, P, K), Soil water holding capacity, Soil texture analysis. Soil profile study. <p>Identification of degraded land using remote sensing data and topographical sheets</p>	Dr. Anirban Biswas Kiran Bhattacharyya
ABILITY ENHANCEMENT COMPULSORY COURSE (Code: UG-ENVS-H-AECC-02)	Environmental Studies	Suchismita Saha
SEM IV		
Core Course 08 (Code: UG-ENVS-H-CC-08) Bio-Systematics And Biogeography	Unit-1- Biosystematics - Concept And Approaches	Dr. Anirban Biswas
	Unit-2- Taxonomic Hierarchy	Dr. Anirban Biswas
	Unit-3- Nomenclature And Systems Of Classification	Dr. Anirban Biswas
	Unit-4- Numerical And Molecular Systematics	Mousumi Bhattacharyya
	Unit-5- Biogeography- An Overview	Mousumi Bhattacharyya
	Unit-6- Conservation Biogeography	Mousumi Bhattacharyya
UG-ENVS-H-CC-P -08 (Practical)	<ul style="list-style-type: none"> Demonstration of typification procedure. 	Dr. Anirban Biswas Suchismita Saha

	<ul style="list-style-type: none"> Field visit for floral and faunal assessment of an area. Criteria used for designation of a protected area- preparation of worksheet. Study of invasive species distribution and documentation. 	
Core Course 09 (Code: UG-ENVS-H-CC-09) Natural Resource Management And Sustainability	Unit-1- Introduction	Suchismita Saha
	Unit-2- Natural Resources And Conservation	Suchismita Saha
	Unit-3- Energy Resources-Non-Renewable & Renewable	Suchismita Saha
	Unit-4- Resource Management	Mousumi Bhattacharyya
UG-ENVS-H-CC-P -09 (Practical)	<ul style="list-style-type: none"> Forest area mapping techniques. Water bodies mapping techniques. Water audit of college/ industry. Energy audit of college/ industry. Environmental audit of college. Visit to mine area, forest area and aquaculture farm. 	Suchismita Saha Kiran Bhattacharyya
Core Course 10 (Code: UG-ENVS-H-CC-10) Environmental Pollution And Human Health	Unit-1- Introduction	Kiran Bhattacharyya
	Unit-2- Air Pollution	Kiran Bhattacharyya
	Unit-3- Water Pollution	Kiran Bhattacharyya
	Unit-4- Soil Pollution	Kiran Bhattacharyya
	Unit-5- Noise Pollution	Suchismita Saha
	Unit-6- Radioactive And Thermal Pollution	Suchismita Saha
	Unit-7- Marine Pollution	Suchismita Saha
	Unit-8- Chemistry Of Environmental Pollutants	Suchismita Saha
	Unit-9- Pollution Control	Suchismita Saha
UG-ENVS-H-CC-P -10 (Practical)	<p>Estimation of Ground & surface water quality parameters (COD, BOD, DO, nitrate, fluoride, arsenic, chlorine, cadmium, mercury, pesticides).</p> <p>Estimation of air quality parameters (NO_x, SO_x, SPM).</p> <p>Field visit to effluent treatment plants (ETP)/ sewage treatment plants (STP).</p> <p>Total coliform load of water sample.</p> <p>Noise monitoring (Leq).</p>	Dr. Anirban Biswas Suchismita Saha Mousumi Bhattacharyya
Skill Enhancement Course 02 (Code: UG-ENVS-H-SEC-02a) Environmental Impact And Risk Assessment	Unit-1	Dr. Anirban Biswas
	Unit-2	Suchismita Saha
	Unit-3	Mousumi Bhattacharyya
	Unit-4	Kiran Bhattacharyya
	Unit-5	Bhattacharyya
SEM VI		
Core Course 13 (Code: UG-ENVS-H-CC-13) Environmental Legislation And Policy	Unit 1: Introduction	Kiran Bhattacharyya
	Unit 2: History of environmental legislation and policy	Kiran Bhattacharyya

	Unit 3: Environmental legislation	Kiran Bhattacharyya
	Unit 4: Legislative instruments	Suchismita Saha
	Unit 5: Government institutions	Suchismita Saha
	Unit 6: Case studies	Suchismita Saha
	Unit 7: International laws and policy	Suchismita Saha
UG-ENVS-H-CC-P -13 (Practical)	Field survey based analysis, exercise and interpretation: <ul style="list-style-type: none"> Field visit for assessment of environmental policy adoption, environment safety policy adoption in industry and document preparation. Survey on perception of environmental laws in communities/ societies and document preparation. 	Dr. Anirban Biswas Suchismita Saha Mousumi Bhattacharyya
CORECOURSE-14 (Code: UG-ENVS-H-CC-14) Urban Ecosystems	Unit 1: Introduction	Dr. Anirban Biswas
	Unit 2: Environment in an urban setting	Dr. Anirban Biswas
	Unit 3: Urban dwelling	Dr. Anirban Biswas
	Unit 4: Urban interface with the environment	Suchismita Saha
	Unit 5: Natural spaces in a city	Suchismita Saha
	Unit 6: Planning and environmental management	Suchismita Saha
UG-ENVS-H-CC-P -14 (Practical)	Field survey based analysis, exercise and interpretation: <ul style="list-style-type: none"> Exercises: Students will carry out a group work in which the development of the infrastructure of the city of the future is explored and presented. The assignment concentrates on the development of one infrastructure (clean water, waste water or energy) in two possible surroundings (newly built city or transition from present to future situation). Tutorial focusing on introducing the state-of-the-art technologies for drinking water supply, wastewater treatment, energy supply and material/nutrient recycling and recovery. Individual assignment the student will perform a technological assessment for the solution of a specific urban environmental problem performing basic calculations on urban flows and their transformations and considering the sustainability outcome. Field visits to experience various environmental technologies working in practice. 	Dr. Anirban Biswas Mousumi Bhattacharyya
Discipline Specific Elective 03 (Code: UG-ENVS-H-DSE-03b) Instrumental Techniques For Environmental Analysis	Unit 1: Introduction	Dr. Anirban Biswas
	Unit 2: Principle and application	Dr. Anirban Biswas
	Unit 3: Water and Soil sampling techniques and sample preparation	Dr. Anirban Biswas
	Unit 4: Air quality sampling and analysis	Mousumi Bhattacharyya
	Unit 5: Noise monitoring	Mousumi Bhattacharyya
	Unit 6: Radioactivity	Mousumi Bhattacharyya

UG-ENVS-H-DSE-P -03b Practical	<ul style="list-style-type: none"> ● Field survey based analysis, exercise and interpretation Principles and application of instruments and document preparation. ● Demonstration of selected instruments and document preparation. 	Dr. Anirban Biswas
Discipline Specific Elective 04(Code: UG-ENVS-H-DSE-04) Dissertation	UG-ENVS-H-DSE-L -04 Dissertation UG-ENVS-H-DSE-P -04 Practical	Dr. Anirban Biswas Suchismita Saha Kiran Bhattacharyya Mousumi Bhattacharyya

NABADWIP VIDYASAGAR COLLEGE

SYLLABUS MODULARIZATION OF DEPARTMENT OF GEOGRAPHY

GEOGRAPHY(H)

JULY 2019- JUNE 2020

Name of the Teacher	Topic	No of classes
GEO/H/CC/T/01: (Theory): Geotectonics and Geomorphology		
SHILPI MONDAL	Unit-1(Geotectonics)	5
	<ul style="list-style-type: none"> • Earth's tectonic and structural evolution with reference to geological time scale 	
SHILPI MONDAL	<ul style="list-style-type: none"> • Earth's interior with special reference to seismology 	5
FARUK BISWAS	<ul style="list-style-type: none"> • Concept of Isostasy: Theories of Airy and Pratt 	7
FARUK BISWAS	<ul style="list-style-type: none"> • Earth movements: Plate tectonics; Types of folds and faults; Earthquakes and Volcanoes 	18
FARUK BISWAS	Unit-2: Geomorphology	5
	<ul style="list-style-type: none"> • Geomorphology: Nature and Scope 	
SHILPI MONDAL	<ul style="list-style-type: none"> • Degradation processes: Weathering; Mass wasting and resultant landforms 	10
SHILPI MONDAL	<ul style="list-style-type: none"> • Models of landscape evolution: Views of Davis, Penck, King and Hack 	14
FARUK BISWAS	<ul style="list-style-type: none"> • Development of river network and landforms on uniclinal and folded structures 	9

SHILPI MONDAL	<ul style="list-style-type: none"> Evolution of Landforms (Erosional and Depositional): Fluvial, Karst, Aeolian, Glacial and Coastal 	17
CC/02: Cartographic Techniques and Geological Map Study		
	GEO/H/CC/T/02: (Theory): Cartographic Techniques and Geological Map Study	
SHILPI MONDAL	<ul style="list-style-type: none"> Cartography: Nature and Scope 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Maps: Classification and Types; Components of a Map 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Concept of Scales: Linear, Comparative, Diagonal and Vernier 	10
FARUK BISWAS	<ul style="list-style-type: none"> Coordinate Systems: Polar and Rectangular; Concept of Geoid and Spheroid; Map Projections: Classification, Properties and Uses; Concept and Significance of UTM Projection 	12
FARUK BISWAS	<ul style="list-style-type: none"> Survey of India Topographical Maps: Reference Scheme of Old and Open series 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Types of Rocks and Minerals; Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, Calcite, Bauxite, Magnetite, Hematite, Galena (using samples of rocks and minerals) 	10
FARUK BISWAS	<ul style="list-style-type: none"> Concept of Bedding Plane, Unconformity and Non-conformity, Thickness of Bed, Dip, Throw, Hade, Heave 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Construction of Scales: Linear, Comparative, Diagonal and Vernier 	15

	GEO/H/CC/P/02: (Practical): Cartographic Techniques and Geological Map Study	
SHILPI MONDAL	<ul style="list-style-type: none"> Construction of Projections: Polar Zenithal Stereographic Projection, Simple Conical with One Standard Parallel Projection, Bonne's Projection and Mercator's Projection 	14
FARUK BISWAS	<ul style="list-style-type: none"> Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite), Preparation of Relative Relief Map, Average Slope Map (Wentworth Method), and Stream Ordering (After Strahler) on a Drainage Basin 	16
SHILPI MONDAL	<ul style="list-style-type: none"> Transect chart: Relation between physical and cultural features from topographical maps (Survey of India) 	8
FARUK BISWAS	<ul style="list-style-type: none"> Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted Structure); Drawing of Geological Section and Interpretation of the Map 	20

GEO/H/CC/T/03 : (Theory): Human Geography

	Unit-1: Nature and Principles	
FARUK BISWAS	<ul style="list-style-type: none"> Introduction: Defining Human Geography; Major Themes; Contemporary Relevance 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Evolution of Humans; Concept of Race and Ethnicity; Major Racial Groups of the World 	9
FARUK BISWAS	<ul style="list-style-type: none"> Space, Society and Cultural Regions (Language and Religion) 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Concept: Culture, Cultural Diffusion, Community, Society, Cultural Realms 	7

	Unit-2: Society, Demography and Ekistics	
SHILPI MONDAL	<ul style="list-style-type: none"> ● Evolution of Human Society: Hunting and Gathering, Pastoral Nomadism, Subsistence Farming, Industrial and Urban Society 	16
SHILPI MONDAL	<ul style="list-style-type: none"> ● Population Growth and Distribution, Population Composition; Demographic Transition Model 	15
FARUK BISWAS	<ul style="list-style-type: none"> ● Population–Resource Regions (Ackerman) 	3
SHILPI MONDAL	<ul style="list-style-type: none"> ● Population and Environment Relations with special reference to Development–Environment Conflict 	6
FARUK BISWAS	<ul style="list-style-type: none"> ● Social Morphology and Rural House Types in India 	5
SHILPI MONDAL	<ul style="list-style-type: none"> ● Types and Patterns of Rural Settlements 	6
SHILPI MONDAL	<ul style="list-style-type: none"> ● Functional Classification of Urban Settlements 	6
FARUK BISWAS	<ul style="list-style-type: none"> ● Trends and Pattern of World Urbanization 	5
CC/04: Cartograms, Survey and Thematic Mapping		
	<ul style="list-style-type: none"> ● GEO/H/CC/T/04: (Theory): Cartograms, Survey and Thematic Mapping 	
FARUK BISWAS	<ul style="list-style-type: none"> ● Concepts of Cartograms and Thematic Maps 	8

FARUK BISWAS	<ul style="list-style-type: none"> ● Concept and Utility of Isoleth and Choropleth 	8
SHILPI MONDAL	<ul style="list-style-type: none"> ● Concept, utility and Interpretation of: Climograph, Hythergraph and Ergograph 	9
FARUK BISWAS	<ul style="list-style-type: none"> ● Preparation and Interpretation of Demographic Charts and Diagrams (Age-Sex Pyramid) 	12
FARUK BISWAS	<ul style="list-style-type: none"> ● Concepts of Bearing: Magnetic and True, Whole-circle and Reduced 	8
SHILPI MONDAL	<ul style="list-style-type: none"> ● Basic Concepts of Surveying and Survey Equipments: Abneys Level, Clinometer 	10
FARUK BISWAS	<ul style="list-style-type: none"> ● Basic Concepts of Surveying and Survey Equipments: Prismatic Compass, Dumpy Level, Transit Theodolite 	11
SHILPI MONDAL	<ul style="list-style-type: none"> ● Interpretation of Landuse and landcover maps 	6
	GEO/H/CC/P/04: (Practical): Cartograms, Survey and Thematic Mapping	
FARUK BISWAS	<ul style="list-style-type: none"> ● Diagrammatic Representation of Data: Star and Age-sex Pyramid Diagram, Pie Diagram 	12
SHILPI MONDAL	<ul style="list-style-type: none"> ● Representation of Data on Map by Proportional Circles, Dots and Spheres, Isolines and Choropleth method 	18
FARUK BISWAS	<ul style="list-style-type: none"> ● Survey: Traversing by Prismatic Compass and Dumpy Level with One Change Point (Profile Drawing) 	20
SHILPI MONDAL	<ul style="list-style-type: none"> ● Determination of Height of Objects using Transit Theodolite (Accessible bases) 	10

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GEOGRAPHY(H)

JULY 2020- JUNE 2021

Name of the Teacher	Topic	No of classes
GEO/H/CC/T/01: (Theory): Geotectonics and Geomorphology		
SHILPI MONDAL	Unit-1(Geotectonics)	5
	<ul style="list-style-type: none"> ● Earth's tectonic and structural evolution with reference to geological time scale 	
SHILPI MONDAL	<ul style="list-style-type: none"> ● Earth's interior with special reference to seismology 	5
FARUK BISWAS	<ul style="list-style-type: none"> ● Concept of Isostasy: Theories of Airy and Pratt 	7
FARUK BISWAS	<ul style="list-style-type: none"> ● Earth movements: Plate tectonics; Types of folds and faults; Earthquakes and Volcanoes 	18
FARUK BISWAS	Unit-2: Geomorphology	5
	<ul style="list-style-type: none"> ● Geomorphology: Nature and Scope 	
SHILPI MONDAL	<ul style="list-style-type: none"> ● Degradation processes: Weathering; Mass wasting and resultant landforms 	10
SHILPI MONDAL	<ul style="list-style-type: none"> ● Models of landscape evolution: Views of Davis, Penck, King and Hack 	14
FARUK BISWAS	<ul style="list-style-type: none"> ● Development of river network and landforms on uniclinal and folded structures 	9
SHILPI MONDAL	<ul style="list-style-type: none"> ● Evolution of Landforms (Erosional and Depositional): Fluvial, Karst, Aeolian, Glacial and Coastal 	17

CC/02: Cartographic Techniques and Geological Map Study

	GEO/H/CC/T/02: (Theory): Cartographic Techniques and Geological Map Study	
SHILPI MONDAL	<ul style="list-style-type: none"> • Cartography: Nature and Scope 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Maps: Classification and Types; Components of a Map 	7
SHILPI MONDAL	<ul style="list-style-type: none"> • Concept of Scales: Linear, Comparative, Diagonal and Vernier 	10
FARUK BISWAS	<ul style="list-style-type: none"> • Coordinate Systems: Polar and Rectangular; Concept of Geoid and Spheroid; Map Projections: Classification, Properties and Uses; Concept and Significance of UTM Projection 	12
FARUK BISWAS	<ul style="list-style-type: none"> • Survey of India Topographical Maps: Reference Scheme of Old and Open series 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Types of Rocks and Minerals; Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, Calcite, Bauxite, Magnetite, Hematite, Galena (using samples of rocks and minerals) 	10
FARUK BISWAS	<ul style="list-style-type: none"> • Concept of Bedding Plane, Unconformity and Non-conformity, Thickness of Bed, Dip, Throw, Hade, Heave 	7
	GEO/H/CC/P/02: (Practical): Cartographic Techniques and Geological Map Study	
SHILPI MONDAL	<ul style="list-style-type: none"> • Construction of Scales: Linear, Comparative, Diagonal and Vernier 	15

SHILPI MONDAL	<ul style="list-style-type: none"> Construction of Projections: Polar Zenithal Stereographic Projection, Simple Conical with One Standard Parallel Projection, Bonne's Projection and Mercator's Projection 	14
FARUK BISWAS	<ul style="list-style-type: none"> Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite), Preparation of Relative Relief Map, Average Slope Map (Wentworth Method), and Stream Ordering (After Strahler) on a Drainage Basin 	16
SHILPI MONDAL	<ul style="list-style-type: none"> Transect chart: Relation between physical and cultural features from topographical maps (Survey of India) 	8
FARUK BISWAS	<ul style="list-style-type: none"> Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted Structure); Drawing of Geological Section and Interpretation of the Map 	20

GEO/H/CC/T/03 : (Theory): Human Geography

	Unit-1: Nature and Principles	
FARUK BISWAS	<ul style="list-style-type: none"> Introduction: Defining Human Geography; Major Themes; Contemporary Relevance 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Evolution of Humans; Concept of Race and Ethnicity; Major Racial Groups of the World 	9
FARUK BISWAS	<ul style="list-style-type: none"> Space, Society and Cultural Regions (Language and Religion) 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Concept: Culture, Cultural Diffusion, Community, Society, Cultural Realms 	7
	Unit-2: Society, Demography and Ekistics	
SHILPI MONDAL	<ul style="list-style-type: none"> Evolution of Human Society: Hunting and Gathering, Pastoral Nomadism, Subsistence Farming, Industrial and Urban Society 	16

SHILPI MONDAL	<ul style="list-style-type: none"> Population Growth and Distribution, Population Composition; Demographic Transition Model 	15
FARUK BISWAS	<ul style="list-style-type: none"> Population–Resource Regions (Ackerman) 	3
SHILPI MONDAL	<ul style="list-style-type: none"> Population and Environment Relations with special reference to Development–Environment Conflict 	6
FARUK BISWAS	<ul style="list-style-type: none"> Social Morphology and Rural House Types in India 	5
SHILPI MONDAL	<ul style="list-style-type: none"> Types and Patterns of Rural Settlements 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Functional Classification of Urban Settlements 	6
FARUK BISWAS	<ul style="list-style-type: none"> Trends and Pattern of World Urbanization 	5

CC/04: Cartograms, Survey and Thematic Mapping

	<ul style="list-style-type: none"> GEO/H/CC/T/04: (Theory): Cartograms, Survey and Thematic Mapping 	
FARUK BISWAS	<ul style="list-style-type: none"> Concepts of Cartograms and Thematic Maps 	8
FARUK BISWAS	<ul style="list-style-type: none"> Concept and Utility of Isopleth and Choropleth 	8
SHILPI MONDAL	<ul style="list-style-type: none"> Concept, utility and Interpretation of: Climograph, Hythergraph and Ergograph 	9

FARUK BISWAS	<ul style="list-style-type: none"> Preparation and Interpretation of Demographic Charts and Diagrams (Age-Sex Pyramid) 	12
FARUK BISWAS	<ul style="list-style-type: none"> Concepts of Bearing: Magnetic and True, Whole-circle and Reduced 	8
SHILPI MONDAL	<ul style="list-style-type: none"> Basic Concepts of Surveying and Survey Equipments: Abneys Level, Clinometer 	10
FARUK BISWAS	<ul style="list-style-type: none"> Basic Concepts of Surveying and Survey Equipments: Prismatic Compass, Dumpy Level, Transit Theodolite 	11
SHILPI MONDAL	<ul style="list-style-type: none"> Interpretation of Landuse and landcover maps 	6
	GEO/H/CC/P/04: (Practical): Cartograms, Survey and Thematic Mapping	
FARUK BISWAS	<ul style="list-style-type: none"> Diagrammatic Representation of Data: Star and Age-sex Pyramid Diagram, Pie Diagram 	12
SHILPI MONDAL	<ul style="list-style-type: none"> Representation of Data on Map by Proportional Circles, Dots and Spheres, Isolines and Choropleth method 	18
FARUK BISWAS	<ul style="list-style-type: none"> Survey: Traversing by Prismatic Compass and Dumpy Level with One Change Point (Profile Drawing) 	20
SHILPI MONDAL	<ul style="list-style-type: none"> Determination of Height of Objects using Transit Theodolite (Accessible bases) 	10
GEO/H/CC/T/05: (Theory): Climatology		
	Unit-1: Elements of the Atmosphere	

SHILPI MONDAL	<ul style="list-style-type: none"> ● Nature, Composition and Layering of the Atmosphere 	5
SHILPI MONDAL	<ul style="list-style-type: none"> ● . Insolation: Controlling Factors. Heat Budget of the Atmosphere 	6
FARUK BISWAS	<ul style="list-style-type: none"> ● Temperature: Horizontal and Vertical Distribution; Inversion of Temperature: Types, Causes and Consequences 	5
SHILPI MONDAL	<ul style="list-style-type: none"> ● Greenhouse Effect and Importance of Ozone Layer 	4
	Unit-2: Atmospheric Phenomena, Climate Change and Climatic Classification	
SHILPI MONDAL	<ul style="list-style-type: none"> ● Condensation: Processes and Forms; Mechanism of Precipitation: Bergeron-Findeisen Theory, Collision and Coalescence; Forms of Precipitation 	11
SHILPI MONDAL	<ul style="list-style-type: none"> ● Condensation: Processes and Forms; Mechanism of Precipitation: Bergeron-Findeisen Theory, Collision and Coalescence; Forms of Precipitation 	9
FARUK BISWAS	<ul style="list-style-type: none"> ● Fronts: Warm and Cold; Frontogenesis and Frontolysis 	6
FARUK BISWAS	<ul style="list-style-type: none"> ● Weather: Stability and Instability; Barotropic and Baroclinic Conditions 	8
SHILPI MONDAL	<ul style="list-style-type: none"> ● Circulation in the Atmosphere: Planetary Winds; Jet Stream 	6
FARUK BISWAS	<ul style="list-style-type: none"> ● Monsoon Circulation and Mechanism with reference to India 	6
FARUK BISWAS	<ul style="list-style-type: none"> ● Tropical and Mid-latitude Cyclones 	9

SHILPI MONDAL	<ul style="list-style-type: none"> • Climatic Classification after Köppen, Thornthwaite (1931 and 1948) 	5
CC/06: Statistical Methods in Geography		
	<ul style="list-style-type: none"> • GEO/H/CC/T/06: (Theory): Statistical Methods in Geography 	
SHILPI MONDAL	<ul style="list-style-type: none"> • Unit-1: • Importance and Significance of Statistics in Geography; Discrete and Continuous Data; Population and Samples; Scales of Measurement (Nominal, Ordinal, Interval and Ratio); Sources of Data 	10
SHILPI MONDAL	<ul style="list-style-type: none"> • Collection of Data and Formation of Statistical Tables 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Sampling: Need, Types, and Significance and Methods of Purposive, Random, Systematic and Stratified 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Distribution: Frequency, Cumulative Frequency; Probability: Normal Distribution 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Unit-2: • Central Tendency: Mean, Median, Mode, Partition Values 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Measures of Dispersion: Range, Mean Deviation, Standard Deviation, Coefficient of Variation 	10
FARUK BISWAS	<ul style="list-style-type: none"> • Association and Correlation: Rank Correlation, Product Moment Correlation 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Linear Regression and Time Series Analysis 	6
	<ul style="list-style-type: none"> • GEO/H/CC/P/06: (Practical): Statistical Methods in Geography 	

SHILPI MONDAL	<ul style="list-style-type: none"> Construction of Data Matrix with each Row representing an Aerial Unit (Districts / Blocks / Mouzas / Towns) and Corresponding Columns of Relevant Attributes 	15
SHILPI MONDAL	<ul style="list-style-type: none"> Based on the above, a Frequency Table, Measures of Central Tendency and Dispersion would be Computed and Interpreted 	20
FARUK BISWAS	<ul style="list-style-type: none"> Histograms and Frequency Curve would be Prepared on the Dataset 	10
FARUK BISWAS	<ul style="list-style-type: none"> Based on the Sample Set and using Two Relevant Attributes, a Scatter Diagram and Regression Line would be Plotted and Residual from Regression would be Mapped with a short Interpretation 	15
● GEO/H/CC/T/07: (Theory): Geography of India		
	<ul style="list-style-type: none"> Unit-1: Geography of India 	
SHILPI MONDAL	<ul style="list-style-type: none"> Physical: Geology and Physiographic Divisions 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Regionalisation of India: Physiographic (R.L. Sing); Socio-Cultural (Sopher) and Economic (Sengupta) 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Climate, Soil and Vegetation: Characteristics and Classification 	9
SHILPI MONDAL	<ul style="list-style-type: none"> Population: Distribution, Growth, Structure and Policy 	8
FARUK BISWAS	<ul style="list-style-type: none"> Distribution of Population by Race, Caste, Religion, Language, Tribes 	9
FARUK BISWAS	<ul style="list-style-type: none"> Agricultural Regions; Green Revolution and its Consequences 	5

FARUK BISWAS	<ul style="list-style-type: none"> Mineral and Power Resources: Distribution and Utilisation of Iron Ore, Coal, Petroleum, Natural Gas 	8
FARUK BISWAS	<ul style="list-style-type: none"> Industrial Development: Automobile and Information Technology 	6
	<ul style="list-style-type: none"> Unit 2: Geography of West Bengal 	
FARUK BISWAS	<ul style="list-style-type: none"> Physical Perspectives: Physiographic Divisions, Forest and Water Resources 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Population: Growth, Distribution and Human Development 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Resources: Mining, Agriculture and Industries 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Regional Development: Darjeeling Hills, Sundarban Delta, Nadia and Murshidabad District 	6
● SKILL ENHANCEMENT COURSE (SEC):		
	<ul style="list-style-type: none"> GEO/H/SEC/P/01/A: (Practical): Computer Basics and Computer Applications 	
SHILPI MONDAL	<ul style="list-style-type: none"> Numbering Systems; Binary Arithmetic 	10
SHILPI MONDAL	<ul style="list-style-type: none"> Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Coefficient of Variation, Regression 	17
FARUK BISWAS	<ul style="list-style-type: none"> Preparation of Annotated Diagrams and its Interpretation: Scatter Diagram and Histogram 	15

SHILPI MONDAL	<ul style="list-style-type: none"> • Internet Surfing: Generation and Extraction of Information 	18
GEO/H/CC/T/08: (Theory): Regional Planning and Development		
	Unit-I: Regional Planning	
SHILPI MONDAL	<ul style="list-style-type: none"> • Concept of region, Types and delineation: Formal, functional and planning regions 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Types of planning, principles and techniques of regional planning 	8
FARUK BISWAS	<ul style="list-style-type: none"> • Needs of regional planning, multi level planning in India 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Concept of metropolitan and urban agglomerations; Regionalisation of India for planning (Agro-Ecological Zones) 	8
	Unit-II: Regional Development	
FARUK BISWAS	<ul style="list-style-type: none"> • Development: Meaning, growth versus development 	4
FARUK BISWAS	<ul style="list-style-type: none"> • Theories and models for regional development: Growth pole model of Perroux; growth foci model in Indian context (R.P. Misra) 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Theories and models for regional development: Cumulative causation (Myrdal), Core periphery (Hirschman, Rostow and Friedman) 	12

SHILPI MONDAL	<ul style="list-style-type: none"> • Changing concept of development; concept of underdevelopment 	4
FARUK BISWAS	<ul style="list-style-type: none"> • Concept and indicators of regional imbalances in India 	5
SHILPI MONDAL	<ul style="list-style-type: none"> • Significance of balanced development in India 	5
SHILPI MONDAL	<ul style="list-style-type: none"> • Human development: Significance, Indicators and Measurement 	5
● GEO/H/CC/T/09: (Theory): Economic Geography		
	Unit-I: Concept	
FARUK BISWAS	<ul style="list-style-type: none"> • Meaning and approaches to Economic Geography 	4
FARUK BISWAS	<ul style="list-style-type: none"> • Concept in Economic geography: goods and services production, exchange and consumption 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Factors influencing location of economic activity and forces of agglomeration 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Determining factors of transport costs 	5
	Unit-II: Economic Activities	
SHILPI MONDAL	<ul style="list-style-type: none"> • Concept and classification of economic activities 	4

SHILPI MONDAL	<ul style="list-style-type: none"> Location theories with special reference to agriculture (Vonthunen), and industry (Weber) 	7
FARUK BISWAS	<ul style="list-style-type: none"> Primary activities: Subsistence and commercial agriculture; forestry (types and management); fishing (distribution of world fishing zones); mining (role of mining in economic development) activity in India 	12
FARUK BISWAS	<ul style="list-style-type: none"> Secondary activities: Manufacturing (Cotton textile in India and U.S.A., Iron and steel in India and Japan), 	8
SHILPI MONDAL	<ul style="list-style-type: none"> Concept of manufacturing region: special economic zones and technology parks 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Tertiary activities: transport, trade and services 	8
FARUK BISWAS	<ul style="list-style-type: none"> Agricultural systems: Case studies of tea plantation in India and mixed farming in Europe 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Transnational sea-routes; railways and highways with reference to India 	7
● GEO/H/CC/T/10: (Theory): Environmental Geography		
FARUK BISWAS	<ul style="list-style-type: none"> Environmental Geography: Concept and Scope 	6
FARUK BISWAS	<ul style="list-style-type: none"> Perception of environment in different stages of civilization 	8
SHILPI MONDAL	<ul style="list-style-type: none"> Concept of holistic environment; concept of EIA 	7

SHILPI MONDAL	<ul style="list-style-type: none"> • Ecosystem: concept, structure and functions 	10
FARUK BISWAS	<ul style="list-style-type: none"> • Environmental pollution and degradation: Land, water and air 	9
FARUK BISWAS	<ul style="list-style-type: none"> • Environmental issues related to agriculture 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Urban environmental issues with special reference to waste management 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Environmental programmes and policies: global (Earth summit, 1992; Montreal and Kyoto protocols), national and local levels. 	8
	<ul style="list-style-type: none"> • GEO/H/CC/P/10: (Practical): Environmental Geography 	
FARUK BISWAS	<ul style="list-style-type: none"> • Preparation of questionnaire for perception survey on environmental problems 	15
SHILPI MONDAL	<ul style="list-style-type: none"> • Environmental mapping; Quality assessment of soil using field kit: pH and NPK 	25
FARUK BISWAS	<ul style="list-style-type: none"> • Interpretation of air quality using CPCB/ WBPCB data 	20

● SKILL ENHANCEMENT COURSE (SEC):

SHILPI MONDAL	<ul style="list-style-type: none"> • Differences between Spatial and Non-spatial data, Nearest Neighbour Analysis 	10
SHILPI MONDAL	<ul style="list-style-type: none"> • Concept of probability and Normal Distribution and their geographical application, Skewness (Pearson's Method) 	12

SHILPI MONDAL	<ul style="list-style-type: none"> Sampling: Sampling plans for spatial and non-spatial data, sampling distributions, sampling estimates for large and small samples tests involving means and proportions 	10
FARUK BISWAS	<ul style="list-style-type: none"> Correlation and Regression Analysis: Rank order correlation and product moment correlation; linear regression, residuals from regression 	15
FARUK BISWAS	<ul style="list-style-type: none"> Time Series Analysis: Least Squares, Moving mean method, Time series components 	13
Name of the Teacher	Topic	No of classes
GEO/H/CC/T/01: (Theory): Geotectonics and Geomorphology		
SHILPI MONDAL	Unit-1(Geotectonics)	5
	<ul style="list-style-type: none"> Earth's tectonic and structural evolution with reference to geological time scale 	
SHILPI MONDAL	<ul style="list-style-type: none"> Earth's interior with special reference to seismology 	5
SAYANI SAHA	<ul style="list-style-type: none"> Concept of Isostasy: Theories of Airy and Pratt 	7
FARUK BISWAS	<ul style="list-style-type: none"> Earth movements: Plate tectonics; Types of folds and faults; Earthquakes and Volcanoes 	18
FARUK BISWAS	Unit-2: Geomorphology	5
	<ul style="list-style-type: none"> Geomorphology: Nature and Scope 	
SAYANI SAHA	<ul style="list-style-type: none"> Degradation processes: Weathering; Mass wasting and resultant landforms 	10
SHILPI MONDAL	<ul style="list-style-type: none"> Models of landscape evolution: Views of Davis, Penck, King and Hack 	14

FARUK BISWAS	<ul style="list-style-type: none"> Development of river network and landforms on uniclinal and folded structures 	9
MINAKSHI MONDAL	<ul style="list-style-type: none"> Evolution of Landforms (Erosional and Depositional): Fluvial, Karst, Aeolian, Glacial and Coastal 	17
CC/02: Cartographic Techniques and Geological Map Study		
	GEO/H/CC/T/02: (Theory): Cartographic Techniques and Geological Map Study	
MINAKSHI MONDAL	<ul style="list-style-type: none"> Cartography: Nature and Scope 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Maps: Classification and Types; Components of a Map 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Concept of Scales: Linear, Comparative, Diagonal and Vernier 	10
MINAKSHI MONDAL	<ul style="list-style-type: none"> Coordinate Systems: Polar and Rectangular; Concept of Geoid and Spheroid; Map Projections: Classification, Properties and Uses; Concept and Significance of UTM Projection 	12
FARUK BISWAS	<ul style="list-style-type: none"> Survey of India Topographical Maps: Reference Scheme of Old and Open series 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Types of Rocks and Minerals; Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, Calcite, Bauxite, Magnetite, Hematite, Galena (using samples of rocks and minerals) 	10
SAYANI SAHA	<ul style="list-style-type: none"> Concept of Bedding Plane, Unconformity and Non-conformity, Thickness of Bed, Dip, Throw, Hade, Heave 	7

	GEO/H/CC/P/02: (Practical): Cartographic Techniques and Geological Map Study	
SHILPI MONDAL	<ul style="list-style-type: none"> Construction of Scales: Linear, Comparative, Diagonal and Vernier 	15
SAYANI SAHA	<ul style="list-style-type: none"> Construction of Projections: Polar Zenithal Stereographic Projection, Simple Conical with One Standard Parallel Projection, Bonne's Projection and Mercator's Projection 	14
FARUK BISWAS	<ul style="list-style-type: none"> Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite), Preparation of Relative Relief Map, Average Slope Map (Wentworth Method), and Stream Ordering (After Strahler) on a Drainage Basin 	16
SHILPI MONDAL	<ul style="list-style-type: none"> Transect chart: Relation between physical and cultural features from topographical maps (Survey of India) 	8
MINAKSHI MONDAL	<ul style="list-style-type: none"> Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted Structure); Drawing of Geological Section and Interpretation of the Map 	20

GEO/H/CC/T/03 : (Theory): Human Geography

	Unit-1: Nature and Principles	
FARUK BISWAS	<ul style="list-style-type: none"> Introduction: Defining Human Geography; Major Themes; Contemporary Relevance 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Evolution of Humans; Concept of Race and Ethnicity; Major Racial Groups of the World 	9
MINAKSHI MONDAL	<ul style="list-style-type: none"> Space, Society and Cultural Regions (Language and Religion) 	6
SAYANI SAHA	<ul style="list-style-type: none"> Concept: Culture, Cultural Diffusion, Community, Society, Cultural Realms 	7

	Unit-2: Society, Demography and Ekistics	
SHILPI MONDAL	<ul style="list-style-type: none"> • Evolution of Human Society: Hunting and Gathering, Pastoral Nomadism, Subsistence Farming, Industrial and Urban Society 	16
SHILPI MONDAL	<ul style="list-style-type: none"> • Population Growth and Distribution, Population Composition; Demographic Transition Model 	15
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Population–Resource Regions (Ackerman) 	3
SAYANI SAHA	<ul style="list-style-type: none"> • Population and Environment Relations with special reference to Development–Environment Conflict 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Social Morphology and Rural House Types in India 	5
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Types and Patterns of Rural Settlements 	6
SAYANI SAHA	<ul style="list-style-type: none"> • Functional Classification of Urban Settlements 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Trends and Pattern of World Urbanization 	5
CC/04: Cartograms, Survey and Thematic Mapping		
	<ul style="list-style-type: none"> • GEO/H/CC/T/04: (Theory): Cartograms, Survey and Thematic Mapping 	
FARUK BISWAS	<ul style="list-style-type: none"> • Concepts of Cartograms and Thematic Maps 	8

MINAKSHI MONDAL	<ul style="list-style-type: none"> • Concept and Utility of Isopleth and Choropleth 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Concept, utility and Interpretation of: Climograph, Hythergraph and Ergograph 	9
FARUK BISWAS	<ul style="list-style-type: none"> • Preparation and Interpretation of Demographic Charts and Diagrams (Age-Sex Pyramid) 	12
SAYANI SAHA	<ul style="list-style-type: none"> • Concepts of Bearing: Magnetic and True, Whole-circle and Reduced 	8
SAYANI SAHA	<ul style="list-style-type: none"> • Basic Concepts of Surveying and Survey Equipments: Abneys Level, Clinometer 	10
FARUK BISWAS	<ul style="list-style-type: none"> • Basic Concepts of Surveying and Survey Equipments: Prismatic Compass, Dumpy Level, Transit Theodolite 	11
SHILPI MONDAL	<ul style="list-style-type: none"> • Interpretation of Landuse and landcover maps 	6
	GEO/H/CC/P/04: (Practical): Cartograms, Survey and Thematic Mapping	
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Diagrammatic Representation of Data: Star and Age-sex Pyramid Diagram, Pie Diagram 	12
SHILPI MONDAL	<ul style="list-style-type: none"> • Representation of Data on Map by Proportional Circles, Dots and Spheres, Isolines and Choropleth method 	18
FARUK BISWAS	<ul style="list-style-type: none"> • Survey: Traversing by Prismatic Compass and Dumpy Level with One Change Point (Profile Drawing) 	20
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Determination of Height of Objects using Transit Theodolite (Accessible bases) 	10

GEO/H/CC/T/05: (Theory): Climatology

	Unit-1: Elements of the Atmosphere	
SHILPI MONDAL	<ul style="list-style-type: none"> • Nature, Composition and Layering of the Atmosphere 	5
MINAKSHI MONDAL	<ul style="list-style-type: none"> • . Insolation: Controlling Factors. Heat Budget of the Atmosphere 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Temperature: Horizontal and Vertical Distribution; Inversion of Temperature: Types, Causes and Consequences 	5
SHILPI MONDAL	<ul style="list-style-type: none"> • Greenhouse Effect and Importance of Ozone Layer 	4
	Unit-2: Atmospheric Phenomena, Climate Change and Climatic Classification	
SAYANI SAHA	<ul style="list-style-type: none"> • Condensation: Processes and Forms; Mechanism of Precipitation: Bergeron-Findeisen Theory, Collision and Coalescence; Forms of Precipitation 	11
SHILPI MONDAL	<ul style="list-style-type: none"> • Condensation: Processes and Forms; Mechanism of Precipitation: Bergeron-Findeisen Theory, Collision and Coalescence; Forms of Precipitation 	9
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Fronts: Warm and Cold; Frontogenesis and Frontolysis 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Weather: Stability and Instability; Barotropic and Baroclinic Conditions 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Circulation in the Atmosphere: Planetary Winds; Jet Stream 	6

FARUK BISWAS	<ul style="list-style-type: none"> ● Monsoon Circulation and Mechanism with reference to India 	6
FARUK BISWAS	<ul style="list-style-type: none"> ● Tropical and Mid-latitude Cyclones 	9
SAYANI SAHA	<ul style="list-style-type: none"> ● Climatic Classification after Köppen, Thornthwaite (1931 and 1948) 	5

CC/06: Statistical Methods in Geography

	<ul style="list-style-type: none"> ● GEO/H/CC/T/06: (Theory): Statistical Methods in Geography 	
SHILPI MONDAL	<ul style="list-style-type: none"> ● Unit-1: ● Importance and Significance of Statistics in Geography; Discrete and Continuous Data; Population and Samples; Scales of Measurement (Nominal, Ordinal, Interval and Ratio); Sources of Data 	10
MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Collection of Data and Formation of Statistical Tables 	6
FARUK BISWAS	<ul style="list-style-type: none"> ● Sampling: Need, Types, and Significance and Methods of Purposive, Random, Systematic and Stratified 	6
SAYANI SAHA	<ul style="list-style-type: none"> ● Distribution: Frequency, Cumulative Frequency; Probability: Normal Distribution 	8
SHILPI MONDAL	<ul style="list-style-type: none"> ● Unit-2: ● Central Tendency: Mean, Median, Mode, Partition Values 	8
MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Measures of Dispersion: Range, Mean Deviation, Standard Deviation, Coefficient of Variation 	10
FARUK BISWAS	<ul style="list-style-type: none"> ● Association and Correlation: Rank Correlation, Product Moment Correlation 	6

SAYANI SAHA	<ul style="list-style-type: none"> Linear Regression and Time Series Analysis 	6
	<ul style="list-style-type: none"> GEO/H/CC/P/06: (Practical): Statistical Methods in Geography 	
MINAKSHI MONDAL	<ul style="list-style-type: none"> Construction of Data Matrix with each Row representing an Aerial Unit (Districts / Blocks / Mouzas / Towns) and Corresponding Columns of Relevant Attributes 	15
SHILPI MONDAL	<ul style="list-style-type: none"> Based on the above, a Frequency Table, Measures of Central Tendency and Dispersion would be Computed and Interpreted 	20
SAYANI SAHA	<ul style="list-style-type: none"> Histograms and Frequency Curve would be Prepared on the Dataset 	10
FARUK BISWAS	<ul style="list-style-type: none"> Based on the Sample Set and using Two Relevant Attributes, a Scatter Diagram and Regression Line would be Plotted and Residual from Regression would be Mapped with a short Interpretation 	15
<ul style="list-style-type: none"> GEO/H/CC/T/07: (Theory): Geography of India 		
	<ul style="list-style-type: none"> Unit-1: Geography of India 	
MINAKSHI MONDAL	<ul style="list-style-type: none"> Physical: Geology and Physiographic Divisions 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Regionalisation of India: Physiographic (R.L. Sing); Socio-Cultural (Sopher) and Economic (Sengupta) 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Climate, Soil and Vegetation: Characteristics and Classification 	9
MINAKSHI MONDAL	<ul style="list-style-type: none"> Population: Distribution, Growth, Structure and Policy 	8

FARUK BISWAS	<ul style="list-style-type: none"> • Distribution of Population by Race, Caste, Religion, Language, Tribes 	9
FARUK BISWAS	<ul style="list-style-type: none"> • Agricultural Regions; Green Revolution and its Consequences 	5
SAYANI SAHA	<ul style="list-style-type: none"> • Mineral and Power Resources: Distribution and Utilisation of Iron Ore, Coal, Petroleum, Natural Gas 	8
SAYANI SAHA	<ul style="list-style-type: none"> • Industrial Development: Automobile and Information Technology 	6
	<ul style="list-style-type: none"> • Unit 2: Geography of West Bengal 	
FARUK BISWAS	<ul style="list-style-type: none"> • Physical Perspectives: Physiographic Divisions, Forest and Water Resources 	7
SHILPI MONDAL	<ul style="list-style-type: none"> • Population: Growth, Distribution and Human Development 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Resources: Mining, Agriculture and Industries 	7
SAYANI SAHA	<ul style="list-style-type: none"> • Regional Development: Darjeeling Hills, Sundarban Delta, Nadia and Murshidabad District 	6
● SKILL ENHANCEMENT COURSE (SEC):		
	<ul style="list-style-type: none"> • GEO/H/SEC/P/01/A: (Practical): Computer Basics and Computer Applications 	
SHILPI MONDAL	<ul style="list-style-type: none"> • Numbering Systems; Binary Arithmetic 	10

SHILPI MONDAL	<ul style="list-style-type: none"> Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Coefficient of Variation , Regression 	17
FARUK BISWAS	<ul style="list-style-type: none"> Preparation of Annotated Diagrams and its Interpretation: Scatter Diagram and Histogram 	15
SAYANI SAHA	<ul style="list-style-type: none"> Internet Surfing: Generation and Extraction of Information 	18

GEO/H/CC/T/08: (Theory): Regional Planning and Development

	Unit-I: Regional Planning	
SHILPI MONDAL	<ul style="list-style-type: none"> Concept of region, Types and delineation: Formal, functional and planning regions 	8
SAYANI SAHA	<ul style="list-style-type: none"> Types of planning, principles and techniques of regional planning 	8
FARUK BISWAS	<ul style="list-style-type: none"> Needs of regional planning, multi level planning in India 	6
MINAKSHI MONDAL	<ul style="list-style-type: none"> Concept of metropolitan and urban agglomerations; Regionalisation of India for planning (Agro-Ecological Zones) 	8
	Unit-II: Regional Development	
FARUK BISWAS	<ul style="list-style-type: none"> Development: Meaning, growth versus development 	4
FARUK BISWAS	<ul style="list-style-type: none"> Theories and models for regional development: Growth pole model of Perroux; 	8

	growth foci model in Indian context (R.P. Misra)	
SHILPI MONDAL	<ul style="list-style-type: none"> Theories and models for regional development: Cumulative causation (Myrdal), Core periphery (Hirschman, Rostow and Friedman) 	12
SAYANI SAHA	<ul style="list-style-type: none"> Changing concept of development; concept of underdevelopment 	4
MINAKSHI MONDAL	<ul style="list-style-type: none"> Concept and indicators of regional imbalances in India 	5
SHILPI MONDAL	<ul style="list-style-type: none"> Significance of balanced development in India 	5
SAYANI SAHA	<ul style="list-style-type: none"> Human development: Significance, Indicators and Measurement 	5

● GEO/H/CC/T/09: (Theory): Economic Geography

	Unit-I: Concept	
FARUK BISWAS	<ul style="list-style-type: none"> Meaning and approaches to Economic Geography 	4
MINAKSHI MONDAL	<ul style="list-style-type: none"> Concept in Economic geography: goods and services production, exchange and consumption 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Factors influencing location of economic activity and forces of agglomeration 	6
SAYANI SAHA	<ul style="list-style-type: none"> Determining factors of transport costs 	5

	Unit-II: Economic Activities	
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Concept and classification of economic activities 	4
SHILPI MONDAL	<ul style="list-style-type: none"> • Location theories with special reference to agriculture (Vonthunen), and industry (Weber) 	7
FARUK BISWAS	<ul style="list-style-type: none"> • Primary activities: Subsistence and commercial agriculture; forestry (types and management); fishing (distribution of world fishing zones); mining (role of mining in economic development) activity in India 	12
SAYANI SAHA	<ul style="list-style-type: none"> • Secondary activities: Manufacturing (Cotton textile in India and U.S.A., Iron and steel in India and Japan), 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Concept of manufacturing region: special economic zones and technology parks 	6
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Tertiary activities: transport, trade and services 	8
FARUK BISWAS	<ul style="list-style-type: none"> • Agricultural systems: Case studies of tea plantation in India and mixed farming in Europe 	7
SHILPI MONDAL	<ul style="list-style-type: none"> • Transnational sea-routes; railways and highways with reference to India 	7
• GEO/H/CC/T/10: (Theory): Environmental Geography		
FARUK BISWAS	<ul style="list-style-type: none"> • Environmental Geography: Concept and Scope 	6

MINAKSHI MONDAL	<ul style="list-style-type: none"> • Perception of environment in different stages of civilization 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Concept of holistic environment; concept of EIA 	7
SAYANI SAHA	<ul style="list-style-type: none"> • Ecosystem: concept, structure and functions 	10
FARUK BISWAS	<ul style="list-style-type: none"> • Environmental pollution and degradation: Land, water and air 	9
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Environmental issues related to agriculture 	6
SAYANI SAHA	<ul style="list-style-type: none"> • Urban environmental issues with special reference to waste management 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Environmental programmes and policies: global (Earth summit, 1992; Montreal and Kyoto protocols), national and local levels. 	8
	<ul style="list-style-type: none"> • GEO/H/CC/P/10: (Practical): Environmental Geography 	
FARUK BISWAS	<ul style="list-style-type: none"> • Preparation of questionnaire for perception survey on environmental problems 	15
SHILPI MONDAL	<ul style="list-style-type: none"> • Environmental mapping; Quality assessment of soil using field kit: pH and NPK 	25
SAYANI SAHA	<ul style="list-style-type: none"> • Interpretation of air quality using CPCB/ WBPCB data 	20

● SKILL ENHANCEMENT COURSE (SEC):

	<ul style="list-style-type: none"> ● GEO/H/SEC/P/02/A: (Practical): Advance Spatial Statistical Techniques 	
SHILPI MONDAL	<ul style="list-style-type: none"> ● Differences between Spatial and Non-spatial data, Nearest Neighbour Analysis 	10
SHILPI MONDAL	<ul style="list-style-type: none"> ● Concept of probability and Normal Distribution and their geographical application, Skewness (Pearson's Method) 	12
SHILPI MONDAL	<ul style="list-style-type: none"> ● Sampling: Sampling plans for spatial and non-spatial data, sampling distributions, sampling estimates for large and small samples tests involving means and proportions 	10
FARUK BISWAS	<ul style="list-style-type: none"> ● Correlation and Regression Analysis: Rank order correlation and product moment correlation; linear regression, residuals from regression 	15
FARUK BISWAS	<ul style="list-style-type: none"> ● Time Series Analysis: Least Squares, Moving mean method, Time series components 	13

NABADWIP VIDYASAGAR COLLEGE

SYLLABUS MODULARIZATION OF DEPARTMENT OF GEOGRAPHY

GEOGRAPHY(H)

JULY 2021- JUNE 2022

Name of the Teacher	Topic	No of classes
GEO/H/CC/T/01: (Theory): Geotectonics and Geomorphology		
SHILPI MONDAL	Unit-1(Geotectonics)	5
	<ul style="list-style-type: none">• Earth's tectonic and structural evolution with reference to geological time scale	
SHILPI MONDAL	<ul style="list-style-type: none">• Earth's interior with special reference to seismology	5
SAYANI SAHA	<ul style="list-style-type: none">• Concept of Isostasy: Theories of Airy and Pratt	7
FARUK BISWAS	<ul style="list-style-type: none">• Earth movements: Plate tectonics; Types of folds and faults; Earthquakes and Volcanoes	18
FARUK BISWAS	Unit-2: Geomorphology	5
	<ul style="list-style-type: none">• Geomorphology: Nature and Scope	

SAYANI SAHA	<ul style="list-style-type: none"> Degradation processes: Weathering; Mass wasting and resultant landforms 	10
SHILPI MONDAL	<ul style="list-style-type: none"> Models of landscape evolution: Views of Davis, Penck, King and Hack 	14
FARUK BISWAS	<ul style="list-style-type: none"> Development of river network and landforms on uniclinal and folded structures 	9
MINAKSHI MONDAL	<ul style="list-style-type: none"> Evolution of Landforms (Erosional and Depositional): Fluvial, Karst, Aeolian, Glacial and Coastal 	17
CC/02: Cartographic Techniques and Geological Map Study		
	GEO/H/CC/T/02: (Theory): Cartographic Techniques and Geological Map Study	
MINAKSHI MONDAL	<ul style="list-style-type: none"> Cartography: Nature and Scope 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Maps: Classification and Types; Components of a Map 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Concept of Scales: Linear, Comparative, Diagonal and Vernier 	10
MINAKSHI MONDAL	<ul style="list-style-type: none"> Coordinate Systems: Polar and Rectangular; Concept of Geoid and Spheroid; Map Projections: Classification, Properties and Uses; Concept and Significance of UTM Projection 	12
FARUK BISWAS	<ul style="list-style-type: none"> Survey of India Topographical Maps: Reference Scheme of Old and Open series 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Types of Rocks and Minerals; Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, 	10

	Calcite, Bauxite, Magnetite, Hematite, Galena (using samples of rocks and minerals)	
SAYANI SAHA	<ul style="list-style-type: none"> • Concept of Bedding Plane, Unconformity and Non-conformity, Thickness of Bed, Dip, Throw, Hade, Heave 	7
	GEO/H/CC/P/02: (Practical): Cartographic Techniques and Geological Map Study	
SHILPI MONDAL	<ul style="list-style-type: none"> • Construction of Scales: Linear, Comparative, Diagonal and Vernier 	15
SAYANI SAHA	<ul style="list-style-type: none"> • Construction of Projections: Polar Zenithal Stereographic Projection, Simple Conical with One Standard Parallel Projection, Bonne's Projection and Mercator's Projection 	14
FARUK BISWAS	<ul style="list-style-type: none"> • Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite), Preparation of Relative Relief Map, Average Slope Map (Wentworth Method), and Stream Ordering (After Strahler) on a Drainage Basin 	16
SHILPI MONDAL	<ul style="list-style-type: none"> • Transect chart: Relation between physical and cultural features from topographical maps (Survey of India) 	8
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted Structure); Drawing of Geological Section and Interpretation of the Map 	20

GEO/H/CC/T/03 : (Theory): Human Geography

	Unit-1: Nature and Principles	
FARUK BISWAS	<ul style="list-style-type: none"> • Introduction: Defining Human Geography; Major Themes; Contemporary Relevance 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Evolution of Humans; Concept of Race and Ethnicity; Major Racial Groups of the World 	9

MINAKSHI MONDAL	<ul style="list-style-type: none"> • Space, Society and Cultural Regions (Language and Religion) 	6
SAYANI SAHA	<ul style="list-style-type: none"> • Concept: Culture, Cultural Diffusion, Community, Society, Cultural Realms 	7
	Unit-2: Society, Demography and Ekistics	
SHILPI MONDAL	<ul style="list-style-type: none"> • Evolution of Human Society: Hunting and Gathering, Pastoral Nomadism, Subsistence Farming, Industrial and Urban Society 	16
SHILPI MONDAL	<ul style="list-style-type: none"> • Population Growth and Distribution, Population Composition; Demographic Transition Model 	15
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Population–Resource Regions (Ackerman) 	3
SAYANI SAHA	<ul style="list-style-type: none"> • Population and Environment Relations with special reference to Development–Environment Conflict 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Social Morphology and Rural House Types in India 	5
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Types and Patterns of Rural Settlements 	6
SAYANI SAHA	<ul style="list-style-type: none"> • Functional Classification of Urban Settlements 	6
FARUK BISWAS	<ul style="list-style-type: none"> • Trends and Pattern of World Urbanization 	5

CC/04: Cartograms, Survey and Thematic Mapping

	<ul style="list-style-type: none"> ● GEO/H/CC/T/04: (Theory): Cartograms, Survey and Thematic Mapping 	
FARUK BISWAS	<ul style="list-style-type: none"> ● Concepts of Cartograms and Thematic Maps 	8
MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Concept and Utility of Isopleth and Choropleth 	8
SHILPI MONDAL	<ul style="list-style-type: none"> ● Concept, utility and Interpretation of: Climograph, Hythergraph and Ergograph 	9
FARUK BISWAS	<ul style="list-style-type: none"> ● Preparation and Interpretation of Demographic Charts and Diagrams (Age-Sex Pyramid) 	12
SAYANI SAHA	<ul style="list-style-type: none"> ● Concepts of Bearing: Magnetic and True, Whole-circle and Reduced 	8
SAYANI SAHA	<ul style="list-style-type: none"> ● Basic Concepts of Surveying and Survey Equipments: Abneys Level, Clinometer 	10
FARUK BISWAS	<ul style="list-style-type: none"> ● Basic Concepts of Surveying and Survey Equipments: Prismatic Compass, Dumpy Level, Transit Theodolite 	11
SHILPI MONDAL	<ul style="list-style-type: none"> ● Interpretation of Landuse and landcover maps 	6
	<ul style="list-style-type: none"> ● GEO/H/CC/P/04: (Practical): Cartograms, Survey and Thematic Mapping 	
MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Diagrammatic Representation of Data: Star and Age-sex Pyramid Diagram, Pie Diagram 	12
SHILPI MONDAL	<ul style="list-style-type: none"> ● Representation of Data on Map by Proportional Circles, Dots and Spheres, Isolines and Choropleth method 	18

FARUK BISWAS	<ul style="list-style-type: none"> Survey: Traversing by Prismatic Compass and Dumpy Level with One Change Point (Profile Drawing) 	20
MINAKSHI MONDAL	<ul style="list-style-type: none"> Determination of Height of Objects using Transit Theodolite (Accessible bases) 	10
GEO/H/CC/T/05: (Theory): Climatology		
	Unit-1: Elements of the Atmosphere	
SHILPI MONDAL	<ul style="list-style-type: none"> Nature, Composition and Layering of the Atmosphere 	5
MINAKSHI MONDAL	<ul style="list-style-type: none"> Insolation: Controlling Factors. Heat Budget of the Atmosphere 	6
FARUK BISWAS	<ul style="list-style-type: none"> Temperature: Horizontal and Vertical Distribution; Inversion of Temperature: Types, Causes and Consequences 	5
SHILPI MONDAL	<ul style="list-style-type: none"> Greenhouse Effect and Importance of Ozone Layer 	4
	Unit-2: Atmospheric Phenomena, Climate Change and Climatic Classification	
SAYANI SAHA	<ul style="list-style-type: none"> Condensation: Processes and Forms; Mechanism of Precipitation: Bergeron-Findeisen Theory, Collision and Coalescence; Forms of Precipitation 	11
SHILPI MONDAL	<ul style="list-style-type: none"> Condensation: Processes and Forms; Mechanism of Precipitation: Bergeron-Findeisen Theory, Collision and Coalescence; Forms of Precipitation 	9
MINAKSHI MONDAL	<ul style="list-style-type: none"> Fronts: Warm and Cold; Frontogenesis and Frontolysis 	6

FARUK BISWAS	<ul style="list-style-type: none"> Weather: Stability and Instability; Barotropic and Baroclinic Conditions 	8
SHILPI MONDAL	<ul style="list-style-type: none"> Circulation in the Atmosphere: Planetary Winds; Jet Stream 	6
FARUK BISWAS	<ul style="list-style-type: none"> Monsoon Circulation and Mechanism with reference to India 	6
FARUK BISWAS	<ul style="list-style-type: none"> Tropical and Mid-latitude Cyclones 	9
SAYANI SAHA	<ul style="list-style-type: none"> Climatic Classification after Köppen, Thornthwaite (1931 and 1948) 	5

CC/06: Statistical Methods in Geography

	<ul style="list-style-type: none"> GEO/H/CC/T/06: (Theory): Statistical Methods in Geography 	
SHILPI MONDAL	<ul style="list-style-type: none"> Unit-1: Importance and Significance of Statistics in Geography; Discrete and Continuous Data; Population and Samples; Scales of Measurement (Nominal, Ordinal, Interval and Ratio); Sources of Data 	10
MINAKSHI MONDAL	<ul style="list-style-type: none"> Collection of Data and Formation of Statistical Tables 	6
FARUK BISWAS	<ul style="list-style-type: none"> Sampling: Need, Types, and Significance and Methods of Purposive, Random, Systematic and Stratified 	6
SAYANI SAHA	<ul style="list-style-type: none"> Distribution: Frequency, Cumulative Frequency; Probability: Normal Distribution 	8
SHILPI MONDAL	<ul style="list-style-type: none"> Unit-2: Central Tendency: Mean, Median, Mode, Partition Values 	8

MINAKSHI MONDAL	<ul style="list-style-type: none"> Measures of Dispersion: Range, Mean Deviation, Standard Deviation, Coefficient of Variation 	10
FARUK BISWAS	<ul style="list-style-type: none"> Association and Correlation: Rank Correlation, Product Moment Correlation 	6
SAYANI SAHA	<ul style="list-style-type: none"> Linear Regression and Time Series Analysis 	6
	<ul style="list-style-type: none"> GEO/H/CC/P/06: (Practical): Statistical Methods in Geography 	
MINAKSHI MONDAL	<ul style="list-style-type: none"> Construction of Data Matrix with each Row representing an Aerial Unit (Districts / Blocks / Mouzas / Towns) and Corresponding Columns of Relevant Attributes 	15
SHILPI MONDAL	<ul style="list-style-type: none"> Based on the above, a Frequency Table, Measures of Central Tendency and Dispersion would be Computed and Interpreted 	20
SAYANI SAHA	<ul style="list-style-type: none"> Histograms and Frequency Curve would be Prepared on the Dataset 	10
FARUK BISWAS	<ul style="list-style-type: none"> Based on the Sample Set and using Two Relevant Attributes, a Scatter Diagram and Regression Line would be Plotted and Residual from Regression would be Mapped with a short Interpretation 	15
<ul style="list-style-type: none"> GEO/H/CC/T/07: (Theory): Geography of India 		
	<ul style="list-style-type: none"> Unit-1: Geography of India 	
MINAKSHI MONDAL	<ul style="list-style-type: none"> Physical: Geology and Physiographic Divisions 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Regionalisation of India: Physiographic (R.L. Sing); Socio-Cultural (Sopher) and Economic (Sengupta) 	7

SHILPI MONDAL	<ul style="list-style-type: none"> ● Climate, Soil and Vegetation: Characteristics and Classification 	9
MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Population: Distribution, Growth, Structure and Policy 	8
FARUK BISWAS	<ul style="list-style-type: none"> ● Distribution of Population by Race, Caste, Religion, Language, Tribes 	9
FARUK BISWAS	<ul style="list-style-type: none"> ● Agricultural Regions; Green Revolution and its Consequences 	5
SAYANI SAHA	<ul style="list-style-type: none"> ● Mineral and Power Resources: Distribution and Utilisation of Iron Ore, Coal, Petroleum, Natural Gas 	8
SAYANI SAHA	<ul style="list-style-type: none"> ● Industrial Development: Automobile and Information Technology 	6
	<ul style="list-style-type: none"> ● Unit 2: Geography of West Bengal 	
FARUK BISWAS	<ul style="list-style-type: none"> ● Physical Perspectives: Physiographic Divisions, Forest and Water Resources 	7
SHILPI MONDAL	<ul style="list-style-type: none"> ● Population: Growth, Distribution and Human Development 	6
SHILPI MONDAL	<ul style="list-style-type: none"> ● Resources: Mining, Agriculture and Industries 	7
SAYANI SAHA	<ul style="list-style-type: none"> ● Regional Development: Darjeeling Hills, Sundarban Delta, Nadia and Murshidabad District 	6

● SKILL ENHANCEMENT COURSE (SEC):

	<ul style="list-style-type: none"> ● GEO/H/SEC/P/01/A: (Practical): Computer Basics and Computer Applications 	
SHILPI MONDAL	<ul style="list-style-type: none"> ● Numbering Systems; Binary Arithmetic 	10
SHILPI MONDAL	<ul style="list-style-type: none"> ● Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Coefficient of Variation , Regression 	17
FARUK BISWAS	<ul style="list-style-type: none"> ● Preparation of Annotated Diagrams and its Interpretation: Scatter Diagram and Histogram 	15
SAYANI SAHA	<ul style="list-style-type: none"> ● Internet Surfing: Generation and Extraction of Information 	18

GEO/H/CC/T/08: (Theory): Regional Planning and Development

	Unit-I: Regional Planning	
SHILPI MONDAL	<ul style="list-style-type: none"> ● Concept of region, Types and delineation: Formal, functional and planning regions 	8
SAYANI SAHA	<ul style="list-style-type: none"> ● Types of planning, principles and techniques of regional planning 	8
FARUK BISWAS	<ul style="list-style-type: none"> ● Needs of regional planning, multi level planning in India 	6
MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Concept of metropolitan and urban agglomerations; Regionalisation of India for planning (Agro-Ecological Zones) 	8
	Unit-II: Regional Development	

FARUK BISWAS	<ul style="list-style-type: none"> Development: Meaning, growth versus development 	4
FARUK BISWAS	<ul style="list-style-type: none"> Theories and models for regional development: Growth pole model of Perroux; growth foci model in Indian context (R.P. Misra) 	8
SHILPI MONDAL	<ul style="list-style-type: none"> Theories and models for regional development: Cumulative causation (Myrdal), Core periphery (Hirschman, Rostow and Friedman) 	12
SAYANI SAHA	<ul style="list-style-type: none"> Changing concept of development; concept of underdevelopment 	4
MINAKSHI MONDAL	<ul style="list-style-type: none"> Concept and indicators of regional imbalances in India 	5
SHILPI MONDAL	<ul style="list-style-type: none"> Significance of balanced development in India 	5
SAYANI SAHA	<ul style="list-style-type: none"> Human development: Significance, Indicators and Measurement 	5
● GEO/H/CC/T/09: (Theory): Economic Geography		
	Unit-I: Concept	
FARUK BISWAS	<ul style="list-style-type: none"> Meaning and approaches to Economic Geography 	4
MINAKSHI MONDAL	<ul style="list-style-type: none"> Concept in Economic geography: goods and services production, exchange and consumption 	6

SHILPI MONDAL	<ul style="list-style-type: none"> • Factors influencing location of economic activity and forces of agglomeration 	6
SAYANI SAHA	<ul style="list-style-type: none"> • Determining factors of transport costs 	5
	Unit-II: Economic Activities	
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Concept and classification of economic activities 	4
SHILPI MONDAL	<ul style="list-style-type: none"> • Location theories with special reference to agriculture (Vonthunen), and industry (Weber) 	7
FARUK BISWAS	<ul style="list-style-type: none"> • Primary activities: Subsistence and commercial agriculture; forestry (types and management); fishing (distribution of world fishing zones); mining (role of mining in economic development) activity in India 	12
SAYANI SAHA	<ul style="list-style-type: none"> • Secondary activities: Manufacturing (Cotton textile in India and U.S.A., Iron and steel in India and Japan), 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Concept of manufacturing region: special economic zones and technology parks 	6
MINAKSHI MONDAL	<ul style="list-style-type: none"> • Tertiary activities: transport, trade and services 	8
FARUK BISWAS	<ul style="list-style-type: none"> • Agricultural systems: Case studies of tea plantation in India and mixed farming in Europe 	7
SHILPI MONDAL	<ul style="list-style-type: none"> • Transnational sea-routes; railways and highways with reference to India 	7

● GEO/H/CC/T/10: (Theory): Environmental Geography

FARUK BISWAS	<ul style="list-style-type: none"> ● Environmental Geography: Concept and Scope 	6
MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Perception of environment in different stages of civilization 	8
SHILPI MONDAL	<ul style="list-style-type: none"> ● Concept of holistic environment; concept of EIA 	7
SAYANI SAHA	<ul style="list-style-type: none"> ● Ecosystem: concept, structure and functions 	10
FARUK BISWAS	<ul style="list-style-type: none"> ● Environmental pollution and degradation: Land, water and air 	9
MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Environmental issues related to agriculture 	6
SAYANI SAHA	<ul style="list-style-type: none"> ● Urban environmental issues with special reference to waste management 	6
SHILPI MONDAL	<ul style="list-style-type: none"> ● Environmental programmes and policies: global (Earth summit, 1992; Montreal and Kyoto protocols), national and local levels. 	8
	<ul style="list-style-type: none"> ● GEO/H/CC/P/10: (Practical): Environmental Geography 	
FARUK BISWAS	<ul style="list-style-type: none"> ● Preparation of questionnaire for perception survey on environmental problems 	15
SHILPI MONDAL	<ul style="list-style-type: none"> ● Environmental mapping; Quality assessment of soil using field kit: pH and NPK 	25

SAYANI SAHA	<ul style="list-style-type: none"> • Interpretation of air quality using CPCB/ WBPCB data 	20
SKILL ENHANCEMENT COURSE (SEC):		
SHILPI MONDAL & SAYANI SAHA	<ul style="list-style-type: none"> • GEO/H/SEC/P/02/B: (Practical): Field Work 	60
CC/11: Research Methodology and Field Work		
	GEO/H/CC/T/11: (Theory): Research Methodology and Field Work	
	Unit-I: Research Methodology	
SHILPI MONDAL	<ul style="list-style-type: none"> • Research in Geography: Meaning, types and significance 	7
SHILPI MONDAL	<ul style="list-style-type: none"> • Significance of literature review and formulation of research design 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Defining research problem, objectives and hypothesis; Research materials and methods 	7
SAYANI SAHA	<ul style="list-style-type: none"> • Structure of research report: Title, Acknowledgement, Abstract and Key-words, Introduction, Literature Survey, Methodology, Result and Discussion, Conclusion including Recommendations and Suggestions, References and Bibliography (APA style) 	9
	Unit-II: Fieldwork	

SHILPI MONDAL	<ul style="list-style-type: none"> Fieldwork in Geographical studies – Role and significance; Selection of study area and objectives; Pre-field preparations; Ethics of fieldwork 	8
SAYANI SAHA	<ul style="list-style-type: none"> Field techniques and tools: Observation (participant, non participant), questionnaires (open, closed, structured, non-structured); Interview with special reference to focused group discussions 	9
SHILPI MONDAL	<ul style="list-style-type: none"> Field techniques and tools: Landscape survey using transects and quadrants, relevant constructing sketches, diagrams, photographs and video recording 	8
SAYANI SAHA	<ul style="list-style-type: none"> Designing a field report – Aims and Objectives, Methodology, Analysis, Interpretation and Writing the report 	6
SHILPI MONDAL & SAYANI SAHA	GEO/H/CC/P/11: (Practical): Research Methodology and Field Work	60
CC/12: Remote Sensing and GIS		
	GEO/H/CC/T/12: (Theory): Remote Sensing and GIS	
	Unit-I: Remote Sensing	
SHILPI MONDAL	<ul style="list-style-type: none"> Definition and stages of Remote Sensing (RS); Platforms and Sensors 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Sensor resolutions and their applications with reference to IRS and LANDSAT missions, image referencing schemes and data acquisition 	8
SHILPI MONDAL	<ul style="list-style-type: none"> Aerial Photographs: Types, Geometry and photo interpretation keys; Concept of FCC 	10

SAYANI SAHA	<ul style="list-style-type: none"> Principles of Image interpretation (Visual and Digital) 	10
	Unit-II: Geographical Information Systems and Global Navigation Satellite System	
SHILPI MONDAL	<ul style="list-style-type: none"> GIS data structures: types (spatial and non-spatial), raster and vector 	10
SAYANI SAHA	<ul style="list-style-type: none"> Principles of preparing attributes tables, data manipulation and overlay analysis 	8
SAYANI SAHA	<ul style="list-style-type: none"> Principles of GNSS positioning and waypoint collection; Transferring of waypoints to GIS. 	8
	GEO/H/CC/P/12: (Practical): Remote Sensing and GIS	
SHILPI MONDAL	<ul style="list-style-type: none"> Georeferencing of map 	10
SHILPI MONDAL	<ul style="list-style-type: none"> Digitisation of features: Point, Line and Polygon 	12
SAYANI SAHA	<ul style="list-style-type: none"> Data attachment overlay and preparation of thematic map (bargraph, pie-chart and choropleth) 	15
SAYANI SAHA	<ul style="list-style-type: none"> Preparation of FCC using IRS LISS-III and/or LANDSAT (ETM+) data 	12
SAYANI SAHA	<ul style="list-style-type: none"> Preparation of LULC map by Supervised Image Classification (Maximum Likelihood) using IRS LISS-III or LANDSAT (ETM+) data 	11
GEO/H/DSE/T/01/B: (Theory): Cultural and Settlement Geography		

	Unit-I: Cultural Geography	
SAYANI SAHA	<ul style="list-style-type: none"> • Definition, Scope and Content of Cultural Geography 	8
SHILPI MONDAL	<ul style="list-style-type: none"> • Development of cultural geography 	6
SAYANI SAHA	<ul style="list-style-type: none"> • Cultural Hearth and Realm; Cultural diffusion: process and types 	8
SAYANI SAHA	<ul style="list-style-type: none"> • Cultural segregation and cultural diversity; Culture, technology and development 	9
SHILPI MONDAL	<ul style="list-style-type: none"> • Major racial groups of the world: Distribution and characteristics 	12
	<ul style="list-style-type: none"> • Unit-II: Settlement Geography 	
SHILPI MONDAL	<ul style="list-style-type: none"> • Settlement Geography: Scope and Content 	8
SAYANI SAHA	<ul style="list-style-type: none"> • Morphology of rural settlements: layout-internal and external 	8
SAYANI SAHA	<ul style="list-style-type: none"> • Rural house types with reference to India 	7
SHILPI MONDAL	<ul style="list-style-type: none"> • Urban Settlements: Census definitions (Temporal) 	6
SHILPI MONDAL	<ul style="list-style-type: none"> • Urban morphology: Classical models-Burges, Homer Hoyt, Harris and Ullman, Functional classification of cities: Harris, Nelson and McKenzie 	18

GEO/H/DSE/T/02/A: (Theory): Population Geography

SHILPI MONDAL	<p>Unit-I</p> <ul style="list-style-type: none"> Development of Population Geography as a field of specialization; Relation between population geography and demography; Sources of population data with special reference to India (Census, Vital statistics and NSS) 	9
SAYANI SAHA	<ul style="list-style-type: none"> World patterns determinants of population distribution and growth; Concept of optimum population 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Demographic Transition Model; Theories of population growth: Malthusian and Marxian theory 	11
SHILPI MONDAL	<ul style="list-style-type: none"> Population distribution, density and growth profile in India 	5
SAYANI SAHA	<p>Unit-II</p> <ul style="list-style-type: none"> Population Composition and Characteristics: Age-Sex Pyramid; Female-Male Ratio 	7
SAYANI SAHA	<ul style="list-style-type: none"> Determinate measures of Fertility and Mortality 	7
SAYANI SAHA	<ul style="list-style-type: none"> Population Composition of India: Rural and Urban, Occupational Structure as per Census of India 	9
SHILPI MONDAL	<ul style="list-style-type: none"> Migration: Theories, Causes and Types 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Concept of Human Development Index 	4

SAYANI SAHA	<ul style="list-style-type: none"> Population and development: population-resource regions 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Population policies in Selected Countries: India and China 	7
SHILPI MONDAL	<ul style="list-style-type: none"> Contemporary Issues in Population: Health and Unemployment 	9
GEO/H/CC/T/13: (Theory): Evolution of Geographical Thoughts		
	<ul style="list-style-type: none"> Unit-I: Nature of Pre Modern Geography 	
MINAKSHI MONDAL	<ul style="list-style-type: none"> Development of Geography and contributions of Greek, Chinese and Indian geographers 	6
MINAKSHI MONDAL	<ul style="list-style-type: none"> Impact of 'Dark Age' on Geography and Arab contributions 	6
FARUK BISWAS	<ul style="list-style-type: none"> Geography during the Age of 'Discovery' and 'Exploration' (Contributions of Portuguese Voyages, Columbus, Vasco da Gama, Magellen, Thomas Cook) 	8
SAYANI SAHA	<ul style="list-style-type: none"> Transition from Cosmography to Scientific Geography (Contributions of Bernard Varenius and Immanuel Kant); Dualism and Dichotomies (General vs. Particular, Physical Vs. Human, Regional vs. Systematic, Determinism vs. Possibilism, Ideographic vs. Nomothetic) 	15
	<ul style="list-style-type: none"> Unit-II: Foundations of Modern Geography and Recent Trends 	
MINAKSHI MONDAL	<ul style="list-style-type: none"> Evolution of Geographical thoughts in Germany, France, Britain and United States of America 	6

SHILPI MONDAL	<ul style="list-style-type: none"> Contributions of Humbolt and Ritter 	6
SHILPI MONDAL	<ul style="list-style-type: none"> Contributions of Ratzel, Richthofen and Hettner 	8
MINAKSHI MONDAL	<ul style="list-style-type: none"> Schools of Geographical thought: French, British and American 	7
SAYANI SAHA	<ul style="list-style-type: none"> Trends of Geography in the post World War-II period 	7
SAYANI SAHA	<ul style="list-style-type: none"> Evolution of Geographical thought in India 	5
FARUK BISWAS	<ul style="list-style-type: none"> Quantitative Revolution and its impact; the perspectives of Behaviouralism, Systems approach, Radicalism and Feminism in Geography 	10
FARUK BISWAS	<ul style="list-style-type: none"> Towards Post Modernism: Changing concept of space in Geography; Geography in the 21st Century 	6

CC14: Disaster Management

	<ul style="list-style-type: none"> Unit-I: Concepts 	
SHILPI MONDAL	<ul style="list-style-type: none"> Classification of Hazards and Disasters 	8
SAYANI SAHA	<ul style="list-style-type: none"> Approaches to hazard study: Risk perception and vulnerability assessment; Hazard paradigms 	10
FARUK BISWAS	<ul style="list-style-type: none"> Responses to hazards and disasters: Preparedness, trauma and aftermath; Resilience and capacity building 	6

MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Hazards mapping: Data and techniques 	8
	<ul style="list-style-type: none"> ● Unit-II: Disaster Case Studies 	
SHILPI MONDAL	<ul style="list-style-type: none"> ● Earthquake: Factors, vulnerability, consequences and management 	7
SAYANI SAHA	<ul style="list-style-type: none"> ● Landslide: Factors, vulnerability, consequences and management 	7
FARUK BISWAS	<ul style="list-style-type: none"> ● Cyclone: Factors, vulnerability, consequences and management 	7
MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Fire: Factors, vulnerability, consequences and management 	7
	GEO/H/CC/P/14: (Practical): Disaster Management	
FARUK BISWAS & SAYANI SAHA & SHILPI MONDAL	<p>An individual Project Report based on any one case study among the following disasters incorporating a preparedness plan in the vicinity of the candidate's institution or residence:</p> <ul style="list-style-type: none"> ● Thunderstorm ● Landslide ● Flood ● Coastal / river bank erosion ● Fire ● Industrial accident ● Structural collapse 	60
GEO/H/DSE/T/03/B: (Theory): Resource Geography		
SHILPI MONDAL	<ul style="list-style-type: none"> ● Unit-I ● Natural Resources: Concept and Classification 	8

MINAKSHI MONDAL	<ul style="list-style-type: none"> Approaches to resource utilisation :Utilitarian, conservational, community based adaptive 	9
SAYANI SAHA	<ul style="list-style-type: none"> Conservation of Natural Resources – Need and Significance 	7
FARUK BISWAS	<ul style="list-style-type: none"> Problems of resource depletion - Global scenario (forest, water, fossil fuels) 	11
MINAKSHI MONDAL	<ul style="list-style-type: none"> Unit-II Distribution, Utilisation, Problems and Management of Metallic Resources: Iron ore, Bauxite 	15
FARUK BISWAS	<ul style="list-style-type: none"> Distribution, Utilisation, Problems and Management of Non-Metallic Mineral Resources: Mica, Gypsum 	14
SAYANI SAHA	<ul style="list-style-type: none"> Problems and Management of Energy Resources: Conventional and non-conventional 	8
SHILPI MONDAL	<ul style="list-style-type: none"> Contemporary Energy Crisis and Future Scenario 	9
SHILPI MONDAL	<ul style="list-style-type: none"> Limits to Growth and Sustainable use of Resources 	9
GEO/H/DSE/T/04/A: (Theory): Soil and Bio Geography		
MINAKSHI MONDAL	<ul style="list-style-type: none"> Factors of soil formation; Man as an active agent of soil transformation 	8
MINAKSHI MONDAL	<ul style="list-style-type: none"> Concept of soil profile; origin and profile characteristics of Lateritic, Podzol and Chernozem soils 	10

MINAKSHI MONDAL	<ul style="list-style-type: none"> ● Definition and significance of soil properties: Texture, structure and moisture 	10
SAYANI SAHA	<ul style="list-style-type: none"> ● Definition and significance of soil properties: pH, organic matter and NPK 	7
SAYANI SAHA	<ul style="list-style-type: none"> ● Soil erosion and degradation: Factors, processes and mitigation measures 	7
FARUK BISWAS	<ul style="list-style-type: none"> ● Principles of soil classification: Genetic and USDA. Concept of land capability and its classification 	10
SAYANI SAHA	<ul style="list-style-type: none"> ● Concepts of ecology, biosphere, ecosystem, biome, ecotone, community 	9
SHILPI MONDAL	<ul style="list-style-type: none"> ● Concept of trophic structure, food chain and food web; Energy flow in ecosystems 	8
SHILPI MONDAL	<ul style="list-style-type: none"> ● Geographical extent and characteristic features of Tropical rain forest, Taiga and Grassland biomes 	9
SHILPI MONDAL	<ul style="list-style-type: none"> ● Bio-geochemical cycles with special reference to carbon dioxide and nitrogen 	7
FARUK BISWAS	<ul style="list-style-type: none"> ● Deforestation: Causes, consequences and management 	5
SHILPI MONDAL	<ul style="list-style-type: none"> ● Bio-diversity: Definition, types, threats and conservation measures 	6

DEPARTMENT OF HISTORY.

MODULARISATION OF SYLLABUS 2017-2022.

HISTORY HONOURS.

Course – I

History of Early India, from remote past to the end of the Vedic Polity

Unit-1: Historiography of early India – historical interpretations - imperialist vs nationalist school - leftist vs liberal school - secular vs religious school- SUTAPA SAHA MITRA

Unit-2: Evolution from paleolithic to neolithic cultures - chalcolithic societies from Baluchistan to Gujrat - growth and decline of pre-state non-iron urban culture - the Harappan Civilization ; problem of the Indus script - journey from proto-historic to historic India- SRABANTI DAS

Unit-3: Legacy of the Harappan Culture - the Aryan penetration and the Anglo-Oriental debate ; beginning of iron age and settled agriculture - patterns of settlement and cultural changes - emergence of caste society, organized religion and state territoriality - the Vedic literature- TARAMANI TARAFDAR & NIRMAL KUMAR HATI

Unit-4: The non-Vedic political economy of the 16 Mahajanapadas - spread of protestant religions – Ajivikism, Jainism and Buddhism ; commercial and urban growth of India - rise of Magadha as an imperial power- AKHIL SARKAR & DIPAK HAZRA

Course – II

Social Formation and Cultural pattern of the Ancient and early Medieval World

Unit-1: Pre-historic and proto-historic cultures beyond India – beginning of agriculture and animal husbandry – searches into the history of Africa, the Aztec Civilization and the Inca Society- TARAMANI TARAFDAR

Unit-2: Bronze Civilizations of Egypt, Mesopotamia, China and eastern Mediterranean lands

SUTAPA SAHA MITRA

Unit-3: The Polis and slave society of ancient Greece - rise of ancient Rome – decline of the Roman Empire – agrarian economy and trade – the Church and the question of religion-

SRABANTI DAS

Unit-4: Societies in Central Islamic Lands - spread of Islam – the Ummah, Caliphate State, Shariah and Sufi culture- AKHIL SARKAR

Semester-2

Course-III

Ancient India from the Maurya to Late Gupta period

Unit-1:The Maurya rule in Magadha - Asoka's Dhamma and administration - the policy of cultural conquest- SUTAPA SAHA MITRA/ DIPAK HAZRA

Unit-2: The post-Maurya India of the Kushanas, Satavahanas and Tamil powers, Chera,Chola and Pandya - new trends in economy and society – peasantization of tribes and changes in the caste system ; spread of megalithic culture - splits in Jainism and Buddhism - Vaishnavism, Saivism and Tantricism- SRABANTI DAS & NIRMAL KUMAR HATI

Unit-3: Age of the Guptas - consolidation of Second Magadhan empire - debates on golden age, brahminical revival and growth of feudalism - decline of the Gupta power and beginning of political decentralization of India - assessing Harshavardhana as the last great emperor- AKHIL SARKAR

Unit-4: Early India in retrospect – society and culture and environment - literature and philosophy - art and architecture - science, technology and guild - trade and industry-

TARAMANI TARAFDAR

Course-IV

History of Early Medieval India

Unit-1: Sources of History and historiography of the period - contemporary texts and travelogues - indigenous literature and archaeology- SUTAPA SAHA MITRA

Unit-2: From centralized to decentralized India - The Rajputs of North India - Palas and Senas in Bengal - Kingdoms of the South – The Pallavas, Rashtrakutas, Chalukyas and Cholas-

SRABANTI DAS

Unit-3: Condition in the pre-Sultanate period - Polity, Society, Economy, Religion and Culture - towards transition- TARAMANI TARAFDAR

Unit-4: Northern India under the Delhi Sultanate - the Turkish invasions from 997 to 1206 AD - consolidation of the Sultanate from 1206 to 1286 AD - the Khalji Revolution and the omnipotent state under the Khaljis - The Tughluq period of reforms and counter reforms - decline of the Delhi Sultanate- AKHIL SARKAR

Semester-3

Course – V

The Delhi Sultanate in Retrospect

Unit-1: The successor states of Bijoy Nagar, Bahmani and Bengal - society, economy, art, architecture and literature- AKHIL SARKAR

Unit-2: Delhi on the eve of the Mughal ascent - Timur's invasion - the Sayyids and Lodis - Babur's adventure - Babur's central Asian connection - Humayun's misfortune - Sher Shah Sur and Afghan rule in India- SRABANTI DAS

Unit-3: Economy of Sultanate India - changes in land revenue administration - new agrarian relations - industry and urbanization - trade and currency- SUTAPA SAHA MITRA & DIPAK HAZRA

Unit-4: Ideas of state and kingship - moves from theocracy to secular administration - development of bhakti and sufi philosophy - language, literature, art and architecture- TARAMANI TARAFDAR & NIRMAL KUMAR HATI

Course - VI

Rise of the Modern West

Unit-1: Structural features of European feudalism - the Crusades and the 14th century crisis of feudalism - decline of feudalism in western Europe but its survival in eastern Europe – SUTAPA SAHA MITRA

Unit-2: Socio-economic roots of Renaissance - spread of new social ideas - secularism and humanism - art, architecture, science and literature - the printing revolution- SRABANTI DAS & DIPAK HAZRA

Unit-3: Reformation – origin, course and results - progress of the movement from Luther to Calvin ; the counter Reformation- AKHIL SARKAR

Unit-4: Europe from Thirty Years' War to Seven Years' War – rise of early nation states, Spain, France, England and Russia- TARAMANI TARAFDAR & NIRMAL HATI

Course – VII

Europe in Transition

Unit-1: Geographical explorations and overseas empires of Portugal and Spain - shift of economic balance from the Mediterranean to the Atlantic ocean - commercial and price revolution- SRABANTI DAS & NIMAL HATI

Unit-2: Seventeenth century crisis in Europe - mercantilism and economic transition - Glorious Revolution in England and great changes in political, economic and state structure; from scientific to Industrial Revolution - rise of industrial societies in Europe- TARAMANI TARAFDAR & DIPAK HAZRA

Unit-3: American War of Independence – birth of new democratic politics- AKHIL SARKAR

Unit-4: From the age of Enlightenment to the Age of Liberalism - from feudalism to capitalism- the transition debate- SUTAPA SAHA MITRA

Semester-4

Course - VIII

History of Mughal India

Unit-1: Survey of sources and different aspects of historiography of Mughal India – reading of the texts of AbulFazal, Badauni, Abdul Hamid Lahori and Bernier - Studies in the writings of Sir Jadunath Sarkar and historians from Delhi and Aligarh schools- TARAMANI TARAFDAR

Unit-2: Making of the Mughal State from Akbar to Aurangzeb - state and religion - management of land and agriculture - evolution of the administrative system - mansab and jagir - the Mughal ruling classes - nobility and zamindars - the peasants and village community- SRABANTI DAS

Unit-3: Trade, commerce, and monetary system - routes of trade and commodity pattern of internal transactions - overseas trade and commodity pattern - markets and monetary system-

AKHIL SARKAR

Unit-4: Urban centres - morphology of cities - urban economy – crafts, technology and industry - imperial *karkhanas* - urban social structure, merchant communities, bankers, artisans, craftsmen and labourers- SUTAPA SAHA MITRA

Course – IX

History of Late Medieval India

Unit-1: Society and culture – religion of the masses - language, music and literature - art and architecture- DIPAK HAZRA

Unit-2: Regional polity – the Marathas under *Shivaji* and the *Peshwas* - the Sikh challenge- NIRMAL HATI

Unit-3: Decline of the Mughal Empire - agrarian crisis and the eighteenth century debate- SRABANTI DAS&TARANMANI TARAFDAR

Unit -4 : Emergence of successor states – Bengal, *Awadh*, Mysore and Hyderabad- AKHIL SARKAR & SUTAPA SAHA MITRA

Course - X

Rise of Modern Europe

Unit-1: Historiography – studies in the writings of Alfred Cobban, Lefebvre, Eric Hobsbawm, E.P.Thompson, David Thomson and A.J.P.Taylor- TARAMANI TARAFDAR

Unit-2: The eighteenth century background to the French Revolution - society, economy, and polity ; the philosophers and the ideological revolution- SUTAPA SAHA MITRA

Unit-3: People in the French Revolution – aristocracy, bourgeois, peasants and workers - the Constituent Assembly and its achievements - Girondins and Jacobins - the Reign of Terror and the Rise and fall of the Jacobin Republic - the Thermidorian reaction and the Directory ; the Napoleonic Era - interpreting the French Revolution SRABANTI DAS & DIPAK HAZRA

Unit-4: The unity and disunity in Europe in 1815 - the Vienna Congress and rise of Metternich - struggle between forces of continuity and change- AKHIL SARKAR

Semester-5

Course - XI

History of Modern India from the beginning of colonial rule to the Great Revolt

Unit-1: Understanding Modern Indian History- historiography, concepts, terminologies, approaches- SUTAPA SAHA MITRA

Unit-2: Expansion and Consolidation of British Rule with special reference to Bengal, Maharashtra, Mysore, Punjab and Awadh ; colonial state and its ideology - rule of law, orientalism, utilitarianism- AKHIL SARKAR & DIPAK HAZRA

Unit-3: Rural Economy and Society – land revenue settlements - agrarian structure and transformation debate - commercialization of agriculture - rural stratification thesis, peasants and landless labourers - detribalization and the environmental question - de-industrialization, rural credit and indebtedness – SRABANTI DAS

Unit-4: Nature of colonial exploitation - drain of wealth - famines in India - monetization and entitlement debate - resistance from the tribes and peasants till the Revolt of 1857 - analysing the Revolt and its aftermath- TARAMANI TARAFDAR & NIRMAL KUMAR HATI

Course – XII

History of Modern India from Renaissance to Independence

Unit-1: The cultural revolution of the nineteenth century - critique of Young Bengal Movement, Bengal Renaissance, social and religious reforms - colonisation of education - the women's question- DIPAK HAZRA & NIRMAL KUMAR HATI

Unit-2: Re-industrialisation of India following the spread of railway network - colonial fiscal policy and the balance of Indian trade - rise and growth of the Indian capitalist and working class
AKHIL SARKAR & SRABANTI DAS

Unit-3: Interpreting Indian nationalism – messianic and developmental - different phases of the nationalist struggle - politics of association and politics of union - different political parties and their ideologies - role of Gandhi, Tagore, Subhas Bose, Nehru and Jinnah - workers' and peasants' movements – SUTAPA SAHA MITRA & AKHIL SARKAR

Unit-4: Colonial policy of divide and rule - religious polarisation of the nationalist leaders - demand for Pakistan and partition of 1947 - the refugee question - struggle for new developmental economy, democracy and security in the bi-polar world- TARAMANI TARAFDAR

Semester-6

Course –XIII

Modern Europe : From Nationalism to Socialism

Unit-1: The age of Revolutions – the national revolutions (1830-1850) - the liberal revolutions and the transformation of Russian society - remaking of eastern Europe- DIPAK HAZRA

Unit-2: The economic revolutions, consolidation of capitalism and formation of big national states in Germany and Italy - imperial advances before and after Bismarck – developments in eastern Europe - the new balance of power in Europe - Europe divided- AKHIL SARKAR

Unit-3: Politics of democracy - industrial society and its critics - new concept of welfare state and revolution in medical science - reason, social change and social reform - the new woman - arts transformed- SUTAPA SAHA MITRA

Unit-4: The socialist challenge - from utopian to Marxian socialism - the German, French and Russian variety of socialist politics- TARAMANI TARAFDAR

Course – XIV

Trends in World Politics from the First to the Second World War

Unit-1: Different theories of world politics - the Marxist and non-Marxist approaches- SRABANTI DAS

Unit-2: Roots of European imperialism and the World Wars as the total war - impact of war on European mind - Peace settlement of 1919 and search for the collective security - the League of Nations- NIRMAL KUMAR HATI

Unit-3: Aspects of the war economy in the inter-war period - the depression and new theories of mixed economy - the collapse of the Weimer state in Germany and the rise of the Nazis to power - fascism in Italy- AKHIL ARKAR

Unit-4: The World after 1945 - theories of the Cold War and the division of Europe - the emergence of the American and Soviet spheres of influence - various military and economic alliances - regional conflicts in the bi-polar world, Vietnam, Korea, Cuba, the middle east and Afghanistan- SUTAPA SAHA MITRA & TARAMANI TARAFDAR

Discipline Specific Elective Course for Hons.

Semester-5

Course – I

History of China from Tradition to Revolution

Unit-1: Traditional China – sino-centrism - society - social groups and classes - confucian value system - closed chinese economy - the canton trade- SUTAPA SAHA MITRA

Unit-2: Confronting the foreigners - Opium Wars - treaties with imperialist powers - foreigners' struggle for concessions in China - China as an 'informal colony' – increasing western pressure - the open door policy - transformation of China from a feudal society to a semi-colonial and semi-feudal society- SRABANTI DAS & TARAMANI TARAFDAR

Unit-3: The People's response – from Taiping to Boxer - self –strengthening movement and reforms 1860 -1898 and 1901-1908 - revolution of 1911 – from nationalism to comprador-ship, Sun Yat Sen to Yuan-Shi-Kai - Warlordism since 1916 - revolt of the Chinese working class, the May Fourth Movement – DIPAK HAZRA & NIRMAL HATI

Unit-4: Development of Chinese industrial economy and growth of the Chinese proletariat - spread of communism among the proletariat in between the world wars - Chiang Kai Shek, Kuomintang and the united front - break with the front and the mature phase of Chinese communist movement under Mao Tse Tung - the Long March and the Communist Revolution of China – AKHIL SARKAR & SUTAPA SAHA MITRA

Course – II

History of Japan from Meiji Restoration to the Second World War

Unit-1: Tokugawa Baku-han system of Japan– its nature - crisis encounter with the west - Meiji restoration - processes of modernization – social, military, political and economic- SUTAPA SAHA MITRA

Unit-2: Popular and democratic movements - Satsuma rebellion; popular rights movement and Meiji constitution- DIPAK HAZRA

Unit-3: Growth of militarism in Japan and her imperialist projects - Sino -Japanese relations; Anglo-Japanese alliance - Russo-Japanese war - World War I and after - the Manchurian crisis- AKHIL SARKAR

Unit-4: Rise of political parties in Japan and their failure to sustain democratic system - Japan and the two World Wars- NIRMAL HATI

Semester- 6

Course - I

History of Bangladesh from Liberation to the present day

Unit-1 : The genesis – issues of conflict between Pakistani non-Bengali elite group and the rising Bengali middle class of East Pakistan- AKHIL SARKAR

Unit 2 : Political transformation in East Pakistan – emergence of linguistic nationalism since 1952 – resistance against Pakistani militarism – rise of Sheikh Mujibur Rahaman as the new mass leader – Awami League Movement, 1966 to 1970 – Bangladesh liberation movement of 1971 – birth of Bangladesh in 1972- DIPAK HAZRA & SRABANTI DAS

Unit 3 : Bangladesh after independence – society, economy and politics- TARAMANI TARAFDAR

Unit 4 : Foreign policy of Bangladesh – relations with India – role of Bangladesh in the SAARC and ASEAN- NIRMAL HATI

Course – III

History of Women in India

Unit-1 : Women in the Indian tradition – different socio-religious movements in pre-colonial India and women’s position re-defined- TARAMANI TARAFDAR

Unit-2 : Feminism revisited in the Indian context – the women’s question in 19th century India during colonial modernization – the debates on Sati and Purdah- SRABANTI DAS

Unit-3 : The nationalist resolution on the women’s question – women in the freedom movement in India- SUTAPA SAHA MITRA

Unit-4 : Emerging new woman in post-colonial India – women’s organizations and fight against their marginalization – women in Indian literature and performing art- SUTAPA SAHA MITRA

Skill Enhancement Elective Course for Hons.

Semester-3

Course – I

Understanding Heritage, Art and architecture of India

Unit-1 : Defining heritage – an overview of cultural and built heritage of India – notions of art and craft- SUTAPA SAHA MITRA

Unit-2 : Pre-colonial Indian Art and Architecture – early illustrated manuscripts and mural painting traditions – nearly medieval sculpture, style and iconography – numismatic art – miniature painting, Mughal, Rajasthani and Pahari - early Indian architecture, stupa, cave and temple – the Mughals -Indo-Persian architecture, fort, palace and mosque- TARAMANI TARAFDAR& SRABANTI DAS

Unit-3 : The colonial period – western influences on Indian Art and architecture – changes in the post-colonial period- AKHIL SARKAR

Unit-4 : The Bengal School of art and architecture – Birbhum, Bankura and Bishnupur Gharana – Art Movements – Santiniketan style - Progressive Artists' Group – major artists and their works – popular art forms – folk art traditions- DIPAK HAZRA

Semester-4

Course – I

The Bengal Music

Unit-1 : History of Music in Bengal – influence of Vaishnava poetry of the 13th – 14th century – mixture of Hindu and Islamic trends – patronage of Nawabs and big landlords particularly the Baro Bhuiyans- DIPAK HAZRA

Unit-2 : Consolidation of the elite society in Bengal and growth of different forms of music in the 18th, 19th and early 20th centuries – Bishnupur Gharana – Rabindrasangeet, Nazrulgeeti, Dwijendrageeti, Atulprasadi Rajanikanter Gaan – swadeshi and nationalist songs- AKHIL SARKAR

Unit-3 : Aspects of folk culture and folk music of Bengal – Baul, Bhatiali, Bhawaiya, Dhamali, Gambhira, Jhumur, Kavigaan and Jatra- NIRMAL KUMAR HATI

Unit-4 : Modern Bengali Music – post-colonial western influences – middle class romanticism and transformation of Bengali music – leftist movements and new forms of music – media and music – Bengali music in theatre and film – globalization and changes in musical forms – rock and band music- SUTAPA SAHA MITRA

HISTORY GENERIC ELECTIVE

Semester-1

Course – 1

History of India from the Earliest times to the Early Medieval Period

Unit-1 : Sources and interpretation – broad survey of paleolithic, mesolithic and neolithic cultures – the Harappan Civilisation – journey from the Vedic state to the 16 Mahajanapadas – from the age of the Vedas to the age of Jainism and Buddhism- TARAMANI TARAFDAR & SUTAPA SAHA MITRA

Unit-2 : The Maurya rule in Magadha - Asoka's Dhamma and administration - The post-Maurya India of the Kushanas, Satavahanas and Tamil powers, Splits in Jainism and Buddhism - Vaishnavism, Saivism – SRABANTI DAS & AKHIL SARKAR

Unit-3: Age of the Guptas ; consolidation of Magadhan empire ; debates on golden age, brahminical revival and growth of feudalism ; decline of the Gupta power and beginning of

political decentralization of India ; assessing Harshavardhana as the last great emperor- DIPAK HAZRA

Unit-4: From centralized to decentralized India - The Rajputs of North India - Palas and Senas in Bengal - Kingdoms of the South – The Pallavas, Rashtrakutas, Chalukyas and Cholas – changes in Polity, Society, Economy, Religion and Culture - towards transition- NIRMAL KUMAR HATI

Semester -2

Course – 11

History of Medieval India

Unit-1 : Northern India under the Delhi Sultanate - consolidation of the Sultanate from 1206 to 1286 AD ; the Khalji Revolution and the omnipotent state under the Khaljis ; The Tughluq period of reforms and counter reforms ; decline of the Delhi Sultanate - the successor states of Bijoy Nagar, Bahmani and Bengal - society, economy, art, architecture and literature- SUTAPA SAHA MITRA

Unit-2: Delhi on the eve of the Mughal ascent - Timur's invasion - the Sayyids and Lodis - Babu's adventure - Babur's central Asian connection - Humayun's misfortune - Sher Shah Sur and Afghan rule in India - Making of the Mughal State from Akbar to Aurangzeb- AKHIL SARKAR

Unit –3 : Agrarian crisis and the decline of the Mughal Empire - regional polity – the Marathas under *Shivaji* and the *Peshwas* ; the Sikh challenge - emergence of successor states – Bengal, *Awadh*, Mysore and Hyderabad – SRABANTI DAS

Unit – 4 : Mughal India in retrospect - state and religion ; evolution of the administrative system – mansab and jagir - management of land and agriculture – features of urban economy, trade and

industry - society and culture – religion of the masses - language, music and literature ; art and architecture- DIPAK HAZRA

Semester-3

Course – 111

History of Modern India till Independence

Unit-1: Expansion and Consolidation of British Rule with special reference to Bengal, Maharashtra, Mysore, Punjab and Awadh ; colonial state and development of its administration – orientalism and utilitarianism - land revenue settlements and results thereof – DIPAK HAZRA

Unit-2: Exploitation and resistance – de-peasantization and de-industrialization - drain of wealth - famines in India - resistance from the tribes and peasants till the Revolt of 1857 - analysing the revolt and its aftermath – colonial policy of further exploitation through railways and industrial network- TARANMANI TARAFDAR

Unit-3: The cultural revolution of the nineteenth century ; critique of Young Bengal Movement, Bengal Renaissance, social and religious reforms ; colonisation of education ; the women's question- NAIMAL HATI

Unit-4: Interpreting Indian nationalism – swadeshi movement and different phases of the nationalist struggle - role of Gandhi, Tagore, Subhas Bose, Nehru and Jinnah ; workers' and peasants' movements – religious polarisation of national politics – partition and independence (1947) NIRMAL HATI

Semester-4

Course – 1V

History of Europe from the Fifteenth to the Twentieth Century.

Unit-1: Renaissance and Reformation - socio-economic roots - secularism and humanism - art, architecture, science and literature - the printing revolution- SUTAPA SAHA MITRA

Unit-2: Seventeenth century crisis - Glorious Revolution in England and great changes in political, economic and state structure - American War of Independence, birth of new democratic politics - from scientific to Industrial Revolution - rise of industrial societies in Europe – the transition debate- TARAMANI TARAFDAR & SRABANTI DAS

Unit-3: The French Revolution ; society, economy, and polity ; the philosophers and the ideological revolution – the Napoleonic era – the Vienna Settlement and the Metternich system - revolutions of 1830 and 1848 – birth of the united nation states of Germany and Italy – Karl Marx and the socialist challenge in Europe- DIPAK HAZRA & NIRMAL HATI

Unit-4: Roots of European imperialism, Nazism and Fascism - the World Wars as the total wars - from the League of Nations to the UNO - the Cold War after 1945 - various military and economic alliances ; regional conflicts in the bi-polar world, Vietnam, Korea, Cuba, the middle East and Afghanistan- AKHIL SARKAR

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Session 2021-22

DEPARTMENT OF MATHEMATICS

SEMESTER-I				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2021-DEC 2021	JAN 2022-JUNE 2022
MATH-H-CC-T-01	Calculus & Analytical Geometry	Unit 1	DA	--
		Unit 2	SS	--
		Unit 3	AKM	--
MATH-H-CC-T-02	Algebra	Unit 1	AKM	--
		Unit 2	CB	--
		Unit 3	SJS	--
MATH-H-GE-T-01	Algebra & Analytical Geometry	Unit 1	SJS	--
		Unit 2	SS	--
MATH-G-CC-T-01	Algebra & Analytical Geometry	Unit 1	CB	--
		Unit 2	CB	--
SEMESTER-II				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2021-DEC 2021	JAN 2022-JUNE 2022
MATH-H-CC-T-03	Real Analysis	Unit 1	--	SJS
		Unit 2	--	CB
		Unit 3	--	CB
		Unit 4	--	SJS
MATH-H-CC-T-04	Differential Equations	Unit 1	--	SS
		Unit 2	--	SS
		Unit 3	--	DA
		Unit 4	--	DA
		Unit-5	--	DA
MATH-H-GE-T-02	Calculus & Differential Equations	Unit 1	--	DA
		Unit 2	--	SJS
		Unit 3	--	DA+SJS
MATH-G-CC-T-02	Calculus & Differential Equations	Unit 1	--	CB
		Unit 2	--	SS
		Unit 3	--	SJS
SEMESTER-III				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2021-DEC 2021	JAN 2022-JUNE 2022
MATH-H-CC-T-05	Theory of Real Functions & Introduction to Metric Space	Unit 1	DA	--
		Unit 2	CB	--
		Unit 3	CB	--
		Unit 4	DA	--
MATH-H-CC-T-06	Group Theory 1	Unit 1	SJS	--
		Unit 2	SJS	--
		Unit 3	AKM	--
		Unit 4	AKM	--
		Unit 5	SJS	--

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DEPARTMENT OF MATHEMATICS

MATH-H-CC-T-07	Numerical Methods	Unit 1	SS	--
		Unit 2	AKM	--
		Unit 3	SS	--
		Unit 4	DA	--
		Unit 5	DA	--
		Unit 6	AKM	--
	Numerical Methods Lab		DA+SS+AKM	
MATH-H-SEC-T-1	Logic and Sets	Unit 1	SS	--
		Unit 2	SS	--
		Unit 3	SS	--
MATH-H-GE-T-03	Differential Calculus		SJS+SS	--
MATH-G-CC-T-03	Real Analysis		DA	--
MATH-G-SEC-T-1	Logic and Sets	Unit 1	DA	--
		Unit 2	DA	--
		Unit 3	DA	--
SEMESTER-IV				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2021-DEC 2021	JAN 2022-JUNE 2022
MATH-H-CC-T-08	Riemann Integration and Series of Functions	Unit 1	--	DA
		Unit 2	--	DA
		Unit 3	--	DA
		Unit 4	--	DA
		Unit 5	--	DA
MATH-H-CC-T-09	Multivariate Calculus	Unit 1	--	SS
		Unit 2	--	SS
		Unit 3	--	SS
		Unit 4	--	SS
MATH-H-CC-T-10	Ring Theory and Linear Algebra I	Unit 1	--	CB
MATH-H-SEC-T-2	Graph Theory	Unit 1	--	SJS
		Unit 2	--	DA
		Unit 3	--	SJS+DA
MATH-H-GE-T-04	Differential Equations		--	SS+SJS
MATH-G-CC-T-04	Algebra		--	SJS+CB
MATH-G-SEC-T-2	Graph Theory	Unit 1	--	SJS
		Unit 2	--	DA
		Unit 3	--	SJS+DA
SEMESTER-V				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2021-DEC 2021	JAN 2022-JUNE 2022

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DEPARTMENT OF MATHEMATICS

MATH-H-CC-T-11	Partial Differential Equations & Applications	Unit 1	AKM	--
		Unit 2	AKM	--
		Unit 3	AKM	--
MATH-H-CC-T-12	Group Theory II	Unit 1	CB	--
		Unit 2	CB	--
		Unit 3	CC	--
MATH-H-DSE-T-1	Linear Programming	Unit 1	DA	--
		Unit 2	SJS	--
		Unit 3	DA	--
MATH-H-DSE-T-2	Probability and Statistics	Unit 1	SS	--
		Unit 2	SS	--
		Unit 3	SS	--
		Unit 4	SS	--
MATH-G-DSE-T-1	Matrices and Linear Algebra		CB	--
MATH-G-SEC-T-3	Vector Calculus		AKM	--
SEMESTER-VI				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2021-DEC 2021	JAN 2022-JUNE 2022
MATH-H-CC-T-13	Metric Spaces and Complex Analysis	Unit 1	--	CB
		Unit 2	--	CB
		Unit 3	--	CB
		Unit 4	--	CB
MATH-H-CC-T-14	Ring Theory and Linear Algebra II	Unit 1	--	SJS
		Unit 2	--	SJS
		Unit 3	--	SJS
MATH-H-DSE-T-3	Number Theory	Unit 1	--	DA
		Unit 2	--	DA
		Unit 3	--	DA
MATH-H-DSE-T-4	Mechanics	Unit 1	--	SS
		Unit 2	--	SS
		Unit 3	--	SS
		Unit 4	--	SS
MATH-G-DSE-T-2	Linear Programming		--	DA+CB
MATH-G-SEC-T-4	Probability and Statistics		--	SS

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DEPARTMENT OF MATHEMATICS

SEMESTER-I				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2020-DEC 2020	JAN 2021-JUNE 2021
MATH-H-CC-T-01	Calculus, Geometry & Differential Equations	Unit 1	DA	--
		Unit 2	DA+SS	--
		Unit 3	AKM	--
		Unit 4	SS	--
MATH-H-CC-T-02	Algebra	Unit 1	AKM	--
		Unit 2	CB	--
		Unit 3	SJS	--
		Unit 4	SJS+CB	--
MATH-H-GE-T-01	Differential Calculus		SJS+SS	--
MATH-G-CC-T-01	Differential Calculus		CB	--
SEMESTER-II				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2020-DEC 2020	JAN 2021-JUNE 2021
MATH-H-CC-T-03	Real Analysis	Unit 1	--	DA
		Unit 2	--	SJS
		Unit 3	--	DA
MATH-H-CC-T-04	Differential Equations and Vector Calculus	Unit 1	--	AKM
		Unit 2	--	CB
		Unit 3	--	CB
		Unit 4	--	AKM
MATH-H-GE-T-02	Differential Equations		--	SS
MATH-G-CC-T-02	Differential Equations		--	AKM
SEMESTER-III				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2020-DEC 2020	JAN 2021-JUNE 2021
MATH-H-CC-T-05	Theory of Real Functions & Introduction to Metric Space	Unit 1	DA	--
		Unit 2	CB	--
		Unit 3	CB	--
		Unit 4	DA	--
MATH-H-CC-T-06	Group Theory 1	Unit 1	SJS	--
		Unit 2	SJS	--
		Unit 3	AKM	--
		Unit 4	SJS	--
		Unit 5	AKM	--
MATH-H-CC-T-07	Numerical Methods	Unit 1	SS	--
		Unit 2	AKM	--
		Unit 3	SS	--
		Unit 4	DA	--

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DEPARTMENT OF MATHEMATICS

	Numerical Methods Lab	Unit 5	DA	--
		Unit 6	AKM	--
			DA+SS+AKM	
MATH-H-SEC- T-1	Logic and Sets	Unit 1	SS	--
		Unit 2	SS	--
		Unit 3	SS	--
MATH-H-GE- T-03	Differential Calculus		SJS+SS	--
MATH-G-CC- T-03	Real Analysis		CB	--
MATH-G-SEC- T-1	Logic and Sets	Unit 1	DA	--
		Unit 2	DA	--
		Unit 3	DA	--
SEMESTER-IV				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2020-DEC 2020	JAN 2021-JUNE 2021
MATH-H-CC- T-08	Riemann Integration and Series of Functions	Unit 1	--	DA
		Unit 2	--	DA
		Unit 3	--	AKM
		Unit 4	--	AKM
		Unit 5	--	DA
MATH-H-CC- T-09	Multivariate Calculus	Unit 1	--	SJS
		Unit 2	--	SJS
		Unit 3	--	SJS
		Unit 4	--	SJS
MATH-H-CC- T-10	Ring Theory and Linear Algebra I	Unit 1	--	CB
MATH-H-SEC- T-2	Graph Theory	Unit 1	--	SS
		Unit 2	--	SS
		Unit 3	--	SS
MATH-H-GE- T-04	Differential Equations		--	SS
MATH-G-CC- T-04	Algebra		--	SS
MATH-G-SEC- T-2	Graph Theory	Unit 1	--	DA
		Unit 2	--	DA
		Unit 3	--	DA
SEMESTER-V				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2020-DEC 2020	JAN 2021-JUNE 2021
MATH-H-CC- T-11	Partial Differential Equations & Applications	Unit 1	AKM	--
		Unit 2	AKM	--
		Unit 3	AKM	--

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DEPARTMENT OF MATHEMATICS

MATH-H-CC-T-12	Group Theory II	Unit 1	CB	--
		Unit 2	CB	--
		Unit 3	CC	--
MATH-H-DSE-T-1	Linear Programming	Unit 1	DA	--
		Unit 2	SJS	--
		Unit 3	DA	--
MATH-H-DSE-T-2	Probability and Statistics	Unit 1	SS	--
		Unit 2	SS	--
		Unit 3	SS	--
		Unit 4	SS	--
MATH-G-DSE-T-1	Matrices and Linear Algebra		CB	--
MATH-G-SEC-T-3	Vector Calculus		AKM	--
SEMESTER-VI				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2020-DEC 2020	JAN 2021-JUNE 2021
MATH-H-CC-T-13	Metric Spaces and Complex Analysis	Unit 1	--	CB
		Unit 2	--	CB
		Unit 3	--	CB
		Unit 4	--	CB
MATH-H-CC-T-14	Ring Theory and Linear Algebra II	Unit 1	--	SJS
		Unit 2	--	SJS
		Unit 3	--	SJS
MATH-H-DSE-T-3	Number Theory	Unit 1	--	DA
		Unit 2	--	SS
		Unit 3	--	DA
MATH-H-DSE-T-4	Mechanics	Unit 1	--	AKM
		Unit 2	--	AKM
		Unit 3	--	AKM
		Unit 4	--	AKM
MATH-G-DSE-T-2	Linear Programming		--	DA
MATH-G-SEC-T-4	Probability and Statistics		--	SS

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DEPARTMENT OF MATHEMATICS

SEMESTER-I				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2019-DEC 2019	JAN 2020-JUNE 2020
MATH-H-CC-T-01	Calculus, Geometry & Differential Equations	Unit 1	SJS	--
		Unit 2	SS	--
		Unit 3	AKM	--
		Unit 4	SS+SJS	--
MATH-H-CC-T-02	Algebra	Unit 1	CB	--
		Unit 2	SD	--
		Unit 3	DA	--
		Unit 4	CB+SD	--
MATH-H-GE-T-01	Differential Calculus		AKM+DA+SS+SJS	--
MATH-G-CC-T-01	Differential Calculus		SJS+DA+SD	--
SEMESTER-II				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2019-DEC 2019	JAN 2020-JUNE 2020
MATH-H-CC-T-03	Real Analysis	Unit 1	--	CB
		Unit 2	--	SJS+DA
		Unit 3	--	AKM+SS
MATH-H-CC-T-04	Differential Equations and Vector Calculus	Unit 1	--	DA
		Unit 2	--	SJS
		Unit 3	--	AKM
		Unit 4	--	SS
MATH-H-GE-T-02	Differential Equations		--	DA+AKM+CB+SJS
MATH-G-CC-T-02	Differential Equations		--	SJS+SS+CB+AKM
SEMESTER-III				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2019-DEC 2019	JAN 2020-JUNE 2020
MATH-H-CC-T-05	Theory of Real Functions & Introduction to Metric Space	Unit 1	CB	--
		Unit 2	CB	--
		Unit 3	DA	--
		Unit 4	DA	--
MATH-H-CC-T-06	Group Theory 1	Unit 1	SS	--
		Unit 2	SS	--
		Unit 3	SS	--
		Unit 4	AKM	--
		Unit 5	AKM	--
MATH-H-CC-T-07	Numerical Methods	Unit 1	SS	--
		Unit 2	CB	--
		Unit 3	SS	--
		Unit 4	DA	--

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DEPARTMENT OF MATHEMATICS

	Numerical Methods Lab	Unit 5	DA	--
		Unit 6	CB	--
			DA+SS+CB	--
MATH-H-SEC-T-1	Logic and Sets	Unit 1	SS	--
		Unit 2	SS	--
		Unit 3	AKM	--
MATH-H-GE-T-03	Differential Calculus		CB+AKM	--
MATH-G-CC-T-03	Real Analysis		SD+SJS+CB	--
MATH-G-SEC-T-1	Logic and Sets	Unit 1	DA	--
		Unit 2	DA	--
		Unit 3	SJS	--
SEMESTER-IV				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2019-DEC 2019	JAN 2020-JUNE 2020
MATH-H-CC-T-08	Riemann Integration and Series of Functions	Unit 1	--	AKM
		Unit 2	--	CB
		Unit 3	--	DA
		Unit 4	--	AKM
		Unit 5	--	CB
MATH-H-CC-T-09	Multivariate Calculus	Unit 1	--	AKM
		Unit 2	--	DA
		Unit 3	--	SS
		Unit 4	--	AKM+DA
MATH-H-CC-T-10	Ring Theory and Linear Algebra I	Unit 1	--	DA+CB+AKM
MATH-H-SEC-T-2	Graph Theory	Unit 1	--	SJS
		Unit 2	--	SJS
		Unit 3	--	SJS
MATH-H-GE-T-04	Differential Equations		--	SS+CB+AKM+DA
MATH-G-CC-T-04	Algebra		--	SJS+SS+AKM
MATH-G-SEC-T-2	Graph Theory	Unit 1	--	SJS
		Unit 2	--	SJS
		Unit 3	--	SJS
PART-III				
Paper	Group	Course Title	Name of the Teacher	
			JULY 2019-DEC 2019	JAN 2020-JUNE 2020
Paper- V (H)	A	Analytical Statics (40)	AKM	--
	B	Dynamics of a Rigid Body (20)	--	DA

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DEPARTMENT OF MATHEMATICS

	C	Hydrostatics (40)	--	AKM
Paper- VI (H)	A	Analysis – III (40)	CB	--
	B	Calculus of Several Variables (25)	DA	--
	C	Differential Equations- II (15)	--	DA
	D	Metric Space (20)	SJS	
Paper- VII (H)	A	Vector Analysis (25)	--	CB
	B	Tensor Algebra (10)	--	SJS
	C	Complex Analysis (15)	--	CB
	D	Probability theory (35)	SS	SS
	E	Mathematical Statistics (15)	--	SS
Paper- VII (H)	A	Numerical Analysis (Theoretical) (30)	DA	--
	B	Fundamentals of Computer Science & Computer Programming (in C) (20)	SS	--
	C	Practical: Computer Programming & Numerical analysis (50)	CB+DA+SS	CB+DA+SS
Paper- IV (G)	A	Numerical Methods Fundamentals of Computer Science (25)	SD+CB	--
	A	Computer Programming (in Fortran) (15)	SS	--
	B	Statics (20)	AKM	---
	B	Dynamics of a Particle (40)	SJS	CB

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DEPARTMENT OF MATHEMATICS

SEMESTER-I				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2018-DEC 2018	JAN 2019-JUNE 2019
MATH-H-CC-T-01	Calculus, Geometry & Differential Equations	Unit 1	SS	--
		Unit 2	CB	--
		Unit 3	SD	--
		Unit 4	DA	--
MATH-H-CC-T-02	Algebra	Unit 1	CB	--
		Unit 2	AKP	--
		Unit 3	SS	--
		Unit 4	DA	--
MATH-H-GE-T-01	Differential Calculus		DA+SS	--
MATH-G-CC-T-01	Differential Calculus		SJS+SD+SS+AKP+DA	--
SEMESTER-II				
Course Code	Course Title	Unit	Name of the Teacher	
			JULY 2018-DEC 2018	JAN 2019-JUNE 2019
MATH-H-CC-T-03	Real Analysis	Unit 1	--	CB
		Unit 2	--	SD
		Unit 3	--	AKP+AKM
MATH-H-CC-T-04	Differential Equations and Vector Calculus	Unit 1	--	DA
		Unit 2	--	SJS
		Unit 3	--	SS+DA
		Unit 4	--	SS
MATH-H-GE-T-02	Differential Equations		--	SJS+SD+CB+AKP+DA
MATH-G-CC-T-02	Differential Equations		--	SJS+SS+CB+SD+AKP
PART-II				
Paper	Group	Course Title	Name of the Teacher	
			JULY 2018-DEC 2018	JAN 2019-JUNE 2019
Paper- III (H)	A	Classical Algebra – II (15)	--	SS
	B	Linear Algebra – II (15)	SS	--
	C	Abstract Algebra – II (20)	SJS	SJS
	D	Analysis – I (50)	CB	CB
Paper- IV (H)	A	Linear Programming & Game Theory (40)	DA	DA
	B	Dynamics of a Particle (50)	SD+AKM	SD+AKM
	C	Analysis – II (10)	AKP	AKP

Distribution of Syllabus into Modules

Session 2018-19

DEPARTMENT OF MATHEMATICS

Paper	Group	Course Title	Name of the Teacher	
			JULY 2018-DEC 2018	JAN 2019-JUNE 2019
Paper- II (G)	A	Classical Algebra (20)	SD	SD
	A	Abstract & Linear Algebra (30)	CB	CB
	B	Analytical Geometry (40)	AKM	AKM
	B	Vector Algebra (10)	--	AKP
Paper- III (G)	A	Linear Programming (40)	DA	CB
	A	Game Theory (10)	--	AKP
	B	Probability Theory (30)	SS	SS
	B	Mathematical Statistics (20)	AKP	--
PART-III				
Paper	Group	Course Title	Name of the Teacher	
			JULY 2018-DEC 2018	JAN 2019-JUNE 2019
Paper- V (H)	A	Analytical Statics (40)	DA	DA
	B	Dynamics of a Rigid Body (20)	--	AKM
	C	Hydrostatics (40)	AKP	AKP
Paper- VI (H)	A	Analysis – III (40)	CB	CB
	B	Calculus of Several Variables (25)	SJS	--
	C	Differential Equations- II (15)	DA	DA
	D	Metric Space (20)	SD	SD
Paper- VII (H)	A	Vector Analysis (25)	SS	SS
	B	Tensor Algebra (10)	--	SJS
	C	Complex Analysis (15)	CB	CB
	D	Probability theory (35)	SS	SS
	E	Mathematical Statistics (15)	SS	SS

Distribution of Syllabus into Modules

Session 2018-19

DEPARTMENT OF MATHEMATICS

Paper	Group	Course Title	Name of the Teacher	
			JULY 2018-DEC 2018	JAN 2019-JUNE 2019
Paper- VIII (H)	A	Numerical Analysis (Theoretical) (30)	SD	--
	B	Fundamentals of Computer Science & Computer Programming (in C) (20)	SS	SS
	C	Practical: Computer Programming & Numerical analysis (50)	CB+SS+DA	CB+SS+DA
Paper- IV (G)	A	Numerical Methods Fundamentals of Computer Science (25)	CB	CB
	A	Computer Programming (in Fortran) (15)	SJS	--
	B	Statics (20)	--	DA
	B	Dynamics of a Particle (40)	AKM	DA

Distribution of Syllabus into Modules
Session 2017-18
Department of Mathematics

Sl. No	Name of the Teachers	Year/ Semester	Subjects	marks	Total Marks	Sessions	
						July-December 2017	January-June 2018
1	Dr. Arun Kumar Mondal	Part-I	Analytical Geometry of three dimension	20	60	Analytical Geometry of three dimension(10)	Analytical Geometry of three dimension(10)
		Part-II	Analysis – I	10		Analysis – I(10)	Analysis – II(10)
			Analysis – II	10			
		Part-III	Analytical Statics	20		Analytical Statics(10)	Analytical Statics(10)
2	Dr. Debiprasad Acharya	Part-I	Differential Equations – I	40	220	Differential Equations – I(20)	Differential Equations – I(20)
		Part-II	Dynamics of a Particle	50		Dynamics of a Particle(25)	Dynamics of a Particle(25)
		Part-III	Dynamics of a Rigid Body	20		Numerical Analysis(30),Fundamentals of Computer Science & Computer Programming(20) Practical(10)	Dynamics of a Rigid Body(20)
			Differential Equations- II	15			Differential Equations- II(15)
			Metric Space	20			Metric Space(20)
			Mathematical Statistics	15			Mathematical Statistics(15)
			Numerical Analysis	30			
			Fundamentals of Computer Science & Computer Programming	20			
			Practical	10			
3	Dr. Samiran Senapati	Part-I	Differential Calculus	35	210	Vector algebra(10), Differential Calculus(15)	Differential Calculus(20)
			Vector algebra	10			
		Part-II	Linear Algebra – II	15		Linear Algebra – II(15)	Abstract Algebra – II(20)
			Abstract Algebra – II	20			
		Part-III	Analytical Statics	20		Analytical Statics(20), Probability theory(35)	Hydrostatics(40), Vector Analysis(25), Practical(10)
			Hydrostatics	40			
			Vector Analysis	25			
			Probability theory	35			
	Practical	10					

Distribution of Syllabus into Modules
Session 2017-18
Department of Mathematics

Sl. No	Name of the Teachers	Year/ Semester	Subjects	marks	Total Marks	Sessions	
						July-December 2017	January-June 2018
4	Dr. Chinmay Biswas	Part-I	Classical Algebra – I	15	210	Classical Algebra – I(15), Linear Algebra – I(15)	Integral Calculus(25), Analytical Geometry of three dimension(10)
			Linear Algebra – I	15			
			Integral Calculus	25			
			Analytical Geometry of three dimension	10			
		Part-II	Analysis – I	40		Analysis – I (20)	Analysis – I (20)
		Part-III	Analysis – III	40		Analysis – III(40), Calculus of Several Variables(15)	Calculus of Several Variables(10), Complex Analysis(15) Tensor Algebra(10), Practical(15)
			Calculus of Several Variables	25			
			Complex Analysis	15			
			Tensor Algebra	10			
		Practical	15				
5	Smt. Shilpa Das	Part-I	Analytical Geometry of two dimension	10	85	Analytical Geometry of two dimension(10)	Abstract Algebra – I(20)
			Abstract Algebra – I	20			
		Part-II	Classical Algebra – II	15		Classical Algebra – II(15), Linear Programming(15)	Linear Programming & Game Theory(25)
			Linear Programming & Game Theory	40			

MODULARISATION OF SYLLABUS
(2021- 2022)
DEPARTMENT OF PHILOSOPHY
NABADWIP VIDYASAGAR COLLEGE
(UNIVERSITY OF KALYANI)
SEMESTER –I

PHIL-H-CC-T-01 Outline of Indian Philosophy – 1			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Distinctive Features of Indian Philosophy	03 Credits	DEBOMITA CHOUDHURY
Section 'A' Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Section 'B' Unit: I	Cārvāka School: It's epistemology	03 Credits	SUBHAM DAS
Section 'B' Unit: II	Metaphysics and Ethics.	03 Credits	SUBHAM DAS
Section 'C' Unit: I	Jainism: Concepts of sat, dravya, guṇa, paryāya, jīva, and ajīva.	05 Credits	KISHOR PAUL
Section 'C' Unit: II	Anekāntavāda, syādvāda and saptabhangīnaya.	05 Credits	KISHOR PAUL
Section 'D' Unit: I	Four Noble Truths, pratīyasamutpāda, kṣaṇabhangavāda, nairātmyavāda .	07 Credits	BAISAKHI BURMAN
Section 'D' Unit: II	Schools of Buddhism: Vaibhāṣika, Sautrāntika, Jogācara ,Mādhyamika.	07 Credits	BAISAKHI BURMAN
Section 'E' Unit: I	Nyāya Epistemology: Four pramāṇa-s: Perception, Inference, Comparison and Testimony; Theory of Error; Nature of Cause, Classification of Causes: samavāyi , asamavāyi , nimitta , asatkāryavāda , the Idea of God and proofs for His Existence.	10 Credits	SHAMPA DAS
Section 'E' Unit: II	Vaiśeṣika Metaphysics, paramāṇuvāda, Seven Categories	10 Credits	SHAMPA DAS

PHIL-H-CC-T-02
Outline of Western Philosophy – 1

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Features of Ancient, Medieval and Modern Periods	04 Credits	DEBOMITA CHOUDHURY
Section 'B' Unit: I	Theory of Knowledge.	05 Credits	SUBHAM DAS
Section 'B' Unit: II	Theory of Ideas or form.	05 Credits	SUBHAM DAS
Section 'C' Unit: I	Refutation of Plato's Theory of Ideas.	03 Credits	DEBOMITA CHOUDHURY
Section 'C' Unit: II	Theory of Causation, Form and Matter.	05 Credits	DEBOMITA CHOUDHURY
Section 'D' Unit: I	Method of Descartes, Cogito Ergo Sum, Types of Ideas, Criterion of Truth, substance	06 Credits	BAISAKHI BURMAN
Section 'D' Unit: II	Proofs for the existence of God, Mind and Body Relation.	06 Credits	BAISAKHI BURMAN
Section 'E' Unit: I	The Doctrine of Substance, Attributes and Modes, The Concept of God or Nature , Pantheism,	05 Credits	KISHOR PAUL
Section 'E' Unit: II	Mind - Body Relation. Degrees of Knowledge, Intellectual Love of God	05 Credits	KISHOR PAUL
Section 'F' Unit: I	Doctrine of Monads and Pre-established Harmony, God: Nature and Proofs for His existence.	06 Credits	SHAMPA DAS
Section 'F' Unit: II	Truths of Reason and Truths of Fact, Theory of Knowledge: Principles of Non-contradiction, Sufficient Reason and the Identity of Indiscernible.	06 Credits	SHAMPA DAS

PHIL-G-GE-T-01
Indian Philosophy

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUDHURY
Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	SUBHAM DAS
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratītyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	KISHOR PAUL

PHIL-G-CC-T-01
Indian Philosophy

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUDHURY
Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	SUBHAM DAS
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratītyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	KISHOR PAUL

SEMESTER –III

PHIL-H-CC-T-05 Indian Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	1. Introduction: presuppositions and determination , theory of karma; niṣkāma karma	08 Credits	DEBOMITA CHOUDHURY
Section 'B'	2. dharma: It's meaning and definition; vedic concepts of svadharma, sādharmaṇa dharma, āśrama dharma, viśeṣa dharma; varṇa dharma.	16 Credits	DEBOMITA CHOUDHURY
Section 'C'	3. puruṣārtha and their interrelation.	08 Credits	DEBOMITA CHOUDHURY
Section 'D'	4. Buddhist Ethics: pañcaśīla and brahmavihārabhāvanā.	08 Credits	SHAMPA DAS
Section 'E'	5. Jaina Ethics: triratna, anuvrata and mahāvratā.	08 Credits	SHAMPA DAS
Section 'F'	6. Joga Ethics : ahimsā ,yama, niyama	08 Credits	SHAMPA DAS

PHIL-H-CC-T-06 Western Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Nature and scope of ethics or moral philosophy.	10 Credits	SUBHAM DAS
	Non-moral action, object of moral philosophymotive or intention.		BAISAKHI BURMAN
Section 'B'	Teleological Ethics : Egoism , Hedonism ,	12 Credits	KISHOR PAUL
	Utilitarianism (Utilitarianism : Act-Utilitarianism ; General Utilitarianism ; Rule Utilitarianism)		BAISAKHI BURMAN
Section 'C'	Deontological Ethics: Kant	12 Credits	SHAMPA DAS
Section 'D'	Practical Ethics: Killing, Euthanasia, Suicide.	12 Credits	BAISAKHI BURMAN

	Theories of punishment.		SUBHAM DAS
Section 'E'	Virtue ethics : Aristotle	10 Credits	KISHOR PAUL

PHIL-H-CC-T-07 Indian Logic			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
	Tarkasamgraha with Dīpikā – Annambhatta. Sarvavyavahara heturgunah buddhirjnanam to Nigrahasthanantaramiti nabina. (Upto Hetvabhāsa)	56 Credits	BAISAKHI BURMAN SHAMPA DAS KISHOR PAUL

PHIL-H-SEC-T-01 Logical Rules and Fallacies (Indian)			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Definition and classification of anumāna (a) The Nyāya model (chala, jāti, nigrahasthāna, vāda, jalpa, vitaṇḍā) (b) The Buddhist model (prasaga)	12 Credits	KISHOR PAUL
Unit: II	Aid to Anumāna: (a) tarka (b) avayava (c) drṣṭānta (d) siddhānta	8 Credits	KISHOR PAUL
Unit: III	Nature of Hetu and Hetvābhāsa	18 Credits	KISHOR PAUL

PHIL-G-GE-T-03 Indian Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUHDURY

Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	SUBHAM DAS
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratīyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	KISHOR PAUL

<p style="text-align: center;">PHIL-G-CC-T-03 HISTORY OF WESTERN PHILOSOPHY</p>			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	A. Plato: Knowledge and Opinion	06 Credits	SUBHAM DAS
	B. Descartes: Cogito Ergo Sum, Mind -Body Dualism and its critique by Ryle.	06 Credits	BAISAKHI BURMAN
Unit: II	A. Spinoza: Concepts of Substance	05 Credits	KISHOR PAUL
	B. Leibnitz: Theory of Monads	07 Credits	KISHOR PAUL
	C. Locke: Refutation of innate ideas, The origin and formation of ideas, Simple and Complex ideas.	07 Credits	BAISAKHI BURMAN
Unit: III	A. Berkeley: Critique of Locke's theory of Material substance	05 Credits	SHAMPA DAS

	B. Hume: Theory of Causation	06 Credits	DEBOMITA CHOUDHURY
Unit: IV	Kant: Classification of Propositions, Possibility of synthetic a priori.	12 Credits	SHAMPA DAS

PHIL-G-SEC-T-01 Logical Rules and Fallacies (Indian)			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Definition and classification of anumāna (a) The Nyāya model (chala, jāti, nigrahasthāna, vāda, jalpa, vitaṇḍā) (b) The Buddhist model (prasaga)	12 Credits	KISHOR PAUL
Unit: II	Aid to Anumāna: (a) tarka (b) avayava (c) dṛṣṭānta (d) siddhānta	08 Credits	KISHOR PAUL
Unit: III	Nature of Hetu and Hetvābhāsa	18 Credits	KISHOR PAUL

SEMESTER-V

PHIL-H-CC-T-11 Social and Political Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Nature and Scope of Social Philosophy and Political Philosophy	04 Credits	BAISAKHI BURMAN
Section 'B' Basics Concepts	Society, Social group, Community, Association, State, Nation, Institution, Custom	10 Credits	BAISAKHI BURMAN
Section 'C' Theories about the relations between individual and society	Individualistic Theory, Organic Theory, Idealistic Theory	10 Credits	BAISAKHI BURMAN
Section 'D' Political Ideology	Democracy and its different forms. Socialism: Utopia and Scientific	12 Credits	SHAMPA DAS
Section 'E' Social Change	Marx and Ambedkar	10 Credits	SHAMPA DAS
Section 'F' Concepts of Gandhi	swarāj , satyāgraha , sarvodaya	10 Credits	SHAMPA DAS

PHIL-H-CC-T-12 Western Logic – II			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Introduction to Logic – P. Suppes Chapter – 9 & 10	28 Credits	SUBHAM DAS
Section 'B'	H.W.B. Joseph : An Introduction to Logic Chapter-II & IV (Terms and their principle distinctions , The predicables)	28 Credits	KISHOR PAUL

	H.W.B. Joseph : An Introduction to Logic Chapter- V (The Rules of Definition and Division : Classification and Dichotomy)		
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PHIL-H-DSE-T-01 Vedāntasāra			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Vedāntasāra (Text) (Upto vikepa śakti)	56 Credits	KISHOR PAUL

PHIL-H-DSE-T-2 An Enquiry Concerning Human Understanding			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	An Enquiry Concerning Human Understanding (Text) (Chapter 1 to 12)	56 Credits	DEBOMITA CHOUDHURY

PHIL-G-GE-T-1 Applied Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	An Introduction to Moral Philosophy and Applied Ethics.	10 Credits	BAISAKHI BURMAN
Unit – II	Value of Human Life: 1. Human Rights 2. Punishment	10 Credits	KISHOR PAUL
Unit – III	Environmental Ethics: 1. Nature as Means and End. 2. Respect for animal ecology.	10 Credits	BAISAKHI BURMAN

Unit – IV	Professional Ethics and Public Policy: Medical Ethics – Surrogacy, Doctor – patient relation, Euthanasia.	10 Credits	BAISAKHI BURMAN
Unit – V	Discrimination: Gender, class and caste	10 Credits	BAISAKHI BURMAN

PHIL-G-DSE-T-1A Philosophy of Religion			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	Philosophy of Religion : Nature and Concern	10 Credits	SUBHAM DAS
Unit – II	Arguments for and against the Existence of God (Indian and Western)	14 Credits	SHAMPA DAS
Unit – III	Reason and Faith : Jñāna and Bhakti	10 Credits	SUBHAM DAS
Unit – IV	Religious Pluralism	12 Credits	SUBHAM DAS

PHIL-G-SEC-T-03 Philosophy in Practice			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	1. Common and Differentiating Characteristics of Philosophy and darśana 2. Nature of Inquiry in Philosophy and darśana	10 Credits	SHAMPA DAS
Unit – II	3. Outlines of the types of Inquiry in Philosophy and darśana: (a) Epistemic Inquiry in Philosophy and darśana, (b) Metaphysical Inquiry in Philosophy and darśana, (c) Axiological Inquiry in Philosophy and darśana	10 Credits	DEBOMITA CHOU DHURY
Unit – III	4. A few Model World-views and corresponding paths leading to Perfection Plato's view, Gītā, Ten Commandments	18 Credits	BAISAKHI BURMAN

MODULARISATION OF SYLLABUS
(2021- 2022)
DEPARTMENT OF PHILOSOPHY
NABADWIP VIDYASAGAR COLLEGE
(UNIVERSITY OF KALYANI)
SEMESTER –II

PHIL-H-CC-T-03 Outline of Indian Philosophy – 2			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Sāmkhya Duality : prakṛti and it's constituents , proofs for the existence of prakṛti, satkaryavād1	05 Credits	BAISAKHI BURMAN
Section 'A' Unit: II	puruṣa : It's nature and arguments for it's existence. Plurality of puruṣa	05 Credits	BAISAKHI BURMAN
Section 'B' Unit: I	citta, cittabhūmi, cittavṛtti	06 Credits	SUBHAM DAS
Section 'B' Unit: II	Eightfold path (astānga yoga) and īśvara.	06 Credits	SUBHAM DAS
Section 'C' Unit: I	vidhi, niṣedha. pramāṇa-s with special reference to arthāpatti and anupalabdhi,	06 Credits	SHAMPA DAS
Section 'C' Unit: II	Theories of error: akhyativāda (Prabhākara), anyathakhyativāda (Bhātta)	06 Credits	SHAMPA DAS
Section 'D' Unit: I	Nature of Brahman, Adhyāsa, vivartavāda,	06 Credits	DEBOMITA CHOUDHURY
Section 'D' Unit: II	māyā, three grades of sattā, jīva and jagat.	06 Credits	DEBOMITA CHOUDHURY

Section 'E' Unit: I	Distinction between advaitavāda and viśiṣṭādvaitavāda, , Ramanuja's Criticism of Saṃkara's Doctrine of māyā	05 Credits	KISHOR PAUL
Section 'E' Unit: II	Relation between jīva and jagat, Nature of Brahman .	05 Credits	KISHOR PAUL

PHIL-H-CC-T-04 Outline of Western Philosophy – 2			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Refutation of Innate Ideas , classification of Ideas ,Theory of Substance, Distinction between Primary and Secondary Qualities, Theory of Knowledge.	14 Credits	BAISAKHI BURMAN
Section 'B' Unit: I	Rejection of the Distinction between Primary and Secondary Qualities, Esse Est Percipi, The Problem of Solipcism.	08 Credits	KISHOR PAUL
Section 'B' Unit: II	Refutation of Abstract Ideas. Role of God.	06 Credits	KISHOR PAUL
Section 'C' Unit: I	Impressions and Ideas, Association of Ideas, Judgments Concerning Relations of Ideas, Judgments Concerning Matters of Fact.	07 Credits	DEBOMITA CHOUHURY
Section 'C' Unit: II	Theory of Causality, Theory of Self and Personal Identity, Humean Skepticism.	07 Credits	SUBHAM DAS
Section 'D' Unit: I	Conception of Critical Philosophy, Copernican Revolution in Philosophy,	07 Credits	SHAMPA DAS
Section 'D' Unit: II	Classification of Judgments: Analytic, Synthetic, a priori, a posteriori; Possibility of Synthetic a-priori Judgments.	07 Credits	SHAMPA DAS

PHIL-G-GE-T-02
Western Logic

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	SUBHAM DAS
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	SUBHAM DAS
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	SUBHAM DAS
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	KISHOR PAUL
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	KISHOR PAUL
Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOU DHURY

PHIL-G-CC-T-02
Western Logic

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	SUBHAM DAS
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	SUBHAM DAS
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	SUBHAM DAS
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	KISHOR PAUL
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	KISHOR PAUL
Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOU DHURY

SEMESTER –IV

PHIL-H-CC-T-08 Western Logic – 1			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Introduction to Logic	1.Sentence and Proposition; Distinction between deductive and inductive argument, Logical form	08 Credits	KISHOR PAUL
	2. Truth, Validity and Soundness		KISHOR PAUL
	3. Laws of Thought		KISHOR PAUL
Section 'B' Deduction	1. Aristotelian Classification of Categorical Proposition; Square of Opposition and the question of existential input; Conversion, obversion, contra position, inversion.	36 Credits	KISHOR PAUL
	2. Categorical Syllogism: figures and moods; rules of validity; fallacies		KISHOR PAUL
	3. Boolean interpretation of propositions; Venn diagram technique for testing the validity of syllogisms		SHAMPA DAS
	4. Truth function: negation, conjunction, disjunction, implication, equivalence		KISHOR PAUL
	5. Arguments and argument forms; decision procedures: truth tables; reductio ad absurdum		KISHOR PAUL
	6. Techniques of symbolization; proof construction: Formal Proof of Validity and Invalidity		SHAMPA DAS
	7. Quantification theory: singular and single – general propositions; rules of quantification, proving validity and invalidity of quantification theory.		SHAMPA DAS
Section C Induction	1. Analogy	12 Credits	DEBOMITA CHOUDHURY
	2. Mills method of experimental enquiry		DEBOMITA CHOUDHURY
	3. Scientific hypothesis		DEBOMITA CHOUDHURY
	4. Elementary probability calculus		DEBOMITA CHOUDHURY

PHIL-H-CC-T-09 Psychology			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Psychology	Nature and Scope of Psychology	04 Credits	DEBOMITA CHOUDHURY
Section 'B' Methods of Psychology	Introspection , Extrospection , Experimental and observation.	14 Credits	DEBOMITA CHOUDHURY
Section 'C' Psychological Process	Sensation, Perception, Web-Fechner Law Classical approach, Gestalt approach, Wertheimer Koffka & Kohler. Memory, Attention, Personality, Learning: Thorndike's connectionism, Pavlov's classical conditioning, Gestalt Theory, I.Q	20 Credits	BAISAKHI BURMAN
Section 'D' Consciousness	Levels of Mind: Conscious, Sub-Conscious, Unconscious.	09 Credits	BAISAKHI BURMAN
	Proofs for the existence of unconsciousness; Freud's theory of dream.	09 Credits	BAISAKHI BURMAN

PHIL-H-CC-T-10 Philosophy of Religion			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Nature and Scope of Philosophy of Religion	04 Credits	SUBHAM DAS
Section 'B'	Religion: Origin and Development of Religion, Atheism, Deism, Theism, Pantheism, Religion without God, Monotheism, Polytheism, Henotheism	20 Credit	SUBHAM DAS
Section 'C'	Hinduism, Christianity, Islam, Buddhism: Basic Tenets.	10 Credits	SUBHAM DAS
Section 'D'	Argument for the Existence of God: Ontological, Cosmological, and Teleological	12 Credits	SUBHAM DAS
Section 'E'	Arguments against the Existence of god	10 Credits	SUBHAM DAS

PHIL-H-SEC-T-02 Logical Rules and Fallacies (Western)			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	R.Jeffry: Formal Logic (1st Edition) It's scope and Limits, Chapter-4	19 Credits	KISHOR PAUL
Section 'B'	P. Suppes : Introduction to Logic (Indian edition) Chapter-9 , Section – 9.1 to 9.8	19 Credits	SUBHAM DAS

PHIL-G-GE-T-04 Western Logic			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	SUBHAM DAS
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	SUBHAM DAS
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	SUBHAM DAS
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	KISHOR PAUL
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	KISHOR PAUL

Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOUDHURY

<p style="text-align: center;">PHIL-G-CC-T-04 Social and Political Philosophy</p>			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Nature and scope of social and political philosophy, Their relation to Sociology, Social philosophy, Politics and Ethics	12 Credits	DEBOMITA CHOUDHURY
Unit: II	Individual, Society, Community.	10 Credits	DEBOMITA CHOUDHURY
Unit: III	Social Institutions: Association, Institution, Family, Marriage, Education and Religion	12 Credits	DEBOMITA CHOUDHURY
Unit: IV	Political Ideologies: Democracy, Socialism, sarvodaya.	12 Credits	BAISAKHI BURMAN
Unit: V	Methods of Political Action: Terrorism, satyagraha	10 Credits	SHAMPA DAS

<p style="text-align: center;">PHIL-G-SEC-T-02 Logical Rules and Fallacies (Western)</p>			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	R.Jeffry: Formal Logic (1st Edition) It's scope and Limits, Chapter-4	19 Credits	KISHOR PAUL
Section 'B'	P. Suppes : Introduction to Logic (Indian edition) Chapter-9 , Section – 9.1 to 9.8	19 Credits	SUBHAM DAS

SEMESTER –VI

PHIL-H-CC-T-13 Western Epistemology			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	An Introduction to Philosophical Analysis – John Hospers. Chapter I, II,III &IV	56 Credits	SHAMPA DAS

PHIL-H-CC-T-14 Western Metaphysics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	An Introduction to Philosophical Analysis – John Hospers. Chapter V,VI & VIII	56 Credits	DEBOMITA CHOUDHURY

PHIL-H-DSE-T-03 Practical Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit-I	An Introduction to Moral Philosophy and Applied Ethics.	10 Credits	KISHOR PAUL
Unit-II	Value of Human Life: Rights, Duties & Justice.	12 Credits	BAISAKHI BURMAN
Unit-III	a) Nature as Means & Ends b) Respect for Animal Ecology	10 Credits	KISHOR PAUL
Unit-IV	Medical Ethics: Surrogacy, Doctor-Patient Relation, Abortion	12 Credits	BAISAKHI BURMAN
Unit-V	Discrimination: Gender, Caste & Class	12 Credits	BAISAKHI BURMAN

PHIL-H-DSE-T-04 Contemporary Indian Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Topic 1	Rabindranath Tagore- Surplus in Man, Education	56 Credits	SUBHAM DAS
Topic 2	M.N. Roy – Radical Humanism		SUBHAM DAS
Topic 3	Aurobindo- Evolution, Involution		SUBHAM DAS
Topic 4	Vivekananda- Universal Religion, Practical Vedanta		KISHOR PAUL

PHIL-G-GE -T02 INDUCTIVE LOGIC			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	Introduction to Inductive Logic 1. Subject matter of Inductive Logic 2. Inductive Procedure and stages of Inductive procedure 3. Problem of Induction	10 Credits	SUBHAM DAS
Unit – II	Kinds of Induction 1. Scientific Induction 2. Unscientific Induction 3. Analogy	10 Credits	BAISAKHI BURMAN
Unit – III	Postulates of Induction: 1. Law of Uniformity of Nature 2. Law of Universal Causation	10 Credits	KISHOR PAUL
Unit – IV	Hypothesis 1. Definition of Hypothesis with Examples. 2. Kinds of Hypothesis 3. Conditions of a legitimate Hypothesis 4. Verification of a Hypothesis	12 Credits	SHAMPA DAS
Unit – V	Mills method of experimental enquiry	14 Credits	DEBOMITA CHOUDHURY

PHIL-G-DSE-T-1B			
Contemporary Indian Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Topic 1	Rabindranath Tagore- Surplus in Man, Education	56 Credits	SUBHAM DAS
Topic 2	M.N. Roy – Radical Humanism		SUBHAM DAS
Topic 3	Aurobindo- Evolution, Involution		SUBHAM DAS
Topic 4	Vivekananda- Universal Religion, Practical Vedanta		KISHOR PAUL

PHIL-G-SEC-T-04			
YOGA PHILOSOPHY			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	The Definition and Essence of Yoga	10 Credits	SUBHAM DAS
Unit – II	Yoga in Jainism, Yoga in Buddhism (vipassanā) and Yoga in Bhagvadgītā	18 Credits	KISHOR PAUL
Unit – III	Patanjali's Astāngika Yoga Mārga	10 Credits	DEBOMITA CHOUDHURY

MODULARISATION OF SYLLABUS
(2020- 2021)
DEPARTMENT OF PHILOSOPHY
NABADWIP VIDYASAGAR COLLEGE
(UNIVERSITY OF KALYANI)
SEMESTER –I

PHIL-H-CC-T-01 Outline of Indian Philosophy – 1			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Distinctive Features of Indian Philosophy	03 Credits	DEBOMITA CHOUDHURY
Section 'A' Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Section 'B' Unit: I	Cārvāka School: It's epistemology	03 Credits	SUBHAM DAS
Section 'B' Unit: II	Metaphysics and Ethics.	03 Credits	SUBHAM DAS
Section 'C' Unit: I	Jainism: Concepts of sat, dravya, guṇa, paryāya, jīva, and ajīva.	05 Credits	KISHOR PAUL
Section 'C' Unit: II	Anekāntavāda, syādvāda and saptabhangīnaya.	05 Credits	KISHOR PAUL
Section 'D' Unit: I	Four Noble Truths, pratītyasamutpāda, kṣaṇabhangavāda, nairātmyavāda .	07 Credits	BAISAKHI BURMAN
Section 'D' Unit: II	Schools of Buddhism: Vaibhāṣika, Sautrāntika, Jogācara ,Mādhyamika.	07 Credits	BAISAKHI BURMAN
Section 'E' Unit: I	Nyāya Epistemology: Four pramāṇa-s: Perception, Inference, Comparison and Testimony; Theory of Error; Nature of Cause, Classification of Causes: samavāyi , asamavāyi , nimitta , asatkāryavāda , the Idea of God and proofs for His Existence.	10 Credits	SHAMPA DAS
Section 'E' Unit: II	Vaiśeṣika Metaphysics, paramāṇuvāda, Seven Categories	10 Credits	SHAMPA DAS

PHIL-H-CC-T-02
Outline of Western Philosophy – 1

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Features of Ancient, Medieval and Modern Periods	04 Credits	DEBOMITA CHOUDHURY
Section 'B' Unit: I	Theory of Knowledge.	05 Credits	SUBHAM DAS
Section 'B' Unit: II	Theory of Ideas or form.	05 Credits	SUBHAM DAS
Section 'C' Unit: I	Refutation of Plato's Theory of Ideas.	03 Credits	DEBOMITA CHOUDHURY
Section 'C' Unit: II	Theory of Causation, Form and Matter.	05 Credits	DEBOMITA CHOUDHURY
Section 'D' Unit: I	Method of Descartes, Cogito Ergo Sum, Types of Ideas, Criterion of Truth, substance	06 Credits	BAISAKHI BURMAN
Section 'D' Unit: II	Proofs for the existence of God, Mind and Body Relation.	06 Credits	BAISAKHI BURMAN
Section 'E' Unit: I	The Doctrine of Substance, Attributes and Modes, The Concept of God or Nature , Pantheism,	05 Credits	KISHOR PAUL
Section 'E' Unit: II	Mind - Body Relation. Degrees of Knowledge, Intellectual Love of God	05 Credits	KISHOR PAUL
Section 'F' Unit: I	Doctrine of Monads and Pre-established Harmony, God: Nature and Proofs for His existence.	06 Credits	SHAMPA DAS
Section 'F' Unit: II	Truths of Reason and Truths of Fact, Theory of Knowledge: Principles of Non-contradiction, Sufficient Reason and the Identity of Indiscernible.	06 Credits	SHAMPA DAS

PHIL-G-GE-T-01
Indian Philosophy

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUDHURY
Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	SUBHAM DAS
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratītyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	KISHOR PAUL

PHIL-G-CC-T-01
Indian Philosophy

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUDHURY
Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	SUBHAM DAS
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratītyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	KISHOR PAUL

SEMESTER –III

PHIL-H-CC-T-05 Indian Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	1. Introduction: presuppositions and determination , theory of karma; niṣkāma karma	08 Credits	DEBOMITA CHOUDHURY
Section 'B'	2. dharma: It's meaning and definition; vedic concepts of svadharma, sādharmaṇa dharma, āśrama dharma, viśeṣa dharma; varṇa dharma.	16 Credits	DEBOMITA CHOUDHURY
Section 'C'	3. puruṣārtha and their interrelation.	08 Credits	DEBOMITA CHOUDHURY
Section 'D'	4. Buddhist Ethics: pañcaśīla and brahmavihārabhāvanā.	08 Credits	SHAMPA DAS
Section 'E'	5. Jaina Ethics: triratna, anuvrata and mahāvratā.	08 Credits	SHAMPA DAS
Section 'F'	6. Joga Ethics : ahimsā ,yama, niyama	08 Credits	SHAMPA DAS

PHIL-H-CC-T-06 Western Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Nature and scope of ethics or moral philosophy.	10 Credits	SUBHAM DAS
	Non-moral action, object of moral philosophymotive or intention.		BAISAKHI BURMAN
Section 'B'	Teleological Ethics : Egoism , Hedonism ,	12 Credits	KISHOR PAUL
	Utilitarianism (Utilitarianism : Act-Utilitarianism ; General Utilitarianism ; Rule Utilitarianism)		BAISAKHI BURMAN
Section 'C'	Deontological Ethics: Kant	12 Credits	SHAMPA DAS
Section 'D'	Practical Ethics: Killing, Euthanasia, Suicide.	12 Credits	BAISAKHI BURMAN

	Theories of punishment.		SUBHAM DAS
Section 'E'	Virtue ethics : Aristotle	10 Credits	KISHOR PAUL

PHIL-H-CC-T-07 Indian Logic			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
	Tarkasamgraha with Dīpikā – Annambhatta. Sarvavyavahara heturgunah buddhirjnanam to Nigrahasthanantaramiti nabina. (Upto Hetvabhāsa)	56 Credits	BAISAKHI BURMAN SHAMPA DAS KISHOR PAUL

PHIL-H-SEC-T-01 Logical Rules and Fallacies (Indian)			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Definition and classification of anumāna (a) The Nyāya model (chala, jāti, nigrahasthāna, vāda, jalpa, vitaṇḍā) (b) The Buddhist model (prasaga)	12 Credits	KISHOR PAUL
Unit: II	Aid to Anumāna: (a) tarka (b) avayava (c) drṣṭānta (d) siddhānta	8 Credits	KISHOR PAUL
Unit: III	Nature of Hetu and Hetvābhāsa	18 Credits	KISHOR PAUL

PHIL-G-GE-T-03 Indian Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUHDURY

Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	SUBHAM DAS
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratīyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	KISHOR PAUL

PHIL-G-CC-T-03 HISTORY OF WESTERN PHILOSOPHY			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	A. Plato: Knowledge and Opinion	06 Credits	SUBHAM DAS
	B. Descartes: Cogito Ergo Sum, Mind -Body Dualism and its critique by Ryle.	06 Credits	BAISAKHI BURMAN
Unit: II	A. Spinoza: Concepts of Substance	05 Credits	KISHOR PAUL
	B. Leibnitz: Theory of Monads	07 Credits	KISHOR PAUL
	C. Locke: Refutation of innate ideas, The origin and formation of ideas, Simple and Complex ideas.	07 Credits	BAISAKHI BURMAN
Unit: III	A. Berkeley: Critique of Locke's theory of Material substance	05 Credits	SHAMPA DAS

	B. Hume: Theory of Causation	06 Credits	DEBOMITA CHOUDHURY
Unit: IV	Kant: Classification of Propositions, Possibility of synthetic a priori.	12 Credits	SHAMPA DAS

PHIL-G-SEC-T-01 Logical Rules and Fallacies (Indian)			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Definition and classification of anumāna (a) The Nyāya model (chala, jāti, nigrasthāna, vāda, jalpa, vitaṇḍā) (b) The Buddhist model (prasaga)	12 Credits	KISHOR PAUL
Unit: II	Aid to Anumāna: (a) tarka (b) avayava (c) dṛṣṭānta (d) siddhānta	08 Credits	KISHOR PAUL
Unit: III	Nature of Hetu and Hetvābhāsa	18 Credits	KISHOR PAUL

SEMESTER-V

PHIL-H-CC-T-11 Social and Political Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Nature and Scope of Social Philosophy and Political Philosophy	04 Credits	BAISAKHI BURMAN
Section 'B' Basics Concepts	Society, Social group, Community, Association, State, Nation, Institution, Custom	10 Credits	BAISAKHI BURMAN
Section 'C' Theories about the relations between individual and society	Individualistic Theory, Organic Theory, Idealistic Theory	10 Credits	BAISAKHI BURMAN
Section 'D' Political Ideology	Democracy and its different forms. Socialism: Utopia and Scientific	12 Credits	SHAMPA DAS
Section 'E' Social Change	Marx and Ambedkar	10 Credits	SHAMPA DAS
Section 'F' Concepts of Gandhi	swarāj , satyāgraha , sarvodaya	10 Credits	SHAMPA DAS

PHIL-H-CC-T-12 Western Logic – II			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Introduction to Logic – P. Suppes Chapter – 9 & 10	28 Credits	SUBHAM DAS
Section 'B'	H.W.B. Joseph : An Introduction to Logic Chapter-II & IV (Terms and their principle distinctions , The predicables)	28 Credits	KISHOR PAUL

	H.W.B. Joseph : An Introduction to Logic Chapter- V (The Rules of Definition and Division : Classification and Dichotomy)		
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PHIL-H-DSE-T-01 Vedāntasāra			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Vedāntasāra (Text) (Upto vikepa śakti)	56 Credits	KISHOR PAUL

PHIL-H-DSE-T-2 An Enquiry Concerning Human Understanding			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	An Enquiry Concerning Human Understanding (Text) (Chapter 1 to 12)	56 Credits	DEBOMITA CHOUDHURY

PHIL-G-GE-T-1 Applied Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	An Introduction to Moral Philosophy and Applied Ethics.	10 Credits	BAISAKHI BURMAN
Unit – II	Value of Human Life: 1. Human Rights 2. Punishment	10 Credits	KISHOR PAUL
Unit – III	Environmental Ethics: 1. Nature as Means and End. 2. Respect for animal ecology.	10 Credits	BAISAKHI BURMAN

Unit – IV	Professional Ethics and Public Policy: Medical Ethics – Surrogacy, Doctor – patient relation, Euthanasia.	10 Credits	BAISAKHI BURMAN
Unit – V	Discrimination: Gender, class and caste	10 Credits	BAISAKHI BURMAN

PHIL-G-DSE-T-1A Philosophy of Religion			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	Philosophy of Religion : Nature and Concern	10 Credits	SUBHAM DAS
Unit – II	Arguments for and against the Existence of God (Indian and Western)	14 Credits	SHAMPA DAS
Unit – III	Reason and Faith : Jñāna and Bhakti	10 Credits	SUBHAM DAS
Unit – IV	Religious Pluralism	12 Credits	SUBHAM DAS

PHIL-G-SEC-T-03 Philosophy in Practice			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	1. Common and Differentiating Characteristics of Philosophy and darśana 2. Nature of Inquiry in Philosophy and darśana	10 Credits	SHAMPA DAS
Unit – II	3. Outlines of the types of Inquiry in Philosophy and darśana: (a) Epistemic Inquiry in Philosophy and darśana, (b) Metaphysical Inquiry in Philosophy and darśana, (c) Axiological Inquiry in Philosophy and darśana	10 Credits	DEBOMITA CHOU DHURY
Unit – III	4. A few Model World-views and corresponding paths leading to Perfection Plato's view, Gītā, Ten Commandments	18 Credits	BAISAKHI BURMAN

MODULARISATION OF SYLLABUS
(2020- 2021)
DEPARTMENT OF PHILOSOPHY
NABADWIP VIDYASAGAR COLLEGE
(UNIVERSITY OF KALYANI)
SEMESTER –II

PHIL-H-CC-T-03 Outline of Indian Philosophy – 2			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Sāmkhya Duality : prakṛti and it's constituents , proofs for the existence of prakṛti, satkaryavād1	05 Credits	BAISAKHI BURMAN
Section 'A' Unit: II	puruṣa : It's nature and arguments for it's existence. Plurality of puruṣa	05 Credits	BAISAKHI BURMAN
Section 'B' Unit: I	citta, cittabhūmi, cittavṛtti	06 Credits	SUBHAM DAS
Section 'B' Unit: II	Eightfold path (astānga yoga) and īśvara.	06 Credits	SUBHAM DAS
Section 'C' Unit: I	vidhi, niṣedha. pramāṇa-s with special reference to arthāpatti and anupalabdhi,	06 Credits	SHAMPA DAS
Section 'C' Unit: II	Theories of error: akhyativāda (Prabhākara), anyathakhyativāda (Bhāṭṭa)	06 Credits	SHAMPA DAS
Section 'D' Unit: I	Nature of Brahman, Adhyāsa, vivartavāda,	06 Credits	DEBOMITA CHOUDHURY
Section 'D' Unit: II	māyā, three grades of sattā, jīva and jagat.	06 Credits	DEBOMITA CHOUDHURY

Section 'E' Unit: I	Distinction between advaitavāda and viśiṣṭādvaitavāda, , Ramanuja's Criticism of Saṃkara's Doctrine of māyā	05 Credits	KISHOR PAUL
Section 'E' Unit: II	Relation between jīva and jagat, Nature of Brahman .	05 Credits	KISHOR PAUL

PHIL-H-CC-T-04 Outline of Western Philosophy – 2			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Refutation of Innate Ideas , classification of Ideas ,Theory of Substance, Distinction between Primary and Secondary Qualities, Theory of Knowledge.	14 Credits	BAISAKHI BURMAN
Section 'B' Unit: I	Rejection of the Distinction between Primary and Secondary Qualities, Esse Est Percipi, The Problem of Solipcism.	08 Credits	KISHOR PAUL
Section 'B' Unit: II	Refutation of Abstract Ideas. Role of God.	06 Credits	KISHOR PAUL
Section 'C' Unit: I	Impressions and Ideas, Association of Ideas, Judgments Concerning Relations of Ideas, Judgments Concerning Matters of Fact.	07 Credits	DEBOMITA CHOUHURY
Section 'C' Unit: II	Theory of Causality, Theory of Self and Personal Identity, Humean Skepticism.	07 Credits	SUBHAM DAS
Section 'D' Unit: I	Conception of Critical Philosophy, Copernican Revolution in Philosophy,	07 Credits	SHAMPA DAS
Section 'D' Unit: II	Classification of Judgments: Analytic, Synthetic, a priori, a posteriori; Possibility of Synthetic a-priori Judgments.	07 Credits	SHAMPA DAS

PHIL-G-GE-T-02
Western Logic

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	SUBHAM DAS
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	SUBHAM DAS
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	SUBHAM DAS
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	KISHOR PAUL
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	KISHOR PAUL
Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOU DHURY

PHIL-G-CC-T-02
Western Logic

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	SUBHAM DAS
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	SUBHAM DAS
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	SUBHAM DAS
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	KISHOR PAUL
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	KISHOR PAUL
Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOU DHURY

SEMESTER –IV

PHIL-H-CC-T-08 Western Logic – 1			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Introduction to Logic	1.Sentence and Proposition; Distinction between deductive and inductive argument, Logical form	08 Credits	KISHOR PAUL
	2. Truth, Validity and Soundness		KISHOR PAUL
	3. Laws of Thought		KISHOR PAUL
Section 'B' Deduction	1. Aristotelian Classification of Categorical Proposition; Square of Opposition and the question of existential input; Conversion, obversion, contra position, inversion.	36 Credits	KISHOR PAUL
	2. Categorical Syllogism: figures and moods; rules of validity; fallacies		KISHOR PAUL
	3. Boolean interpretation of propositions; Venn diagram technique for testing the validity of syllogisms		SHAMPA DAS
	4. Truth function: negation, conjunction, disjunction, implication, equivalence		KISHOR PAUL
	5. Arguments and argument forms; decision procedures: truth tables; reductio ad absurdum		KISHOR PAUL
	6. Techniques of symbolization; proof construction: Formal Proof of Validity and Invalidity		SHAMPA DAS
	7. Quantification theory: singular and single – general propositions; rules of quantification, proving validity and invalidity of quantification theory.		SHAMPA DAS
Section C Induction	1. Analogy	12 Credits	DEBOMITA CHOUDHURY
	2. Mills method of experimental enquiry		DEBOMITA CHOUDHURY
	3. Scientific hypothesis		DEBOMITA CHOUDHURY
	4. Elementary probability calculus		DEBOMITA CHOUDHURY

PHIL-H-CC-T-09 Psychology			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Psychology	Nature and Scope of Psychology	04 Credits	DEBOMITA CHOUDHURY
Section 'B' Methods of Psychology	Introspection , Extrospection , Experimental and observation.	14 Credits	DEBOMITA CHOUDHURY
Section 'C' Psychological Process	Sensation, Perception, Web-Fechner Law Classical approach, Gestalt approach, Wertheimer Koffka & Kohler. Memory, Attention, Personality, Learning: Thorndike's connectionism, Pavlov's classical conditioning, Gestalt Theory, I.Q	20 Credits	BAISAKHI BURMAN
Section 'D' Consciousness	Levels of Mind: Conscious, Sub-Conscious, Unconscious.	09 Credits	BAISAKHI BURMAN
	Proofs for the existence of unconsciousness; Freud's theory of dream.	09 Credits	BAISAKHI BURMAN

PHIL-H-CC-T-10 Philosophy of Religion			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Nature and Scope of Philosophy of Religion	04 Credits	SUBHAM DAS
Section 'B'	Religion: Origin and Development of Religion, Atheism, Deism, Theism, Pantheism, Religion without God, Monotheism, Polytheism, Henotheism	20 Credit	SUBHAM DAS
Section 'C'	Hinduism, Christianity, Islam, Buddhism: Basic Tenets.	10 Credits	SUBHAM DAS
Section 'D'	Argument for the Existence of God: Ontological, Cosmological, and Teleological	12 Credits	SUBHAM DAS
Section 'E'	Arguments against the Existence of god	10 Credits	SUBHAM DAS

PHIL-H-SEC-T-02 Logical Rules and Fallacies (Western)			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	R.Jeffry: Formal Logic (1st Edition) It's scope and Limits, Chapter-4	19 Credits	KISHOR PAUL
Section 'B'	P. Suppes : Introduction to Logic (Indian edition) Chapter-9 , Section – 9.1 to 9.8	19 Credits	SUBHAM DAS

PHIL-G-GE-T-04 Western Logic			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	SUBHAM DAS
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	SUBHAM DAS
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	SUBHAM DAS
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	KISHOR PAUL
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	KISHOR PAUL

Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOUDHURY

<p style="text-align: center;">PHIL-G-CC-T-04 Social and Political Philosophy</p>			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Nature and scope of social and political philosophy, Their relation to Sociology, Social philosophy, Politics and Ethics	12 Credits	DEBOMITA CHOUDHURY
Unit: II	Individual, Society, Community.	10 Credits	DEBOMITA CHOUDHURY
Unit: III	Social Institutions: Association, Institution, Family, Marriage, Education and Religion	12 Credits	DEBOMITA CHOUDHURY
Unit: IV	Political Ideologies: Democracy, Socialism, sarvodaya.	12 Credits	BAISAKHI BURMAN
Unit: V	Methods of Political Action: Terrorism, satyagraha	10 Credits	SHAMPA DAS

<p style="text-align: center;">PHIL-G-SEC-T-02 Logical Rules and Fallacies (Western)</p>			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	R.Jeffry: Formal Logic (1st Edition) It's scope and Limits, Chapter-4	19 Credits	KISHOR PAUL
Section 'B'	P. Suppes : Introduction to Logic (Indian edition) Chapter-9 , Section – 9.1 to 9.8	19 Credits	SUBHAM DAS

SEMESTER –VI

PHIL-H-CC-T-13 Western Epistemology			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	An Introduction to Philosophical Analysis – John Hospers. Chapter I, II,III &IV	56 Credits	SHAMPA DAS

PHIL-H-CC-T-14 Western Metaphysics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	An Introduction to Philosophical Analysis – John Hospers. Chapter V,VI & VIII	56 Credits	DEBOMITA CHOUDHURY

PHIL-H-DSE-T-03 Practical Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit-I	An Introduction to Moral Philosophy and Applied Ethics.	10 Credits	KISHOR PAUL
Unit-II	Value of Human Life: Rights, Duties & Justice.	12 Credits	BAISAKHI BURMAN
Unit-III	a) Nature as Means & Ends b) Respect for Animal Ecology	10 Credits	KISHOR PAUL
Unit-IV	Medical Ethics: Surrogacy, Doctor-Patient Relation, Abortion	12 Credits	BAISAKHI BURMAN
Unit-V	Discrimination: Gender, Caste & Class	12 Credits	BAISAKHI BURMAN

PHIL-H-DSE-T-04 Contemporary Indian Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Topic 1	Rabindranath Tagore- Surplus in Man, Education	56 Credits	SUBHAM DAS
Topic 2	M.N. Roy – Radical Humanism		SUBHAM DAS
Topic 3	Aurobindo- Evolution, Involution		SUBHAM DAS
Topic 4	Vivekananda- Universal Religion, Practical Vedanta		KISHOR PAUL

PHIL-G-GE -T02 INDUCTIVE LOGIC			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	Introduction to Inductive Logic 1. Subject matter of Inductive Logic 2. Inductive Procedure and stages of Inductive procedure 3. Problem of Induction	10 Credits	SUBHAM DAS
Unit – II	Kinds of Induction 1. Scientific Induction 2. Unscientific Induction 3. Analogy	10 Credits	BAISAKHI BURMAN
Unit – III	Postulates of Induction: 1. Law of Uniformity of Nature 2. Law of Universal Causation	10 Credits	KISHOR PAUL
Unit – IV	Hypothesis 1. Definition of Hypothesis with Examples. 2. Kinds of Hypothesis 3. Conditions of a legitimate Hypothesis 4. Verification of a Hypothesis	12 Credits	SHAMPA DAS
Unit – V	Mills method of experimental enquiry	14 Credits	DEBOMITA CHOUDHURY

PHIL-G-DSE-T-1B			
Contemporary Indian Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Topic 1	Rabindranath Tagore- Surplus in Man, Education	56 Credits	SUBHAM DAS
Topic 2	M.N. Roy – Radical Humanism		SUBHAM DAS
Topic 3	Aurobindo- Evolution, Involution		SUBHAM DAS
Topic 4	Vivekananda- Universal Religion, Practical Vedanta		KISHOR PAUL

PHIL-G-SEC-T-04			
YOGA PHILOSOPHY			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit – I	The Definition and Essence of Yoga	10 Credits	SUBHAM DAS
Unit – II	Yoga in Jainism, Yoga in Buddhism (vipassanā) and Yoga in Bhagvadgītā	18 Credits	KISHOR PAUL
Unit – III	Patanjali's Astāngika Yoga Mārga	10 Credits	DEBOMITA CHOUDHURY

MODULARISATION OF SYLLABUS
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DEPARTMENT OF PHILOSOPHY
NABADWIP VIDYASAGAR COLLEGE
(UNIVERSITY OF KALYANI)
SEMESTER –I

PHIL-H-CC-T-01 Outline of Indian Philosophy – 1			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Distinctive Features of Indian Philosophy	03 Credits	DEBOMITA CHOUDHURY
Section 'A' Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Section 'B' Unit: I	Cārvāka School: It's epistemology	03 Credits	SUBHAM DAS
Section 'B' Unit: II	Metaphysics and Ethics.	03 Credits	SUBHAM DAS
Section 'C' Unit: I	Jainism: Concepts of sat, dravya, guṇa, paryāya, jīva, and ajīva.	05 Credits	KISHOR PAUL
Section 'C' Unit: II	Anekāntavāda, syādvāda and saptabhangīnaya.	05 Credits	KISHOR PAUL
Section 'D' Unit: I	Four Noble Truths, pratītyasamutpāda, kṣaṇabhangavāda, nairātmyavāda .	07 Credits	BAISAKHI BURMAN
Section 'D' Unit: II	Schools of Buddhism: Vaibhāṣika, Sautrāntika, Jogācara ,Mādhyamika.	07 Credits	BAISAKHI BURMAN
Section 'E' Unit: I	Nyāya Epistemology: Four pramāṇa-s: Perception, Inference, Comparison and Testimony; Theory of Error; Nature of Cause, Classification of Causes: samavāyi , asamavāyi , nimitta , asatkāryavāda , the Idea of God and proofs for His Existence.	10 Credits	SHAMPA DAS
Section 'E' Unit: II	Vaiśeṣika Metaphysics, paramāṇuvāda, Seven Categories	10 Credits	SHAMPA DAS

PHIL-H-CC-T-02
Outline of Western Philosophy – 1

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Features of Ancient, Medieval and Modern Periods	04 Credits	DEBOMITA CHOUDHURY
Section 'B' Unit: I	Theory of Knowledge.	05 Credits	SUBHAM DAS
Section 'B' Unit: II	Theory of Ideas or form.	05 Credits	SUBHAM DAS
Section 'C' Unit: I	Refutation of Plato's Theory of Ideas.	03 Credits	DEBOMITA CHOUDHURY
Section 'C' Unit: II	Theory of Causation, Form and Matter.	05 Credits	DEBOMITA CHOUDHURY
Section 'D' Unit: I	Method of Descartes, Cogito Ergo Sum, Types of Ideas, Criterion of Truth, substance	06 Credits	BAISAKHI BURMAN
Section 'D' Unit: II	Proofs for the existence of God, Mind and Body Relation.	06 Credits	BAISAKHI BURMAN
Section 'E' Unit: I	The Doctrine of Substance, Attributes and Modes, The Concept of God or Nature , Pantheism,	05 Credits	KISHOR PAUL
Section 'E' Unit: II	Mind - Body Relation. Degrees of Knowledge, Intellectual Love of God	05 Credits	KISHOR PAUL
Section 'F' Unit: I	Doctrine of Monads and Pre-established Harmony, God: Nature and Proofs for His existence.	06 Credits	SHAMPA DAS
Section 'F' Unit: II	Truths of Reason and Truths of Fact, Theory of Knowledge: Principles of Non-contradiction, Sufficient Reason and the Identity of Indiscernible.	06 Credits	SHAMPA DAS

PHIL-G-GE-T-01
Indian Philosophy

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUDHURY
Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	SUBHAM DAS
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratītyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	KISHOR PAUL

PHIL-G-CC-T-01 Indian Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUDHURY
Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	SUBHAM DAS
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratītyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	KISHOR PAUL

SEMESTER –III

PHIL-H-CC-T-05 Indian Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	1. Introduction: presuppositions and determination , theory of karma; niṣkāma karma	08 Credits	DEBOMITA CHOUDHURY

Section 'B'	2. dharma: It's meaning and definition; vedic concepts of svadharma, sādharmaṇa dharma, āśrama dharma, viśeṣa dharma; varṇa dharma.	16 Credits	DEBOMITA CHOUDHURY
Section 'C'	3. puruṣārtha and their interrelation.	08 Credits	DEBOMITA CHOUDHURY
Section 'D'	4. Buddhist Ethics: pañcaśīla and brahmavihārabhāvanā.	08 Credits	SHAMPA DAS
Section 'E'	5. Jaina Ethics: triratna, anuvrata and mahāvratā.	08 Credits	SHAMPA DAS
Section 'F'	6. Joga Ethics : ahimsā ,yama, niyama	08 Credits	SHAMPA DAS

PHIL-H-CC-T-06 Western Ethics			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Nature and scope of ethics or moral philosophy.	10 Credits	SUBHAM DAS
	Non-moral action, object of moral philosophymotive or intention.		BAISAKHI BURMAN
Section 'B'	Teleological Ethics : Egoism , Hedonism ,	12 Credits	KISHOR PAUL
	Utilitarianism (Utilitarianism : Act-Utilitarianism ; General Utilitarianism ; Rule Utilitarianism)		BAISAKHI BURMAN
Section 'C'	Deontological Ethics: Kant	12 Credits	SHAMPA DAS
Section 'D'	Practical Ethics: Killing, Euthanasia, Suicide.	12 Credits	BAISAKHI BURMAN
	Theories of punishment.		SUBHAM DAS
Section 'E'	Virtue ethics : Aristotle	10 Credits	KISHOR PAUL

PHIL-H-CC-T-07 Indian Logic			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
	Tarkasamgraha with Dīpikā – Annambhatta. Sarvavyavahara heturgunah buddhirjnanam to Nigrahasthanantaramiti nabina. (Upto Hetvabhāsa)	56 Credits	BAISAKHI BURMAN SHAMPA DAS KISHOR PAUL

PHIL-H-SEC-T-01 Logical Rules and Fallacies (Indian)			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Definition and classification of anumāna (a) The Nyāya model (chala, jāti, nigrahasthāna, vāda, jalpa, vitaṇḍā) (b) The Buddhist model (prasaga)	12 Credits	KISHOR PAUL
Unit: II	Aid to Anumāna: (a) tarka (b) avayava (c) dṛṣṭānta (d) siddhānta	8 Credits	KISHOR PAUL
Unit: III	Nature of Hetu and Hetvābhāsa	18 Credits	KISHOR PAUL

PHIL-G-GE-T-03 Indian Philosophy			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUHURY
Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	SUBHAM DAS

Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), praṭīyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	KISHOR PAUL

PHIL-G-CC-T-03 HISTORY OF WESTERN PHILOSOPHY			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	A. Plato: Knowledge and Opinion	06 Credits	SUBHAM DAS
	B. Descartes: Cogito Ergo Sum, Mind -Body Dualism and its critique by Ryle.	06 Credits	BAISAKHI BURMAN
Unit: II	A. Spinoza: Concepts of Substance	05 Credits	KISHOR PAUL
	B. Leibnitz: Theory of Monads	07 Credits	KISHOR PAUL
	C. Locke: Refutation of innate ideas, The origin and formation of ideas, Simple and Complex ideas.	07 Credits	BAISAKHI BURMAN
Unit: III	A. Berkeley: Critique of Locke's theory of Material substance	05 Credits	SHAMPA DAS
	B. Hume: Theory of Causation	06 Credits	DEBOMITA CHOUDHURY
Unit: IV	Kant: Classification of Propositions, Possibility of synthetic a priori.	12 Credits	SHAMPA DAS

PHIL-G-SEC-T-01
Logical Rules and Fallacies (Indian)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Definition and classification of anumāna (a) The Nyāya model (chala, jāti, nigrahasthāna, vāda, jalpa, vitaṇḍā) (b) The Buddhist model (prasaga)	12 Credits	KISHOR PAUL
Unit: II	Aid to Anumāna: (a) tarka (b) avayava (c) dṛṣṭānta (d) siddhānta	8 Credits	KISHOR PAUL
Unit: III	Nature of Hetu and Hetvābhāsa	18 Credits	KISHOR PAUL

BA PART- III (HONOURS)

Paper – V: Indian Logic & Epistemology

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Recommended Text: Tarkasaṃgrahaḥ with Dīpikā - Annambhatta	1. Definition of Buddhi - its kinds	3	KISHOR PAUL
	2. Definition of Smṛiti, Anubhava, its division	3	BAISAKHI BURMAN
	3. Fourfold division of Prama and Pranama	4	BAISAKHI BURMAN
	4. Definition of Karana an Karana	1	BAISAKHI BURMAN
	5. The definition of Karya, Kinds of Cause	3	BAISAKHI BURMAN
	6. Definition of Pratyaksha and its two-fold	5	BAISAKHI BURMAN
	7. Definition of Anumana, Anumiti and Paramarsa, Paksta, Vyapti, Vyaptigraha, Paksdharmata	12	BAISAKHI BURMAN
	8. Upamana, Sabda - as a Pramana, Sakti - controversy between the Mimamsakas and Teh Naiyayikas	10	KISHOR PAUL

Paper –VI: Philosophical Analysis

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
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Recommended Text:	John Hospers : An Introduction to Philosophical Analysis (First Indian Edition) Chapters -1,2,3,4,5	30	SHAMPA DAS
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Paper – VII

Group –A: (Eastern Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Introduction:	Concerns and Presuppositions; Theory of karma, niškāma karma	2	KISHOR PAUL
2. Dharma:	Its Meaning and Definition, sādharmaṇa dharma, viśeṣa dharma; varna dharma and āśrama dharama, svādhāraṇa	2	KISHOR PAUL
3. Purūsārtha-s	Purūsārtha-s and their interrelations	3	SHAMPA DAS
4. Buddhist Ethics :	pancaśīla, brahmavihārabhāvanā	4	SHAMPA DAS

Group – B: (Western Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Nature and Scope of Ethics	Nature and Scope of Ethics or Moral philosophy	5	BAISAKHI BURMAN
2. Hedonism:	Psychological & Ethical , Utilitarianism: Act-utilitarianism, Rule-utilitarianism	6	BAISAKHI BURMAN
3. Teleological and Deontological Theories of Ethics;	Ethical Egoism; Psychological Egoism, Rule Deontological Theories; Kant's Theory	6	BAISAKHI BURMAN

Paper VIII

Group –A: Philosophy of Religion

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Nature and Scope of Philosophy of Religion,	Distinction between 3 Religion & Comparative Religion	3	SHAMPA DAS
2. Origin of Religion:	: Anthropological Theories (Mānā, Totem & Taboo)	2	SUBHAM DAS
3. Religion	Dharma and Dhamma	2	SHAMPA DAS
4. Grounds of Belief in God	-Cosmological, Teleological and Ontological arguments	8	BAISAKHI BURMAN

Group –B (Optional Paper)

Contemporary Indian Philosophy.

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Rabindranath Tagore :	Manuser Dharma	10	DEBOMITA CHOUDHURY

PART- III (GENERAL)

Paper IV

Group: A (Philosophy of Religion)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Nature	. Nature and anthropological Origin of Religion (Galloway)	14	SUBHAM DAS
2. Arguments	2. Arguments for and against the Existence of God (Hick)	12	SUBHAM DAS

Group B (Social and Political Philosophy)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Nature and scope	. Nature and scope of social and political philosophy	4	DEBOMITA CHOUDHURY
2. Individual Society	. Individual Society, Community, State, Nation	12	DEBOMITA CHOUDHURY

MODULARISATION OF SYLLABUS
(2019- 2020)
DEPARTMENT OF PHILOSOPHY
NABADWIP VIDYASAGAR COLLEGE
(UNIVERSITY OF KALYANI)
SEMESTER –II

PHIL-H-CC-T-03 Outline of Indian Philosophy – 2			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Sāmkhya Duality : prakṛti and it's constituents , proofs for the existence of prakṛti, satkaryavād1	05 Credits	BAISAKHI BURMAN
Section 'A' Unit: II	puruṣa : It's nature and arguments for it's existence. Plurality of puruṣa	05 Credits	BAISAKHI BURMAN
Section 'B' Unit: I	citta, cittabhūmi, cittavṛtti	06 Credits	SUBHAM DAS
Section 'B' Unit: II	Eightfold path (astānga yoga) and īśvara.	06 Credits	SUBHAM DAS
Section 'C' Unit: I	vidhi, niṣedha. pramāṇa-s with special reference to arthāpatti and anupalabdhi,	06 Credits	SHAMPA DAS
Section 'C' Unit: II	Theories of error: akhyativāda (Prabhākara), anyathakhyativāda (Bhātta)	06 Credits	SHAMPA DAS
Section 'D' Unit: I	Nature of Brahman, Adhyāsa, vivartavāda,	06 Credits	DEBOMITA CHOUDHURY
Section 'D' Unit: II	māyā, three grades of sattā, jīva and jagat.	06 Credits	DEBOMITA CHOUDHURY

Section 'E' Unit: I	Distinction between advaitavāda and viśiṣṭādvaitavāda, , Ramanuja's Criticism of Saṃkara's Doctrine of māyā	05 Credits	KISHOR PAUL
Section 'E' Unit: II	Relation between jīva and jagat, Nature of Brahman .	05 Credits	KISHOR PAUL

PHIL-H-CC-T-04 Outline of Western Philosophy – 2			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Refutation of Innate Ideas , classification of Ideas ,Theory of Substance, Distinction between Primary and Secondary Qualities, Theory of Knowledge.	14 Credits	BAISAKHI BURMAN
Section 'B' Unit: I	Rejection of the Distinction between Primary and Secondary Qualities, Esse Est Percipi, The Problem of Solipcism.	08 Credits	KISHOR PAUL
Section 'B' Unit: II	Refutation of Abstract Ideas. Role of God.	06 Credits	KISHOR PAUL
Section 'C' Unit: I	Impressions and Ideas, Association of Ideas, Judgments Concerning Relations of Ideas, Judgments Concerning Matters of Fact.	07 Credits	DEBOMITA CHOUDHURY
Section 'C' Unit: II	Theory of Causality, Theory of Self and Personal Identity, Humean Skepticism.	07 Credits	SUBHAM DAS
Section 'D' Unit: I	Conception of Critical Philosophy, Copernican Revolution in Philosophy,	07 Credits	SHAMPA DAS
Section 'D' Unit: II	Classification of Judgments: Analytic, Synthetic, a priori, a posteriori; Possibility of Synthetic a- priori Judgments.	07 Credits	SHAMPA DAS

PHIL-G-GE-T-02
Western Logic

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	SUBHAM DAS
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	SUBHAM DAS
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	SUBHAM DAS
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	KISHOR PAUL
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	KISHOR PAUL
Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOUDHURY

PHIL-G-CC-T-02
Western Logic

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	SUBHAM DAS
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	SUBHAM DAS
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	SUBHAM DAS
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	KISHOR PAUL
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	KISHOR PAUL
Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOUDHURY

SEMESTER –IV

PHIL-H-CC-T-08 Western Logic – 1			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Introduction to Logic	1.Sentence and Proposition; Distinction between deductive and inductive argument, Logical form	08 Credits	KISHOR PAUL
	2. Truth, Validity and Soundness		KISHOR PAUL
	3. Laws of Thought		KISHOR PAUL
Section 'B' Deduction	1. Aristotelian Classification of Categorical Proposition; Square of Opposition and the question of existential input; Conversion, obversion, contra position, inversion.	36 Credits	KISHOR PAUL
	2. Categorical Syllogism: figures and moods; rules of validity; fallacies		KISHOR PAUL
	3. Boolean interpretation of propositions; Venn diagram technique for testing the validity of syllogisms		SHAMPA DAS
	4. Truth function: negation, conjunction, disjunction, implication, equivalence		KISHOR PAUL
	5. Arguments and argument forms; decision procedures: truth tables; reductio ad absurdum		KISHOR PAUL
	6. Techniques of symbolization; proof construction: Formal Proof of Validity and Invalidity		SHAMPA DAS
	7. Quantification theory: singular and single – general propositions; rules of quantification, proving validity and invalidity of quantification theory.		SHAMPA DAS
Section C Induction	1. Analogy	12 Credits	DEBOMITA CHOUDHURY
	2. Mills method of experimental enquiry		DEBOMITA CHOUDHURY
	3. Scientific hypothesis		DEBOMITA CHOUDHURY
	4. Elementary probability calculus		DEBOMITA CHOUDHURY

PHIL-H-CC-T-09 Psychology			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Psychology	Nature and Scope of Psychology	04 Credits	DEBOMITA CHOUDHURY
Section 'B' Methods of Psychology	Introspection , Extrospection , Experimental and observation.	14 Credits	DEBOMITA CHOUDHURY
Section 'C' Psychological Process	Sensation, Perception, Web-Fechner Law Classical approach, Gestalt approach, Wertheimer Koffka & Kohler. Memory, Attention, Personality, Learning: Thorndike's connectionism, Pavlov's classical conditioning, Gestalt Theory, I.Q	20 Credits	BAISAKHI BURMAN
Section 'D' Consciousness	Levels of Mind: Conscious, Sub-Conscious, Unconscious.	09 Credits	BAISAKHI BURMAN
	Proofs for the existence of unconsciousness; Freud's theory of dream.	09 Credits	BAISAKHI BURMAN

PHIL-H-CC-T-10 Philosophy of Religion			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	Nature and Scope of Philosophy of Religion	04 Credits	SUBHAM DAS
Section 'B'	Religion: Origin and Development of Religion, Atheism, Deism, Theism, Pantheism, Religion without God, Monotheism, Polytheism, Henotheism	20 Credit	SUBHAM DAS
Section 'C'	Hinduism, Christianity, Islam, Buddhism: Basic Tenets.	10 Credits	SUBHAM DAS
Section 'D'	Argument for the Existence of God: Ontological, Cosmological, and Teleological	12 Credits	SUBHAM DAS
Section 'E'	Arguments against the Existence of god	10 Credits	SUBHAM DAS

PHIL-H-SEC-T-02 Logical Rules and Fallacies (Western)			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	R.Jeffry: Formal Logic (1st Edition) It's scope and Limits, Chapter-4	19 Credits	KISHOR PAUL
Section 'B'	P. Suppes : Introduction to Logic (Indian edition) Chapter-9 , Section – 9.1 to 9.8	19 Credits	SUBHAM DAS

PHIL-G-GE-T-04 Western Logic			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	SUBHAM DAS
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	SUBHAM DAS
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	SUBHAM DAS
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	KISHOR PAUL
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	KISHOR PAUL

Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOU DHURY

<p style="text-align: center;">PHIL-G-CC-T-04 Social and Political Philosophy</p>			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Nature and scope of social and political philosophy, Their relation to Sociology, Social philosophy, Politics and Ethics	12 Credits	DEBOMITA CHOU DHURY
Unit: II	Individual, Society, Community.	10 Credits	DEBOMITA CHOU DHURY
Unit: III	Social Institutions: Association, Institution, Family, Marriage, Education and Religion	12 Credits	DEBOMITA CHOU DHURY
Unit: IV	Political Ideologies: Democracy, Socialism, sarvodaya.	12 Credits	BAISAKHI BURMAN
Unit: V	Methods of Political Action: Terrorism, satyagraha	10 Credits	SHAMPA DAS

<p style="text-align: center;">PHIL-G-SEC-T-02 Logical Rules and Fallacies (Western)</p>			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A'	R.Jeffry: Formal Logic (1st Edition) It's scope and Limits, Chapter-4	19 Credits	KISHOR PAUL
Section 'B'	P. Suppes : Introduction to Logic (Indian edition) Chapter-9 , Section – 9.1 to 9.8	19 Credits	SUBHAM DAS

BA PART- III (HONOURS)

Paper – V: Indian Logic & Epistemology

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Recommended Text: Tarkasamgrahaḥ with Dīpikā - Annambhatta	1. Hetvabhasa - two types of definition, five kinds of Hetvabhasa	20	BAISAKHI BURMAN
	2. Vyapyatvasiddhi defined as sopadhika hetu, Upadhi and its four kinds		
	3. Theory of Pramanya 4. Prabhakara Theory of A-Khyati		
	5. Three kinds of non-Vedical anubhava: Samasya, Viparyaya and tarka		
	6. Two kinds of smriti		

Paper –VI: Philosophical Analysis

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Recommended Text:	John Hospers : An Introduction to Philosophical Analysis (First Indian Edition) Chapters – 6,7,8	20	SHAMPA DAS

Paper – VII

Group –A: (Eastern Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
5. Jaina ethics :	anuvratas and mahāvratas, triratna	2	SHAMPA DAS
6. Ideal of Islam	Ideal of Islam-Five Pillars of Islam	2	SHAMPA DAS

Group – B: (Western Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
4. Utilitarianism :	Act-utilitarianism, General Utilitarianism, Rule utilitarianism	4	BAISAKHI BURMAN
5. Some basic tenets of Christianity	Original Sin, Ten Commandments, Love	2	BAISAKHI BURMAN
6. Theories of Punishment	t, Suicide, Abortion, Euthanasia: Nature and Types	5	BAISAKHI BURMAN
7. Practical & Environmental Ethics:	: Anthropocentrism, Non-Anthropocentrism	5	BAISAKHI BURMAN

Paper VIII

Group –A: Philosophy of Religion

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
5. Grounds of Disbelief in God	Sociological Theory and Freudian Theory, Cārvāka, Buddha and Jaina Views	5	KISHOR PAUL
6. The Problem of Evil	The Problem of Evil	5	SUBHAM DAS

Group –B (Optional Paper)

Contemporary Indian Philosophy.

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Swami Vivekananda	A. Real nature of Man	10	DEBOMITA CHOUHURY
	B. Ideal of Universal Religion		
	C. Concept of Practical Vedanta		

PART- III (GENERAL)

Paper IV

Group: A (Philosophy of Religion)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
3. Problem of Evil	Problem of Evil (Galloway)	5	SUBHAM DAS
4. (Gītā)	Jñāna, Karma, Bhakti and Yoga as Moksa-mārga-s	5	KISHOR PAUL
		5	BAISAKHI BURMAN

Group B (Social and Political Philosophy)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
3. Social Institutions	: Family, Marriage, Property, Education and	5	SHAMPA DAS
4. Political Ideologies:	: Democracy and its different forms: Utopian	5	DEBOMITA CHOUDHURY

MODULARISATION OF SYLLABUS
(2018- 2019)
DEPARTMENT OF PHILOSOPHY
NABADWIP VIDYASAGAR COLLEGE
(UNIVERSITY OF KALYANI)
SEMESTER –I

PHIL-H-CC-T-01 Outline of Indian Philosophy – 1			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Distinctive Features of Indian Philosophy	03 Credits	DEBOMITA CHOUDHURY
Section 'A' Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Section 'B' Unit: I	Cārvāka School: It's epistemology	03 Credits	BAISAKHI BURMAN
Section 'B' Unit: II	Metaphysics and Ethics.	03 Credits	BAISAKHI BURMAN
Section 'C' Unit: I	Jainism: Concepts of sat, dravya, guṇa, paryāya, jīva, and ajīva.	05 Credits	DEBOMITA CHOUDHURY
Section 'C' Unit: II	Anekāntavāda, syādvāda and saptabhangīnaya.	05 Credits	DEBOMITA CHOUDHURY
Section 'D' Unit: I	Four Noble Truths, pratītyasamutpāda, kṣaṇabhangavāda, nairātmyavāda .	07 Credits	BAISAKHI BURMAN
Section 'D' Unit: II	Schools of Buddhism: Vaibhāṣika, Sautrāntika, Jogācara ,Mādhyamika.	07 Credits	BAISAKHI BURMAN
Section 'E' Unit: I	Nyāya Epistemology: Four pramāṇa-s: Perception, Inference, Comparison and Testimony; Theory of Error; Nature of Cause, Classification of Causes: samavāyi , asamavāyi , nimitta , asatkāryavāda , the Idea of God and proofs for His Existence.	10 Credits	SHAMPA DAS
Section 'E' Unit: II	Vaiśeṣika Metaphysics, paramāṇuvāda, Seven Categories	10 Credits	SHAMPA DAS

PHIL-H-CC-T-02
Outline of Western Philosophy – 1

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Features of Ancient, Medieval and Modern Periods	04 Credits	DEBOMITA CHOUDHURY
Section 'B' Unit: I	Theory of Knowledge.	05 Credits	DEBOMITA CHOUDHURY
Section 'B' Unit: II	Theory of Ideas or form.	05 Credits	DEBOMITA CHOUDHURY
Section 'C' Unit: I	Refutation of Plato's Theory of Ideas.	03 Credits	BAISAKHI BURMAN
Section 'C' Unit: II	Theory of Causation, Form and Matter.	05 Credits	BAISAKHI BURMAN
Section 'D' Unit: I	Method of Descartes, Cogito Ergo Sum, Types of Ideas, Criterion of Truth, substance	06 Credits	BAISAKHI BURMAN
Section 'D' Unit: II	Proofs for the existence of God, Mind and Body Relation.	06 Credits	BAISAKHI BURMAN
Section 'E' Unit: I	The Doctrine of Substance, Attributes and Modes, The Concept of God or Nature , Pantheism,	05 Credits	SHAMPA DAS
Section 'E' Unit: II	Mind - Body Relation. Degrees of Knowledge, Intellectual Love of God	05 Credits	SHAMPA DAS
Section 'F' Unit: I	Doctrine of Monads and Pre-established Harmony, God: Nature and Proofs for His existence.	06 Credits	SHAMPA DAS
Section 'F' Unit: II	Truths of Reason and Truths of Fact, Theory of Knowledge: Principles of Non-contradiction, Sufficient Reason and the Identity of Indiscernible.	06 Credits	SHAMPA DAS

PHIL-G-GE-T-01
Indian Philosophy

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUDHURY
Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	BAISAKHI BURMAN
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratītyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	DEBOMITA CHOUDHURY

PHIL-G-CC-T-01
Indian Philosophy

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Distinctive Features of Indian Philosophy.	03 Credits	DEBOMITA CHOUDHURY
Unit: II	Basics concepts of Vedic and the Upanisadic World Views. ṛta (The Cosmic Order); ṛṇa (Duty/Obligation) ātman; jāgrat , svapna , suṣupti , turīya; śreyas ,preyas ,karma.	03 Credits	DEBOMITA CHOUDHURY
Unit: III	Cārvāka Epistemology: pratyakṣa as the only source of knowledge; refutation of anumāna	08 Credits	BAISAKHI BURMAN
Unit: IV	Buddhism: Four Noble Truth (catvari aryasatyani), pratītyasamudpāda, nairātmyavāda, different schools of Buddhism	10 Credits	BAISAKHI BURMAN
Unit: V	Jaina: mahavrata, anuvrata, syadvada and anekantavada.	08 Credits	BAISAKHI BURMAN
Unit: VI	Nyāya: pratyakya, anumāna (definition and classification)	10 Credits	SHAMPA DAS
Unit: VII	Vaiśeṣika: Seven padārtha-s.	08 Credits	SHAMPA DAS
Unit: VIII	Advaita Metaphysics: Brahman, māyā.	06 Credits	DEBOMITA CHOUDHURY

BA PART- II (HONOURS)

Paper III

GROUP-A: PSYCHOLOGY

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Psychology	Nature and Scope	4	SHAMPA DAS
2. Methods of Psychology :	Introspection, Extrospection and Experimental Methods	6	SHAMPA DAS
3. Sensation and Perception:	Nature of Sensation, Attributes of Sensation, Weber-Fechner Law	6	BAISAKHI BURMAN
4. Psychological Processes :	Perceptions : Distinction between Sensation and Perception, Classical approach : Helmholtz Gestalt approach , Wertheimer Koffka & Kohler	4	BAISAKHI BURMAN
5. Learning	Theories of Learning – Thorndike’s Connectionism, Pavlov’s Classical Conditioning, Gestalt Theory. Nature, Condition and Span of Attention	4	BAISAKHI BURMAN
6. Attention:	Nature, Condition and Span of Attention	4	BAISAKHI BURMAN
7. Memory:	Factors of Memory, Marks of Good Memory, Laws of Association	4	BAISAKHI BURMAN

GROUP – B : Social and Political Philosophy

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Nature & Scope	i) Social Philosophy , ii) Political Philosophy	6	DEBOMITA CHOUDHURY
2. Basic concepts :	Society , Community , Association, Institutions, Family	10	DEBOMITA CHOUDHURY

3. Theories about the relations between Individual and Society :	i) Individualistic Theory ii) Organic Theory iii) Idealistic Theory	8	DEBOMITA CHOUDHURY
4. Social Change	Marx, Ambedkar	6	DEBOMITA CHOUDHURY
5. Political Ideals :	Democracy and its Forms , Socialism :	6	DEBOMITA CHOUDHURY

Paper- IV

WESTERN LOGIC

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
i) M.Copi & Karl Cohen:	Introduction to Logic (11th Edition); Chapters: 5 – 11	45	SHAMPA DAS

PART – II (GENERAL)

Paper – II Group – A (Indian Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1.	Purūsārtha (A General View)	3	SHAMPA DAS
2.	Sakāma and Niṣkāma	4	SHAMPA DAS
3.	Cārvāka Ethics	2	SHAMPA DAS

(Western Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1.	Nature and scope of Ethics	3	DEBOMITA CHOUDHURY
2.	Moral and Non-Moral actions.	2	DEBOMITA CHOUDHURY
3.	Object of Moral judgment	3	DEBOMITA CHOUDHURY

Group – B (Psychology)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1.	What is sensation? Attributes of sensation; Weber – Fechner Law.	8	BAISAKHI BURMAN
2.	: What is perception? The relation between sensation and perception; The Gestalt Theory of Perception.	7	BAISAKHI BURMAN
3.	: Factors of memory; Laws of association; Forgetfulness.	8	BAISAKHI BURMAN

Paper – III
Group – A (Indian Logic)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1.	Nature of anumana, paksa ,Sadhya,hetu	8	BAISAKHI BURMAN
2.	Vyapti ,Vyaptigraha, Paramarsa.	8	BAISAKHI BURMAN

Group – B (Western Logic)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Introductory topics:	Introductory topics: Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	4	DEBOMITA CHOUDHURY
2. Aristotelian classification	Aristotelian classification of categorical proposition, Distribution of terms, Boolean interpretation of categorical proposition.	4	DEBOMITA CHOUDHURY
3. Immediate inference based on the square of opposition ;	conversion , obversion and contraposition	2	DEBOMITA CHOUDHURY
4. Categorical syllogism;	; figure, mood, rules of validity; Venn diagram, method of testing validity; Fallacies.	5	DEBOMITA CHOUDHURY
5. Symbolic Logic	: Use of Symbols.	4	SHAMPA DAS
6. Truth-Functions ;	negation ,conjunction, disjunction,implication, equivalence	4	SHAMPA DAS

BA PART- III (HONOURS)

Paper – V: Indian Logic & Epistemology

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Recommended Text: Tarkasaṃgrahaḥ with Dīpikā - Annambhatta	1. Definition of Buddhi - its kinds	3	BAISAKHI BURMAN
	2. Definition of Smṛiti, Anubhava, its division	3	BAISAKHI BURMAN
	3. Fourfold division of Prama and Pranama	4	BAISAKHI BURMAN
	4. Definition of Karana an Karana	1	BAISAKHI BURMAN
	5. The definition of Karya, Kinds of Cause	3	BAISAKHI BURMAN
	6. Definition of Pratyaksha and its two-fold	5	BAISAKHI BURMAN
	7. Definition of Anumana, Anumiti and Paramarsa, Paksta, Vyapti, Vyaptigraha, Paksdharmata	12	BAISAKHI BURMAN
	8. Upamana, Sabda - as a Pramana, Sakti - controversy between the Mimamsakas and Teh Naiyayikas	10	BAISAKHI BURMAN

Paper –VI: Philosophical Analysis

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Recommended Text:	John Hospers : An Introduction to Philosophical Analysis (First Indian Edition) Chapters -1,2,3,4,5	30	SHAMPA DAS

Paper – VII

Group –A: (Eastern Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Introduction:	Concerns and Presuppositions; Theory of karma, nişkāma karma	2	DEBOMITA CHOUDHURYY
2. Dharma:	Its Meaning and Definition, sādharmaṇa dharma, viśeṣa dharma; varna dharma and āśrama dharama, svādhāraṇa	2	DEBOMITA CHOUDHURY
3. Purūsārtha-s	Purūsārtha-s and their interrelations	3	SHAMPA DAS
4. Buddhist Ethics :	pancaśīla, brahmavihārabhāvanā	4	SHAMPA DAS

Group – B: (Western Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Nature and Scope of Ethics	Nature and Scope of Ethics or Moral philosophy	5	BAISAKHI BURMAN

2. Hedonism:	Psychological & Ethical , Utilitarianism: Act-utilitarianism, Rule- utilitarianism	6	BAISAKHI BURMAN
3. Teleological and Deontological Theories of Ethics;	Ethical Egoism; Psychological Egoism, Rule Deontological Theories; Kant's Theory	6	BAISAKHI BURMAN

Paper VIII

Group –A: Philosophy of Religion

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Nature and Scope of Philosophy of Religion,	Distinction between 3 Religion & Comparative Religion	3	SHAMPA DAS
2. Origin of Religion:	: Anthropological Theories (Mānā, Totem & Taboo)	2	SHAMPA DAS
3. Religion	Dharma and Dhamma	2	SHAMPA DAS
4. Grounds of Belief in God	-Cosmological, Teleological and Ontological arguments	8	BAISAKHI BURMAN

Group –B (Optional Paper)

Contemporary Indian Philosophy.

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Rabindranath Tagore :	Manuser Dharma	10	DEBOMITA CHOUDHURY

PART- III (GENERAL)

Paper IV

Group: A (Philosophy of Religion)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Nature	. Nature and anthropological Origin of Religion (Galloway)	14	BAISAKHI BURMAN
2. Arguments	2. Arguments for and against the Existence of God (Hick)	12	BAISAKHI BURMAN

Group B (Social and Political Philosophy)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
1. Nature and scope	. Nature and scope of social and political philosophy	4	DEBOMITA CHOUDHURY
2. Individual Society	. Individual Society, Community, State, Nation	12	DEBOMITA CHOUDHURY

MODULARISATION OF SYLLABUS
(2018- 2019)
DEPARTMENT OF PHILOSOPHY
NABADWIP VIDYASAGAR COLLEGE
(UNIVERSITY OF KALYANI)
SEMESTER –II

PHIL-H-CC-T-03 Outline of Indian Philosophy – 2			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Sāmkhya Duality : prakṛti and it's constituents , proofs for the existence of prakṛti, satkaryavād1	05 Credits	BAISAKHI BURMAN
Section 'A' Unit: II	puruṣa : It's nature and arguments for it's existence. Plurality of puruṣa	05 Credits	BAISAKHI BURMAN
Section 'B' Unit: I	citta, cittabhūmi, cittavṛtti	06 Credits	BAISAKHI BURMAN
Section 'B' Unit: II	Eightfold path (astānga yoga) and īśvara.	06 Credits	BAISAKHI BURMAN
Section 'C' Unit: I	vidhi, niṣedha. pramāṇa-s with special reference to arthāpatti and anupalabdhi,	06 Credits	DEBOMITA CHOUDHURY
Section 'C' Unit: II	Theories of error: akhyativāda (Prabhākara), anyathakhyativāda (Bhātta)	06 Credits	DEBOMITA CHOUDHURY
Section 'D' Unit: I	Nature of Brahman, Adhyāsa, vivartavāda,	06 Credits	SHAMPA DAS
Section 'D' Unit: II	māyā, three grades of sattā, jīva and jagat.	06 Credits	SHAMPA DAS

Section 'E' Unit: I	Distinction between advaitavāda and viśiṣṭādvaitavāda, , Ramanuja's Criticism of Saṃkara's Doctrine of māyā	05 Credits	SHAMPA DAS
Section 'E' Unit: II	Relation between jīva and jagat, Nature of Brahman .	05 Credits	SHAMPA DAS

PHIL-H-CC-T-04 Outline of Western Philosophy – 2			
UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Section 'A' Unit: I	Refutation of Innate Ideas , classification of Ideas ,Theory of Substance, Distinction between Primary and Secondary Qualities, Theory of Knowledge.	14 Credits	BAISAKHI BURMAN
Section 'B' Unit: I	Rejection of the Distinction between Primary and Secondary Qualities, Esse Est Percipi, The Problem of Solipcism.	08 Credits	BAISAKHI BURMAN
Section 'B' Unit: II	Refutation of Abstract Ideas. Role of God.	06 Credits	SHAMPA DAS
Section 'C' Unit: I	Impressions and Ideas, Association of Ideas, Judgments Concerning Relations of Ideas, Judgments Concerning Matters of Fact.	07 Credits	DEBOMITA CHOUDHURY
Section 'C' Unit: II	Theory of Causality, Theory of Self and Personal Identity, Humean Skepticism.	07 Credits	DEBOMITA CHOUDHURY
Section 'D' Unit: I	Conception of Critical Philosophy, Copernican Revolution in Philosophy,	07 Credits	SHAMPA DAS
Section 'D' Unit: II	Classification of Judgments: Analytic, Synthetic, a priori, a posteriori; Possibility of Synthetic a-priori Judgments.	07 Credits	SHAMPA DAS

PHIL-G-GE-T-02
Western Logic

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	DEBOMITA CHOUDHURY
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	DEBOMITA CHOUDHURY
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	DEBOMITA CHOUDHURY
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	BAISAKHI BURMAN
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	SHAMPA DAS
Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOUDHURY

PHIL-G-CC-T-02
Western Logic

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CREDITS	NAME OF THE TEACHER'S
Unit: I	Introductory topics: Distinguish between Deductive and Inductive argument, Sentence, Proposition, (traditional and modern interpretation), argument: truth, validity, soundness.	04 Credits	DEBOMITA CHOUDHURY
Unit: II	Aristotelian classification of categorical proposition, Distribution of terms.	04 Credits	DEBOMITA CHOUDHURY
Unit: III	Immediate inference based on the square of opposition ; conversion , obversion	04 Credits	DEBOMITA CHOUDHURY
Unit: IV	Categorical syllogism; figure, mood, rules of validity; Fallacies.	06 Credits	BAISAKHI BURMAN
Unit: V	Symbolic Logic: Use of Symbols.	03 Credits	BAISAKHI BURMAN
Unit: VI	Truth-Functions ; negation ,conjunction, disjunction, implication, equivalence	05 Credits	BAISAKHI BURMAN
Unit: VII	Tautology, Contradiction, Contingency	05 Credits	SHAMPA DAS
Unit: VIII	Decision Procedure : Truth Table	05 Credits	SHAMPA DAS
Unit: IX	Using Truth Tables for testing the validity of arguments; Venn Diagram for testing validity; Fallacies	08 Credits	SHAMPA DAS
Unit: X	Mill's Method of experimental enquiry, Analogy	12 Credits	DEBOMITA CHOUDHURY

BA PART- II (HONOURS)

Paper III

GROUP-A: PSYCHOLOGY

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
8. Interactionism :	Double Aspect Theory, Psychological Behaviorism, Identity Theory	4	BAISAKHI BURMAN
9. Consciousness :	Levels of Mind : Conscious, Sub-conscious & Unconscious, Proofs for the Existence of Unconscious, Freud's Theory of Dream	10	BAISAKHI BURMAN
10.. Intelligence:	Measurement of Intelligence, I.Q., BinetSimon Test of Inte	6	BAISAKHI BURMAN

GROUP – B : Social and Political Philosophy

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
6. Gandhi	Gandhi on the concepts of Swarāj, Satyāgraha and Sarvodaya	5	DEBOMITA CHOUDHURY

Paper- IV

WESTERN LOGIC

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
i) M.Copi & Karl Cohen:	Introduction to Logic (11th Edition); Chapters: 11-14	25	SHAMPA DAS

PART – II (GENERAL)

Paper – II

Group – A (Indian Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
4. Buddhist Ethics:	: The Four Noble Truths and The Eight –fold Path, Pancaśīla.	4	SHAMPA DAS
5. Jaina Ethics:	Concept of Ahimsa, Anubrata, Mahabrata, Triratna.	4	SHAMPA DAS

(Western Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
4. Teleological Ethics:	: Utilitarianism, Hedonism.	4	DEBOMITA CHOUDHURY
5. Deontological Ethics :	Kant	2	DEBOMITA CHOUDHURY
6. Theories of Punishment	Theories of Punishment	2	DEBOMITA CHOUDHURY

Group – B (Psychology)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
4. Consciousness:	Different levels of consciousness; Evidence for the unconscious; Ferud’s theory of dream.	3	BAISAKHI BURMAN

5. Learning:	: The trial and error theory; the Gestalt theory; Pavlov's conditioned reflex theory.	3	BAISAKHI BURMAN
6. Intelligence :	: Measurement of Intelligence ; Binet Simon test	3	BAISAKHI BURMAN

Paper – III
Group – A (Indian Logic)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
3.	Svarthanumiti, pararthanumiti, kevalanvayi, kevalavyatire ki and anvaya-vayatireki anumiti	5	BAISAKHI BURMAN
4.	Hetvabhasa	5	BAISAKHI BURMAN

Group – B (Western Logic)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
7.	Tautology, Contradiction, Contingent; Construction of Truth Table.	5	SHAMPA DAS
8.	Using Truth Tables for testing the validity of arguments; Testing Statement forms as Tautology, contradiction and contingent	5	SHAMPA DAS
9.	Mill's Methods of Experimental enquiry	5	SHAMPA DAS

BA PART- III (HONOURS)

Paper – V: Indian Logic & Epistemology

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Recommended Text: Tarkasaṃgrahaḥ with Dīpikā - Annambhatta	1. Hetvabhasa - two types of definition, five kinds of Hetvabhasa	20	BAISAKHI BURMAN
	2. Vyapyatvasiddhi defined as sopadhika hetu, Upadhi and its four kinds		
	3. Theory of Pramanya 4. Prabhakara Theory of A-Khyati		
	5. Three kinds of non-Vedical anubhava: Samasya, Viparyaya and tarka		
	6. Two kinds of smriti		

Paper –VI: Philosophical Analysis

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Recommended Text:	John Hospers : An Introduction to Philosophical Analysis (First Indian Edition) Chapters – 6,7,8	20	SHAMPA DAS

Paper – VII

Group –A: (Eastern Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
5. Jaina ethics :	anuvratas and mahāvratas, triratna	2	SHAMPA DAS
6. Ideal of Islam	Ideal of Islam-Five Pillars of Islam	2	SHAMPA DAS

Group – B: (Western Ethics)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
4. Utilitarianism :	Act-utilitarianism, General Utilitarianism, Rule utilitarianism	4	BAISAKHI BURMAN
5. Some basic tenets of Christianity	Original Sin, Ten Commandments, Love	2	BAISAKHI BURMAN
6. Theories of Punishment	t, Suicide, Abortion, Euthanasia: Nature and Types	5	BAISAKHI BURMAN
7. Practical & Environmental Ethics:	: Anthropocentrism, Non-Anthropocentrism	5	BAISAKHI BURMAN

Paper VIII

Group –A: Philosophy of Religion

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
5. Grounds of Disbelief in God	Sociological Theory and Freudian Theory, Cārvāka, Buddha and Jaina Views	5	BAISAKHI BURMAN
6. The Problem of Evil	The Problem of Evil	5	SHAMPA DAS

Group –B (Optional Paper)

Contemporary Indian Philosophy.

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
Swami Vivekananda	A. Real nature of Man	10	DEBOMITA CHOUHURY
	B. Ideal of Universal Religion		
	C. Concept of Practical Vedanta		

PART- III (GENERAL)

Paper IV

Group: A (Philosophy of Religion)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
3. Problem of Evil	Problem of Evil (Galloway)	5	BAISAKHI BURMAN
4. (Gītā)	Jñāna, Karma, Bhakti and Yoga as Moksa-mārga-s	10	BAISAKHI BURMAN

Group B (Social and Political Philosophy)

UNITWISE DIVISION	PRESCRIBED COURSE	TOTAL CLASS	NAME OF THE TEACHER
3. Social Institutions	: Family, Marriage, Property, Education and	5	SHAMPA DAS
4. Political Ideologies:	: Democracy and its different forms: Utopian	5	SHAMPA DAS

MODULARISATION OF SYLLABUS

(2017- 2018)

DEPARTMENT OF PHILOSOPHY

NABADWIP VIDYASAGAR COLLEGE

(UNIVERSITY OF KALYANI)

BA. Part-I (Honours) (Paper-I and Paper-II)

From the beginning of 1st Year Classes to Pre-Puja vacation

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper-I <u>Classical Indian</u> <u>Philosophy</u>	1. Distinctive features of Indian Philosophy.	4	DEBOMITA CHOUDHURY
	2. Carvaka School, Epistemology, Metaphysics, Ethics	10	BAISAKHI BURMAN
	3. Jainism Concept of sat, dravya, guna, paryaya	6	SHAMPA DAS
Paper-II <u>History of</u> <u>Western</u> <u>Philosophy</u>	1. Introduction	2	DEBOMITA CHOUDHURY
	2. Plato Theory of knowledge theory of Forms	4	DEBOMITA CHOUDHURY
	3. Aristotle Critique of Plato's theory of Forms.	7	BAISAKHI BURMAN
	4. Theory of causation Forms and Matter	7	SHAMPA DAS

After Puja vacation to December

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper-I <u>Classical</u> <u>Indian</u> <u>Philosophy</u>	1.Jainism: Jiva and ajiva, Anekantavada, Syadvada and Saptabhanginaya	8	DEBOMITA CHOUDHURY
	2.nyaya: Four Pramanas : Pratyaksa — definition and its classifications. Anumiti, Anumana, Vyapti, Classification of anumana. Theory of causation.	20	BAISAKHI BURMAN
	3.Vaisesika : Seven Padarthas, dravya, guna,Karma, Samanya, Vishesh, Samavaya and Visesa, Samavaya and abhava, Paramanuvada	16	SHAMPA DAS

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper-II <u>History of</u> <u>Western</u> <u>Philosophy</u>	1.Descartes: Cartensian Method of Doubt, Cagito ergo sum, Criterion of Truth, Types of Ideas, Substance, Proofs for the existence of God, External world, Mind-body relation.	15	BAISAKHI BURMAN
	2.Spinoza: Substance, Attributes, Modes, Pantheism, Mind-body relation, orders of knowing,Intellectual Love of God.	10	DEBOMITA CHOUDHURY
	3.Lock: Refutation of innate Ideas, Theory of Ideas, Knowledge, its grades, limits, substance, quality, classification of quality, Representative Realism.	45	SHAMPA DAS

From January to before Test Exam.

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper-1 <u>Classical</u> <u>Indian</u> <u>Philosophy</u>	1. Buddhism: The Four Noble Truths, Pratityasamutpada, Momeritariness, nairatmyavada, Schools : Vaibhasika, Sautrantika, Yogacara, Madhyamika	15	BAISAKHI BURMAN
	2. Samkhaya: Theory of Cansation, Prakriti, Purusa, Plurality of Purasa,	8	BAISAKHI BURMAN
	3. Yoga: Chitta, Chitta-bhumi, Chitta-vrtti, Eight Fold Path, The God of Yoga.	8	SHAMPA DAS
	4. Vedanta: Advaita-Brahman, Vivartavada, Maya, grades of Sattva, Jiva-Jagat, Moksa Visitadvaita-Brahman, Jiva-Jagat, Refutation of Maya	15	DEBOMITA CHOU DHURY
	5. Mimamsa: Arthapatti, abhava, anupalabdhi.	10	SHAMPA DAS
Paper-2 <u>History of</u> <u>Western</u> <u>Philosophy</u>	Leibnitz: Monadolog, Pre-established Harmony Truths of Reason and Fact, Identity of indiscernibles, Principle of non-contradiction & sufficient reason.	10	DEBOMITA CHOU DHURY
	Berkeley: Rejection of abstract ideas, Rejection of the distinction between primary and secondary qualities, Immaterialism, esse est Percipi, Role of God	16	BAISAKHI BURMAN
	Hume Impressions and Ideas, Relations of ideas, matters of fact, causation, Self, Scepticism.	15	BAISAKHI BURMAN

	Kant :Concept of critical philosophy, Copernican revolution, classification of judgements, Analytic and Synthetic, a priori, a posteriori, Possibility of synthetic a priori judgments.	15	SHAMPA DAS
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BA Part II (Hons)

Paper – III, IV

From the beginning of 2 year classes to Pre-Puja vacation			
MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper III Group A: PSYCHOLOGY (New Syllabus)	1. Psychology Nature and Scope	4	BAISAKHI BURMAN
	2. Methods of Psychology Introspection, Extrospection and Experimental Methods	6	BAISAKHI BURMAN
	3. Sensation and Perception: Nature of Sensation, Attributes of Sensation, Weber-Fechner Law	6	BAISAKHI BURMAN
Group B: SOCIAL AND POLITICAL PHILOSOPHY	1. Nature & Scope of i) Social Philosophy., ii) Political Philosophy	6	DEBOMITA CHOUHDURY
	2. Basic concepts: Society, Community, Association, Institutions, Family	10	DEBOMITA CHOUHDURY
Paper IV	Western Logic: Introduction to Logic (Copy- 11 Edu) Chapter-5 to 8	20	SHAMPA DAS

After Puja Vacation to December

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper III Group A PSYCHOLOGY	4. Psychological Processes: Perceptions: Distinction between Sensation and Perception, Classical approach: Helmboltz Gestalt approach, Wertheimer Kofika & Kohler	4	BAISAKHI BURMAN
	5. Learning: Theories of Learning- Thorndike's Connectionism, Pavlov's Classical Conditioning, Gestalt Theory.	4	BAISAKHI BURMAN
	6. Attention: Nature, Condition and Span of Attention	4	BAISAKHI BURMAN
	7. Memory: Factors of Memory, Marks of Good Memory, Laws of Association	4	BAISAKHI BURMAN
Group B: SOCIAL AND POLITICAL PHILOSOPHY	3. Theories about the relations between Individual and Society: i) Individualistic Theory ii) Organic Theory iii) Idealistic Theory	8	DEBOMITA CHOUDHURY
	4. Social Change : Marx, Ambedkar	6	DEBOMITA CHOUDHURY
	5. Political Ideals Democracy and its Forms, Socialism: Utopia and Scientific	6	DEBOMITA CHOUDHURY
Paper IV	Western Logic: Chapter 8-11	25	SHAMPA DAS

From January to before Test Exam

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper III Group A: PSYCHOLOGY	8. Interactionism: Double Aspect Theory, Psychological Behaviorism, Identity Theory	4	DEBOMITA CHOUDHURY
	9. Consciousness: Levels of Mind: Conscious, Subconscious & Unconscious, Proofs for the Existence of	10	BAISAKHI BURMAN
	10 Unconscious, Freud's Theory of Dream 10. Intelligence: Measurement of Intelligence, I.Q., Binet Simon Test of Intelligence	6	BAISAKHI BURMAN
Group B: SOCIAL AND POLITICAL PHILOSOPHY	6. Gandhi on the concepts of Swarj, Satygraha and Sarvodaya	5	BAISAKHI BURMAN
PAPER-IV	Western Logic: Chapter 11-14	25	SHAMPA DAS

B.A. 3rd year Part III (Honours)

Paper - V, VI, VII and VIII

From the beginning to Pre-Puja vacation			
MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper- v Indian Logic and Epistemology	1. Definition of Buddhi - its kinds	2	BAISAKHI BURMAN
	2. Definition of Smriti, Anubhava, its division	3	BAISAKHI BURMAN
	3. Fourfold division of Prama and Pranama	3	BAISAKHI BURMAN
	4. Definition of Karana and Anakarana	2	BAISAKHI BURMAN
Paper – VI Western Epistemology and Metaphysics	1. Meaning and definition	5	SHAMPA DAS
	2. Knowledge: concepts, truths, source	5	SHAMPA DAS
Paper – VII Ethics: Indian and Western Indian	1. Theory of Karma	2	DEBOMITA CHOUDHURY
	2. Dharma: its meaning, definition, classification, vidhi, nishedha, arthavada	2	DEBOMITA CHOUDHURY
Western:	1. Nature of Ethics, morality, Factors in morality, kinds of normative judgement	3	BAISAKHI BURMAN
	2. Teleological and Deontological Ethics Act and Rule	3	BAISAKHI BURMAN
Paper VII Philosophy of Religion (Group A)	1. Nature and scope of Philosophy of Religion, distinction between Religion and Comparative Religion	3	SHAMPA DAS
	2. Origin of Religion: Anthropological Theories (Mana, Totem and Taboo)	4	SHAMPA DAS
	3. Religion, Dharma and Dhamma	3	SHAMPA DAS
(Group B)	Contemporary Indian Philosophy	10	DEBOMITA CHOUDHURY

After Puja vacation to December

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper – V Indian Logic and Epistemology	1. The definition of Karya, Kinds of Cause	6	BAISAKHI BURMAN
	2. Definition of Pratyaksha and its two-fold	4	BAISAKHI BURMAN
	3. Definition of Anumana, Anumiti and Paramarsa, Paksta, Vyapti, Vyaptigraha, Paksdharmata	12	BAISAKHI BURMAN
	4. Upamana, Sabda - as a Pramana, Sakti - controversy between the Mimamsakas and Teh Naiyayikas	10	SHAMPA DAS
Paper VI Western Epistemology and Metaphysics	1. Induction	4	SHAMPA DAS
	2. Causality	4	SHAMPA DAS
	3. Determinism and Freedom	4	SHAMPA DAS
	4. Substance and Universals	4	SHAMPA DAS
	5. Mind and Body	6	BAISAKHI BURMAN
Paper – VII Ethics (Eastern and Western) Indian Ethics	1. Purusarthas	4	SHAMPA DAS
	2. Buddhist Ethics: Pancasila	3	DEBOMITA CHOUDHURY
Western Ethics	1. Psychological Egoism	2	DEBOMITA CHOUDHURY
	2. Rule Deontological Theories	2	BAISAKHI BURMAN
	3. Kant's Theory	3	BAISAKHI BURMAN
Paper VII	4. Grounds of belief in God - Cosmological, Teleological and Ontological arguments	6	DEBOMITA CHOUDHURY

Philosophy of Religion (Group A)	5. Grounds of disbelief in God - Sociological Theory and Freudian Theory, Carvaka, Buddha and Jaina view	6	SHAMPA DAS
(Group B)	B. Problems of Philosophy	10	BAISAKHI BURMAN

From January to before Test Exam

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper V Indian Logic and Epistemology	1. Hetvabhasa two types of definition, five kinds of Hetvabhasa	6	BAISAKHI BURMAN
	2. Vyapyatvasiddhi defined as sopadhika hetu, Upadhi and its four kinds	4	BAISAKHI BURMAN
	3. Theory of Pramanya	2	SHAMPA DAS
	4. Prabhakara Theory of A-Khyati	3	SHAMPA DAS
	5. Three kinds of non-Vedical anubhava: Samasya, Viparyaya and tarka	3	SHAMPA DAS
	6. Two kinds of smriti	2	SHAMPA DAS
Paper – VI Western Epistemology and Metaphysics	1. Testability and meaning	6	BAISAKHI BURMAN
	2. Knowledge of the Physical World - Epistemological & Metaphysical view	8	SHAMPA DAS
	3. Idealism	2	DEBOMITA CHOUDHURY
	4. Phenomenalism	4	DEBOMITA CHOUDHURY
Paper – VII Ethics (Eastern and Western) Indian Ethics	1. Jaina Ethics: Anuvratas and Mahabharatas, Trianta	3	DEBOMITA CHOUDHURY
	2. Ideals of Islam	2	DEBOMITA CHOUDHURY

Western Ethics	1. Utilitarianism: Act Utilitarianism, General Utilitarianism, Rule Utilitarianism	8	BAISAKHI BURMAN
	2. Moral and Non-moral sense of good, morality and cultivation of traits, Ethics of Virtue	7	BAISAKHI BURMAN
Paper- VIII Philosophy of Religion (Group A)	6. The problem of Evil	10	DEBOMITA CHOUDHURY
(Group B)	D. Contemporary Indian Philosophy	10	SHAMPA DAS

B.A. Part-I (General)

Paper-I

From the begining Pre-Puja vacation

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper-1 Group-A Indian Epistomogy and Metaphysics	1. Carvaka Epistemolgoy: Pratyaksa as the only source fknowledge, refutation of Anumana and Sabda pramanas.	8	BAISAKHI BURMAN
	2. Carvaka Materialism	4	BAISAKHI BURMAN
	3. Nyaya Epistemology: Pratyaksa, Upamana and Sabda.	12	SHAMPA DAS
Group-B Western Epistemology and Metaphysics	1. Knowledge: Definition and kinds, propositional know ledge, necessary and sufficient knowledge, knowing how .. and knowing that.	6	DEBOMITA CHOU DHURY
	2. Sources of Knowledge: i) Rationalism i) Empiricism ii) Kant's theor	10	SHAMPA DAS

After Puja Vacation to before test Exam.

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper-1 Group:A Indian Epistomogy and Metaphysics	1.Jaina view of Nyaya and Syadvada	7	BAISAKHI BURMAN
	2.Buddhist view of Pratitya Samudpada, Universal Flux, Nairatmyavada	7	BAISAKHI BURMAN
	3. Vaisesika, Seven Padarthas, Paramanuvada.	8	SHAMPA DAS
	4.Advaita Metaphysics: Brahman, Maya, Relation of Iva Brahman (Sankara and Ramanuja)	8	DEBOMITA CHOUDHURY
Group-B Western Epistemology and Metaphysics	1. Nature of knowledge i)Naive Realism ii) Scientific Realism iii) Subjective Idealism	10	SHAMPA DAS
	2. Casuality a) Regularity theory b)Entailment theory	10	DEBOMITA CHOUDHURY
	3. Mind-body problem i) Interactionism ii) Parallelism iii) Identity theory	10	BAISAKHI BURMAN

B.A. Part-II (General)

Paper-II and Paper-III

From the begining Pre-Puja vacation			
MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper-II Group-A Ethics (Indian)	1. Purusartha 2.Karma-Sakama and Niskama	7	DEBOMITA CHOUDHURY
Ethics (Western)	3.Nature and scope of Ethics 4.Moral and Non-moral actions 5.Object of Moral actions	8	SHAMPA DAS
Group-B Psychology	1.Sensation: Attributes, Weber-Fechner Law. 2.Perception: Relation between sensation and Perception Gestalt theory of perception.	15	BAISAKHI BURMAN
Paper-III Group-A Indian Logic	1. Definition of knowledge	3	DEBOMITA CHOUDHURY
	2. Definition of Anumiti	4	SHAMPA DAS
	3. Paksha, Sadhya, Hetu	4	SHAMPA DAS
	4. Classification of Anumiti	4	BAISAKHI BURMAN
Group-B Western Logic	1. Sentence, Proposition (traditional and modern), argument, truth, validity	5	DEBOMITA CHOUDHURY
	2. Aristotelian classification of categorical proposition, Distribution of terms, Boolean interpretation of categorical proposition.	5	SHAMPA DAS

	3. Immediate inference: Conversion, obversion, contraposition	5	BAISAKHI BURMAN
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After Puja Vacation to before Test Exam.

MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper-II Ethics (Indian)	1.Carvaka Ethics	10	DEBOMITA CHOUDHURY
	2.Buddhist Ethics: Four noble truths, Eightfold Path, Panchila		
	3. Jaina Ethics: Ahimsa, Anubrata, Mahabrata, Triratna		
Ethics (Western)	1.Moral and non-moral actions	1	DEBOMITA CHOUDHURY
	2.Object of moral judgement	1	DEBOMITA CHOUDHURY
	3.Teleological Ethics: Utilitarianism, Hedonism	3	BAISAKHI BURMAN
	4.Deontological Ethics: Kant	3	BAISAKHI BURMAN
	5.Theories of Punishment	2	SHAMPA DAS
Paper-II Group-B Psychology	1. Memory: Factors, Laws 8 of Association, forgetfulness	4	DEBOMITA CHOUDHURY
	2.Consciousness: Different levels, Evidence for the 8 unconsciousness, Freud's theory of dream	10	BAISAKHI BURMAN
	3. Learning Trial and error theory, Gestalt theory of learning, Pavlov's Reflex theory.	3	SHAMPA DAS
	4.Intelligence: measurement, Binet-Simon test	3	SHAMPA DAS

Paper-II Group-A Indian Logic	1.Svarthanumiti, Pararthanumiti, Kevalanvayi, Kevalvyatireki, anvaya- vayatireki, anumiti	8	BAISAKHI BURMAN
	2.Hetvabhasa	8	SHAMPA DAS
Group-B Western Logic	1.Categorical syllogism: Figure, mood, validity, venndiagram, validity	8	SHAMPA DAS
	2.Symbolic Logic: Truth functions, construction of truth table, validity testing	8	BAISAKHI BURMAN
	3.Mill's Methods	5	DEBOMITA CHOUDHURY

B.A. Part-III (General)

Paper-IV

From the beginning to pre- Puja vacation			
MODULE	Name of the Topic	No. of Lectures	Name of the teacher
Paper- iv Group-A Philosophy of Religion	1.Nature and anthropological origin of Religion	4	DEBOMITA CHOUDHURY
	2.Arguments for the Existence of God	12	BAISAKHI BURMAN
Group-B Social and Political Philosophy	1.Nature and scope of social and political philosophy	4	DEBOMITA CHOUDHURY
	2.Individual society, Community, State, Nation	12	SHAMPA DAS

After Puja Vacation to befor test exam			
MODULE	Name of the Topic	No. of Lecturers	Name of the teacher
Paper –IV Group-A Philosophy of Religion	1.Argument against the Existence of God	12	BAISAKHI BURMAN
	2.Jnana, Karma, Bhakti and Yoga as Moksa- Marga's (Gita)	12	SHAMPA DAS
Group-B Social and political Philosophy	1.Social Institution : Family, Marriage, Propetry, Education and Religion.	17	DEBOMITA CHOUDHURY
	2.Political Ideologies: Democracy and its different forms: Utopion and scientific , Sarvodaya	17	SHAMPA DAS

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<i>Swati Bhattacharyye</i>	<i>Part-time Lecturer</i>	<i>Veda</i>

Faculty Profile with Name, Designation, Specialization

Modulation of the Syllabus B.A. (Honours) in Sanskrit

Course Code Course Title Course wise Class (L+T+P) Credit

SANS-H-CC-T-01 SANS-H-CC-T-02 Critical Survey of Sanskrit Literature T 6 SANS-H-GE-T-01 (Interdisciplinary) Basic Sanskrit T 6 SANS-H-AECC-T-01 (English Communication/ MIL)/ Environmental Science T 2 Total 4 courses Total 20

SEMESTER-I

SANS-H-CC-T-01

Classical Sanskrit Literature (Poetry)

SANS-H-CC-T-01 (Full Marks – 75)	Teacher's name
Section 'B' Kumārasaṃbhavam: Canto-V (Verse: 1-30) 12 Credits	Dr.Soma Mondal,
Section 'A' Raghuvamśam: Canto-I (Verse: 1-25) 12 Credits	Dr. Nitai Pal
Section 'C' Kirātārjunīyam: Canto I (1-25 Verses) 12 Credits	Swatin Bhattacharyya
Section 'D' Nītiśatakam (1-20 Verses, 1st two Paddhatis)- M. R. Kale Edition 08 Credits	Dr.Soma Mondal
Strīpratyaya, Ātmanepada and Parasmaipada Vidhāna Declension, Conjugation,	Sri Nitai Pal
Use of Kta, Ktavatu, Ktvā - Lyap, Tumun, Use of Comparative and Superlative Pratyayas.) Rājāvāhanacaritam 20 20	Sri Biplab Bagdi
Section 'E' Origin and Development of Mahākāvya and Gītikāvya 12 Credits	Sri Biplab Bagdi Smt. Swati Bhattacharyye

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Critical Survey of Sanskrit Literature

SANS-H-CC-T-02 (Full Marks – 75)	Teacher's name
Section 'A' Vedic Literature 20 Credits	Sri Biplab Bagdi
Section 'B' Rāmāyaṇa 08 Credits	Dr. Joydeb Bhattacharyye
Section 'C' Mahābhārata 08 Credits Section 'D' Purāṇas 06 Credits	Sri Biplab Bagdi, Nitai Pal
Section 'E' General Introduction to Vyākaraṇa, Darśana and Sāhityaśāstra 14 Credits	Dr. Nitai Pal, Dr.Soma Mondal,

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<i>Dr. Soma Mondal</i>	<i>Assistant Professor</i>	<i>Philosophy</i>
<i>Sri Biplab Bagdi</i>	<i>Assistant Professor</i>	<i>Veda</i>
<i>Dr. Nitai Pal</i>	<i>Assistant Professor</i>	<i>Naya</i>
<i>Dr. Joydeb Bhattacharyye</i>	<i>SACT</i>	<i>Indian Philosophy</i>
<i>Swati Bhattacharyye</i>	<i>SACT</i>	<i>Veda</i>

Modulation of the Syllabus B.A. (Honours) in Sanskrit

SEMESTER-II

SANS-H-CC-T-03

Classical Sanskrit Literature (Prose)

SANS-H-CC-T-03 (Full Marks – 75)	Teacher's name
Section 'A' Śukanāsopadeśa 24 Credits	Sri Biplab Bagdi
Section 'B' Viśrutacaritam Upto 15th Para 16 Credits Credits	Swati Bhattacharyya
Section 'C' Origin and development of prose, Important prose romances and fables 16 Credits	Dr.Soma Mondal, Sri Nitai Pal

SANS-H-CC-T-04 Sanskrit Composition and Communication

SANS-H-CC-T-04 (Full Marks – 75)	Teacher's name
Vibhaktyartha, Voice & Kṛt Section 'A' Unit: I (i) Vibhaktyartha Prakaraṇa of Laghusiddhāntakaumudī (ii) Voice (kaṭṛ, karma and bhāva) 06 Credits Unit: II Selections from Kṛt Prakaraṇa- from Laghusiddhāntakaumudī Major Sūtras for the formation of kṛdanta words (tavyat, tavya, anīyar, yat, , yat, , vul, tric, a, , kta, katavatu, śaṭṛi, śānac, tumun, ktvā-lyap, lyuṭ, ghan, ktin) 10 Credits	, Dr.Soma Mondal, Sri Nitai Pal Sri Biplab Bagdi
Section 'B' Translation and Communication Unit: I (i) Translation from Bengali/English to Sanskrit on the basis of cases, Compounds and kṛt suffixes. (ii) Translation from Sanskrit to Hindi/Bengali/English 10 Credits Unit: II Communicative Sanskrit: Spoken Sanskrit. 10 Credits	, Dr.Soma Mondal, Sri Nitai Pal Dr. Joydeb Bhattacharye
Section 'C' Essay Unit: I Essay (traditional subjects) e.g. veda, upaniṣad, Sanskrit Language, Sanskriti, Rāmāya, Mahābhārata, purāṇa, gītā, principal Sanskrit poets. 10 Credits Unit: II Essay based on issues and topic related to modern subjects like entertainment, sports, national and international affairs and social problems. 10 Credit	Dr.Soma Mondal , Sri Biplab Bagdi, Nitai Pal, Swati Bhattacharyya

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SESSION 2020-2021

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Faculty Profile with Name, Designation, Specialization

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<i>Sri Biplab Bagdi</i>	<i>Assistant Professor</i>	<i>Veda</i>
<i>Dr. Nitai Pal</i>	<i>Assistant Professor</i>	<i>Naya</i>
<i>Dr. Joydeb Bhattacharyye</i>	<i>SWACT</i>	<i>Indian Philosophy</i>
<i>Swati Bhattacharyye</i>	<i>SWACT</i>	<i>Veda</i>

**Modulation of the Syllabus B.A. (General) in Sanskrit
SEMESTER-I**

SANS-G-CC-T-01 Classical Sanskrit Literature (Poetry)

SANS-G-CC-T-01 Classical Sanskrit Literature (Poetry) (Full Marks – 75)	Teacher's name
Section 'A' Raghuvamśam: Canto-I (Verse: 1-25) 12 Credits	Dr. Nitai Pal ,

Section 'B' Kirātārjunīyam: Canto I (1-25 Verses) 12 Credits	Swati Bhattacharyya
Section 'C' Nītiśatakam (1-20 Verses, 1st two Paddhatis)-M. R. Kale Edition 12 Credits	Section 'C' Nītiśatakam (1-20 Verses, 1st two Paddhatis)-M. R. Kale Edition 12 Credits
Section 'D' History of Sanskrit Poetry 12 Credits	Sri Biplab Bagdi, Dr.Soma Mondal, Dr, Joydeb Bhattacharyya

**Modulation of the Syllabus B.A. (General) in Sanskrit
SEMESTER-II**

SANS-G-CC-T-02 Classical Sanskrit Literature (Prose)

SANS-G-CC-T-02 Classical Sanskrit Literature (Prose) (Full Marks – 75)	Teacher's name
Section 'A' Śukanāśopadeśa 20 Credits	, Sri Biplab Bagdi, Dr. Nitai Pal ,
Section 'B' Kirātārjunīyam: Canto I (1-25 Verses) 12 Credits	Swati Bhattacharyya,
Section 'C' Nītiśatakam (1-20 Verses, 1st two Paddhatis)-M. R. Kale Edition 12 Credits	Sri Biplab Bagdi
Section 'C' Survey of Sanskrit Literature – Prose 12 Credits	, Dr. Nitai Pal Dr.Soma Mondal, Dr, Joydeb Bhattacharyya

Semester-III

**Modulation of the Syllabus B.A. (General) in Sanskrit
Skill Enhancement Courses (SEC)**

SANS-G-SEC-T-01 Evolution of Indian Scripts

Skill Enhancement Courses (SEC) SANS-G-SEC-T-01 Evolution of Indian Scripts	Teacher's name
Unit: I 1. Antiquity of writing in India 2. Early Brāhmī and Kharoshthi Scripts 3. Development of Devanāgarī Scripts 4. Development of Eastern Indian Scripts with Special Reference to Bengali and Odia 14 Credits	Dr.Soma Mondal, Biplab Bagdi,
Section 'B' Unit: I 1. Types/Kinds of the Brāhmī script by 400 A.D. 2. Transition to early modern Indian scripts 3. Causes of variation in the Brāhmī script 14 Credits	Sri Biplab Bagdi, Nitai pal

Semester-IV
Modulation of the Syllabus B.A. (General) in Sanskrit
SANS-G-CC-T-04 Sanskrit Grammar

	Teacher's name
Section 'A' Laghusiddhāntakaumudī : Saṃjñā prakaraṇa 08 Credits	
Section 'A' Laghusiddhāntakaumudī : Saṃjñā prakaraṇa 08 Credits	Sri Biplab Bagdi ,
Section 'B' Laghusiddhāntakaumudī : Sandhi prakaraṇa 20 Credits	Dr.Soma Mondal, Dr. Nitai Pal
Section 'C' Laghusiddhāntakaumudī : Vibhakti prakaraṇa 20 Credits	Dr. Nitai Pal, Swati Bhattacharyya

Semester-IV
Modulation of the Syllabus B.A. (General) in Sanskrit
SANS-G-SEC-T-02 Basic Elements of Āyurveda

	Teacher's name
Section 'A' Introduction of Āyurveda 14 Credits	Sri Biplab Bagdi ,
Section 'B' Carakasamhitā – (Sūtra-sthānam) 14 Credits	Dr.Soma Mondal, Dr. Nitai Pal

Semester-V
Modulation of the Syllabus B.A. (General) in Sanskrit
SANS-G-DSE-T-02 Art of Balanced Living Sanskrit Tradition

	Teacher's name
Self-presentation Unit: I Method of Self-presentation : Hearing (śravaṇa), Reflection (manana) & meditation (nididhyāsana) – (Bṛhadāraṇyakopaniṣad, 2.4.5) 16 Credits	Dr.Soma Mondal, Dr. Nitai Pal
Section 'B' Concentration Unit: I Concept of Yoga : (Yogasūtra, 1.2) Restriction of fluctuations by practice (abhyāsa) and passionlessness (vairāgya) :(Yogasūtra, 1.12- 16) Eight aids to Yoga (aṣṭāṅgayoga) : (Yogasūtra, 2.29, 30,32, 46, 49, 50; 3.1-4). Yoga of action (kriyāyoga) : (Yogasūtra, 2.1) Four distinct means of mental purity (cittaprasādana) leading to oneness : (Yogasūtra, 1.33)	Biplab Bagdi, Dr. Nitai Pal
Section 'C' Refinement of Behavior Unit: I Methods of Improving Behavior : jñāna-yoga, dhyāna-yoga, karma-yoga and bhakti-yoga (especially karma-yoga)	Nandita Das, Swati Bhattacharyya

Karma : A natural impulse, essentials for life journey, co-ordination of the world, an ideal duty and a metaphysical dictate (Gītā, 3.5, 8, 10-16, 20 & 21) 20 Credits	
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Semester-V
Modulation of the Syllabus B.A. (General) in Sanskrit
SANS-G-SEC-T-03 Yogasūtra of Patañjali

	Teacher's name
Section 'A' Yogasūtra of Patañjali – SamādhiPāda Unit: I Yogasūtra of Patañjali: SamādhiPāda (Sutras: 1- 15) 07 Credits Unit: II Yogasūtra of Patanjali: SamādhiPāda (Sutras: 16- 29) 07 Credits Section 'B' Yogasūtra of Patañjali: SādhanaPāda	Dr.Soma Mondal, Dr. Nitai Pal
Section 'B' Yogasūtra of Patañjali: SādhanaPāda Unit: I Yogasūtra of Patanjali: SādhanaPāda (Sutra: 29- 45). 07 Credits Unit: II Yogasūtra of Patanjali: SādhanaPāda (Sutras: 46- 55) 07 Credits	Biplab Bagdi, Dr. Nitai Pal
Credits Unit: II Yogasūtra of Patanjali: SādhanaPāda (Sutras: 46- 55) 07 Credits	Nandita Das, Swati Bhattacharyya

Semester-VI
Modulation of the Syllabus B.A. (General) in Sanskrit
SANS-G-SEC-T-04 Indian Theatre

	Teacher's name
Section 'A' Tradition and History of Indian Theatre 07 Credits	Nandita Das, Dr. Nitai Pal
Section 'B' Theatre: Types and Constructions 07 Credits	Biplab Bagdi, Dr. Nitai Pal
Section 'C' Acting: Āgika, Vācika, Sāttvika and Āhārya 07 Credits	Dr. Soma Mandal, Swati Bhattacharyya
Section 'D' Drama: Subject-Plot (vastu), Hero (netā) and Sentiment (rasa).	Biplab Bagdi, Dr. Nitai Pal

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WITH EFFECT FROM THE ACADEMIC SESSION 2018-19

2018-2022

Detail Course Core Course:

B.A. (Hons.) Sanskrit SANS-H-CC-T-01

1) Classical Sanskrit Literature (Poetry) –

Section 'D'- Nīṭisatakam (1-20 Verses, 1st two Paddhatis)- M. R. Kale Edition 08 Credits

Section 'D' Nīṭisatakam (1-20 Verses, 1st two Paddhatis)-M. R. Kale Edition Unit: I Nīṭisatakam: Verses (1-10) Grammatical analysis Translation, explanation. 04 Credits Unit: II Nīṭisatakam: Verses (11-20) Grammatical analysis Translation, explanation, thematic analysis Bhartṛhari's comments on society. (**Prof. Biplab Bagdi**)

2) SANS-H-CC-T-02 Critical Survey of Sanskrit Literature Prescribed Course:

Section 'A' Vedic Literature 20 Credits

Unit-Wise Division: Section 'A' Vedic Literature Unit: I Saṁhitā (Ṛk, Yajuḥ, Sāma, Atharva) time, subject– matter, religion & Philosophy, social life

Teacher- (Prof. Biplab Bagdi, Prof. Swati Bhattacharya

3) SANS-H-CC-T-07 Indian Social Institutions and Polity-

Unit-Wise Division: Section 'A' **Indian Social Institutions** : Nature and Concepts Unit: I Indian Social Institutions : Definition and Scope: Sociological Definition of Social Institutions. Trends of Social Changes, **Sources of Indian Social Institutions (Vedic Literature, Sūtra Literature, Purāṇas, Rāmāyaṇa , Mahābhārata, Dharmasāstras, Buddhist and Jain Literature, Literary Works, Inscriptions, Memoirs of Foreign Writers)** 06 Credits Unit: II Social Institutions and Dharmasāstra Literature: Dharmasāstra as a special branch of studies of Social Institutions, sources of Dharma (Manusmṛti, 2,12; Yājñavalkyasmṛti,1.7). Different kinds of Dharma in the sense of Social Ethics Manusmṛti, 10,63; Viṣṇupurāṇa 2.16-17); Six kinds of Dharma in the sense of Duties (Mitākṣarāṭikā on Yājñavalkyasmṛti,1.1). Tenfold Dharma as Ethical Qualities (Manusmṛti,6.92); Fourteen-Dharmasthānas (Yājñavalkyasmṛti,1.3) 06 Credits Section 'B' Structure of Society and Values of Life Unit: I Varṇa-System and Caste System : Four-fold division of Varṇa System, (Ṛgveda, 10.90.12),

Mahābhārata, Śāntiparva,72.3-8); Division of Varṇa according to Guṇa and Karma (Bhagvadgīta , 4.13, 18.41-44). Origin of Caste-System from Inter-caste Marriages (Mahābhārata, Anuśāsanaparva, 48.3- 11); Emergence of non-Aryan tribes in Varṇa-System (Mahābhārata, Śāntiparva, 65.13-22). Social rules for up-gradation and down-gradation of Caste System (Āpastambadharmasūtra, 2.5.11.10-11, Baudhāyanadharmasūtra, 1.8.16.13-14, Manusmṛti, 10,64, Yājñavalkyasmṛti, 1.96) 05 Credits Page 18 of 3

(Prof. Biplab Bagdi, Prof. Swati Bhattacharya, Dr. Soma Mandal, Dr. Nitai pal

9 Unit: II Position of Women in the Society : Brief survey of position of women in different stages of Society. Position of women in Mahābhārata (Anuśāsanaparva, 46.5-11, Sabhāparva, 69.4-13. Praise of women in The Bṛhatsaṃhitā of Varāhamihira (Strīprasamsā, chapter-74.1-10) 04 Credits

Unit: III Social Values of Life : Social Relevance of Indian life style with special reference to Sixteen Saṃskāras. Four aims of life ‘Puruṣārtha-Catuṣṭaya’- 1. Dharma, 2. Artha, 3. Kāma, 4. Mokṣa. Four Āśramas- 1. Brahmacharya, 2. Gṛhastha, 3. Vānaprastha, 4. Saṃnyāsa

Prof. Biplab Bagdi, Prof. Swati Bhattacharya, Prof. Nandita das

4) SANS-H-CC-T-11 Vedic Literature

Unit-Wise Division: Section ‘A’ Saṃhitā and Brāhmaṇa **Unit: I Ṛgveda- Agni- 1.1, Uṣas- 3.61, Akṣa Sūkta 10.34, Hiraṇyagarbha- 10.121 20 Credits Unit: II Yajurveda- Śivasamkalpa Sūkta- 34.1-6 05 Credits Unit: III Atharvaveda- Sāmmanasyam- 3.30, Bhūmi12.1-12**

Prof. Biplab Bagdi, Prof. Swati Bhattachary,

5) SANS-H-CC-T-14 Self Management in the Gītā [A] Prescribed Course:

Total 56 Credits Section ‘A’ Gītā: Cognitive and emotive apparatus 16 Credits Section ‘B’ Gītā: Controlling the mind 24 Credits Section ‘C’ Gītā: Self management through devotion 16 Credits Unit-Wise Division: Section ‘A’ Gītā: Cognitive and emotive apparatus Unit: I Hierarchy of indriya, manas, buddhi and ātman III.42; XV. 7 Role of the ātman –XV.7; XV.9 8 Credits Unit: II Mind as a product of prakṛti VII.4 Properties of three guṇas and their impact on the mind – XIII. 5-6; XIV.5-8, 11-13; XIV.17 8 Credits Section ‘B’ Gītā: Controlling the mind Unit: I Confusion and conflict Nature of conflict I.1; IV.16; I.45; II.6 8 Credits Causal factors – Ignorance – II.41; Indriya – II.60, Mind – II.67; Rajoguṇa – III.36-39; XVI.21; Weakness of mind- II.3; IV.5 Unit: II Means of controlling the mind Meditation–difficulties –VI.34-35; procedure VI.11-14 Balanced life- III.8; VI.16-17 Diet control- XVII. 8-10 Physical and mental discipline – XVII. 14-19, VI. 36. 8 Credits Means of conflict resolution Importance of knowledge – II. 52 ; IV.38-39; IV.42 Clarity of buddhi – XVIII.30-32 Process of decision making – XVIII.63 Unit: III Control over senses – II.59, 64 Surrender of kartṛbhāva –XVIII .13-16; V.8-9 Desirelessness- II.48; II.55 Putting others before self – III.25 8 Credits Section ‘C’ Gītā: Self management through devotion Unit: I Surrender of ego – II.7 ; IX.27; VIII.7; XI.55 ; II.47 16 Credits Abandoning frivolous debates – VII.21, IV.11; IX.26 Acquisition of moral qualities - XII.11; XII.13-19

Prof. Swati Bhattacharya, Dr. Soma Mandal, Dr. Nitai pal, Prof Nandita Das

6) SANS-H-GE-T-02 Indian Culture and Social Issues Prescribed Course:

Total 56 Credits Section 'A' Culture in a multi-cultural Society 16 Credits Section 'B' Cultural Roots of India 30 Credits Unit-Wise Division: Section 'A' Understanding Culture Unit: I 1. What is culture? Culture and Civilization? 2. What is 'Indian' culture? 3. Culture in a multi-cultural society? 06 Credits Unit: II 1. Indus-Valley Civilization 2. Vedic Civilization 3. Sanskrit in Indo-Islamic tradition – (Proceedings of the Sagar University Seminar on “Islām kā Sanskrit Paramparā ko Yogadāna”) 09 Credits Unit: III 1. Versions of the Rāma legend in Sanskrit literature – Vālmīki's Rāmāyaṇa, Bhāṣā's Pratimā nāṭakam, Bhavabhūti's Uttaraāramacaritam, Rāghuvaṃśam of Kālidāsa, Somadeva's Kathāsaritsāgara, Rāmāyaṇa-mañjarī of Rājaśekhara etc. 2. Sanskrit themes in traditional dance forms in Kerala 3. Yakṣagān 4. Gītagovinda and Odissi 5. Major agricultural and Seasonal festivals of India and the Indian Calendar – Holi, Bihu, Pongal, Makar-Saṃkrāntī, Lohari, Oṅam, Baisākhī, Śrāvaṇī Pūrṇimā etc. 12 Credits Section 'B' Social Issues Unit: I 1. Law and Change – Dharma as an even evolving Phenomenon 2. Manusmṛiti, Chapter 2, verses 6 and 12 with commentary of Medhatithi; 3. Lingat, Robert: Classical Law of India, Chapter 1, pp 3-7; tradition – pp 9-14 4. Mathur, A.D.: Medieval Hindu Law, Chapter I, pp 1-8 04 Credits Unit: II 1. Caste – Voice of Challenge 2. Traditional Varṇa hierarchy 3. Vajrasūcī of Aśvaghoṣa 04 Credits Page 33 of 39 Unit: III Identity of Women in Ancient Indian Society (6 hrs.) Draupadī's question – Mahābhārata, SabhāParvan – Dyūta Pārvan Chapter 66 – Duryodhana asks Draupadī to be brought to the court 1; Vidura's protest 2, 4; Chapter 67 – Duryodhana asks Pratikāmi to fetch Draupadī 2; Draupadī's refusal and question 5- 10, 16; Yudhiṣṭhira's response 39-41; Bhīṣma's response 47-49; Draupadī's Rejoinder 50-52; Vikarṇa's statement, Chapter 68, verse 12-17; Karṇa to Vikarṇa – 27-31, 35. 12 Credits Unit: III Struggle to Secure Women's right property (8hrs.) Yajñavalkya Smṛiti. Vyaharahadhyaya. Verse 135 with Vijñāneśvara's Commentary (Section on Patnī) 10 C

Prof. Biplab Bagdi, Prof. Swati Bhattacharya, Dr. Soma Mandal, Dr. Nitai pal

7) SANS-H-SEC-T-02 Basic Elements of Āyurveda Prescribed Course:

Total 28 Credits Section 'A' Introduction of Āyurveda 14 Credits Section 'B' Carakasamhitā – (Sūtra-sthānam) 14 Credits Unit-Wise Division Section 'A' Introduction of Āyurveda Unit: I Introduction of Āyurveda, History of Indian Medicine in the pre-caraka period, The two schools of Āyurveda: Dhanvantari and Punarvasu. 07 Credits Unit: II Main Ācāryas of Āyurveda – Caraka, Suśruta, Vāgbhaṭṭa, Mādhava, Sārṅgadhara and Bhāvamiśra 07 Credits Section 'B' Carakasamhitā – (Sūtra-sthānam) Unit: I Carakasamhitā – (Sūtra-sthānam): Division of Time and condition of nature and body in six seasons. Regimen of Fall Winter (Hemanta), Winter (Śīśira) & Spring (Vasanta) seasons. Regimen of Summer (Grīṣma), Rainy (Varṣā)

Teacher- Prof. Biplab Bagdi

MODULARISATION OF SYLLABUS

Session: 2017 – 2018

Teachers Name: Dr. Nirmalya Das

Course Name: PART I (HONS)

Time Span	Theory	Practical
July – October	<p>PAPER - I UNIT – I : : Non – Chordates</p> <ul style="list-style-type: none"> • Arthropoda: Salient features and classification up to Subclass, Circulatory system of <i>Periplaneta</i> • Mollusca: Salient features and classification up to Subclass, Respiration in <i>Pila</i> • Echinodermata: Salient features and classification up to Subclass. 	
	<p>PAPER - I UNIT – II : Chordates</p> <ul style="list-style-type: none"> • Amphibia : Salient features and classification up to living orders, Paedomorphosis with special reference to Axolotl larva • Distinguishing features : a) Non-poisonous and poisonous snakes, b) Ratitae and Carinatae, c) Cetacea and Sirenia, d) Artiodactyla and Perissodactyla 	
	<p>PAPER - I UNIT – III : Specialized features of Non-chordates</p> <ul style="list-style-type: none"> • Moulting and Metamorphosis in insects • Torsion and detorsion in Gastropoda • Water vascular system of <i>Asterias</i> 	
November – June	<p>PAPER - II UNIT – I : Cell Biology</p> <ul style="list-style-type: none"> • Cancer : Development, Causes, Types, Oncogenes, Tumor Suppressor genes • Regulation of Chromatin Structure • and Nucleosome Assembly 	
	<p>PAPER - II UNIT – II : Economic Zoology</p> <ul style="list-style-type: none"> • Life history, damage and control 	

	<p>measures of the following; <i>Chilo infuscatellus</i> (Sugarcane); <i>Anomis sabulifera</i> (Jute), <i>Scirpophaga incertulus</i> (Paddy), <i>Leucinodes orbonalis</i> (Vegetable)</p> <ul style="list-style-type: none"> • Medical and veterinary zoology : <i>Entamoeba histolytica</i>, <i>Leishmania donovani</i> 	
	<p>PAPER - II UNIT – III : Applied Zoology Aquaculture :</p> <ul style="list-style-type: none"> • Pisciculture : Stocking and management of rearing ponds, Induced breeding, Integrated fish farming, knowledge of fish seed transport, fishery by- products, fish diseases, their symptoms and remedies. • Prawn culture : Giant fresh water prawn and tiger prawn, Sources, seed, culture methods, problems. • Pearl culture : Pearl producing species, their distribution, pearl culture methods, composition and uses of pearl 	

MODULARISATION OF SYLLABUS

Session: 2017 – 2018

Teachers Name: Dr. Nirmalya Das

Course Name: PART II (HONS)

Time Span	Theory	Practical
July – October	PAPER - IV UNIT – I : Ecology <ul style="list-style-type: none"> • Soil profile 	PAPER - VI <ul style="list-style-type: none"> • Use of microscope, Camera lucida, Stage and Occular micrometer for cellular studies.
	UNIT – II : Biodiversity and Wildlife <ul style="list-style-type: none"> • Biodiversity: Definition, levels, values, causes of depletion; In-situ and Ex-situ conservation, Bio-diversity Hotspots and Mega diversity countries; Biodiversity Act; Biopiracy. • International organizations and legislations. Brief programme of CITES, WWF, MAB, IUCN, TRAFFIC, ZSI 	
	UNIT – III : Environmental Biology <ul style="list-style-type: none"> • GIS and Remote sensing – Basic concept • Biosafety of GMOs • Environmental impact assessment 	
November – June	PAPER - V UNIT – I : Ethology <ul style="list-style-type: none"> • Eusociality in Termites • Altruism, Reciprocal Altruism, Kinship, Selfishness, Cooperation • Biological rhythms 	
	PAPER - V UNIT – II : Zoogeography and Taxonomy <ul style="list-style-type: none"> • Zoo - Geographical Realm and Bathymatric (Halobiotic and Limnobiatic) Distribution of animals. • Barriers to dispersal of animals, Discontinuous distribution. • Concepts of species (Typological, Nominalistic, Biological, Evolutionary) and Speciation. • Definition of taxonomy and relationship with systematics. 	
	PAPER - V UNIT – II : Biological Techniques <ul style="list-style-type: none"> • Separation of techniques: Centrifugation (Sedimentation, 	

	density gradient) • Electron microscopy (EM)- SEM, TEM and scanning transmission EM (STEM)	
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MODULARISATION OF SYLLABUS

Session: 2017 – 2018

Teachers Name: Dr. Nirmalya Das

Course Name: PART III (HONS)

Time Span	Theory	Practical
July – October	PAPER - UNIT – I : <ul style="list-style-type: none">•	PAPER – X Group B <ul style="list-style-type: none">• Micro technique- Fixation, embedding, block making, section cutting, staining of histological material.• Identification: T.S. of mammalian ileum, liver, pancreas, lung, kidney, thyroid, ovary and testis.
	UNIT – II : <ul style="list-style-type: none">••	
	UNIT – III : <ul style="list-style-type: none">•••	
November – June	PAPER - UNIT – I : <ul style="list-style-type: none">•••	PAPER – XI Group A <ul style="list-style-type: none">• Microbiology: Staining of Bacteria from curd sample by Gram staining method.• Smear preparations and staining of the gut contents of cockroach and seminal vesicle of earthworm for Protozoan parasites. Group B <ul style="list-style-type: none">• Measurement of Blood Pressure.
	PAPER - UNIT – II : <ul style="list-style-type: none">••••	
	PAPER - UNIT – II : <ul style="list-style-type: none">••	

MODULARISATION OF SYLLABUS

Session: 2017 – 2018

Teachers Name: Dr. Nirmalya Das

Course Name: PART I (GENERAL)

Time Span	Theory	Practical
July – October	PAPER - I UNIT – I <ul style="list-style-type: none">• Classification with salient features and suitable examples of Platyhelminthes, Aschelminthes, Arthropoda, Mollusca, Echinodermata (up to Subclasses)• Types study :• <i>Paramoecium</i> – Reproduction• <i>Sycon</i> – Canal system	
	PAPER - I UNIT – II <ul style="list-style-type: none">• Retrogressive metamorphosis in <i>Ascidia</i>	
November – June	PAPER - I UNIT – III <ul style="list-style-type: none">• Nucleosome model• Cancer - Development and Causes of Cancer, Types	
	PAPER - I UNIT – IV <ul style="list-style-type: none">• Life history, Mode of infection, pathogenicity and control measures of <i>Entamoeba histolytica</i>• Parasitic adaptation of <i>Fasciola</i>, <i>Taenia</i> and <i>Ascaris</i>	

MODULARISATION OF SYLLABUS

Session: 2017 – 2018

Teachers Name: Dr. Nirmalya Das

Course Name: PART II (GENERAL)

Time Span	Theory	Practical
July – October	<p>PAPER - II UNIT – I</p> <ul style="list-style-type: none"> • Biodiversity: Definition, levels, values, causes of depletion; In-situ and Ex-situ conservation, Bio-diversity Hotspots and Mega diversity countries. 	<p>Paper – III Demonstration of dissection through computer simulation:</p> <ul style="list-style-type: none"> • <i>Pheretima</i>: Nervous system. • <i>Periplaneta</i>: Nervous system and Female reproductive system • <i>Pila</i> : Digestive system and Nervous system • Lata : Afferent branchial system, Efferent branchial system and Origin & distribution of IXth and Xth cranial nerves • <i>Tilapia</i> : Urino-genital system <p>Mounting and preparation :</p> <ul style="list-style-type: none"> • <i>Daphnia</i>, <i>Cyplops</i>, <i>Cypris</i>, <i>Mysis</i>, Mosquito larva and head of Mosquito • Placoid, Cycloid and Ctenoid scales <p>Ecology:</p> <ul style="list-style-type: none"> • Estimation of dissolved O₂ of water • Estimation of free CO₂ in water • Estimation of pH of water • Quantitative counting of zooplankton
	<p>PAPER - II UNIT – II</p> <ul style="list-style-type: none"> • Zoo-Geographical realms with predominant fauna • Biological species concept and speciation • Definition of taxonomy and relationship with systematics, Linnaean hierarchy 	
November – June	<p>PAPER - II UNIT – III</p> <ul style="list-style-type: none"> • pH and buffers - their role, physiological process and action • Structure, classification and functional significance of Proteins 	<p>Paper – III Identification with reasons :</p> <ul style="list-style-type: none"> • Non-chordates: <i>Paramecium</i>, <i>Sycon</i>, <i>Obelia</i>, <i>Fasciola</i>, <i>Ascaris</i>, <i>Hirudinaria</i>, <i>Scolopendra</i>, Horse-shoe crab, Silverfish, <i>Octopus</i>, <i>Mytilus</i>, <i>Achatina</i>, <i>Asterias</i>, <i>Balanoglossus</i>. • Chordates: <i>Ascidia</i>, <i>Branchiostoma</i>, <i>Petromyzon</i>, <i>Scoliodon</i>, <i>Exocoetus</i>, <i>Hippocampus</i>, <i>Hyla</i>, Axolotl larva, <i>Draco</i>, <i>Naja</i>, <i>Tryonix</i>, Microchiroptera. • Bones: Skull of poisonous and non-poisonous snakes, pigeon and dog. Limb and girdle bones of <i>Columba</i>
	<p>PAPER - II UNIT – IV</p> <ul style="list-style-type: none"> • Gastrulation in Chick • Implications of 	

	Developmental Biology Diagnosing Infertility -	and <i>Cavia</i> . <ul style="list-style-type: none">• Field study report: Report on the visit of at least one of the following: Zoological garden, Zoological museum, Sericultural, Agricultural, Apicultural and Fisheries Institute/Research centre /Farm, Forest ecosystem, Beach ecosystem.
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MODULARISATION OF SYLLABUS

Session: 2017 – 2018

Teachers Name: Dr. Nirmalya Das

Course Name: PART III (GENERAL)

Time Span	Theory	Practical
July – October	<p>PAPER - IV UNIT – II</p> <ul style="list-style-type: none">Histology of liver, kidney, thyroid, pancreas, testis and ovary in mammals.	<p>Paper – V Physiological experiments:</p> <ul style="list-style-type: none">Total count (TC) of human blood.Differential count (DC) of human blood.Determination of human blood pressure.Determination of haemoglobin percentage.Determination of human blood groups.
November – June	<p>PAPER - IV UNIT – III</p> <ul style="list-style-type: none">Locations, name of hormones and functions of following endocrine glands : Pituitary, Thyroid, Pancreas, Testis and OvaryMenstrual cycle of human	<p>Paper – V Identification :</p> <ul style="list-style-type: none"><i>Bombyx mori</i>, <i>Apis</i>, <i>Anomis sabulifera</i>, <i>Scirpophaga incertulus</i>, <i>Sitophilus oryzae</i>, <i>Lepisma</i>, Termite queen, <i>Macrobrachium</i>, <i>Labeo rohita</i>, <i>L. calbasu</i>, <i>Hypophthalmichthys molitrix</i>, <i>Ctenopharyngodon</i>, <i>Cyprinus carpio</i>, <i>Lates</i>, <i>Hilsa</i>, <i>Bandicota bengalensis</i> <p>Histological Slides :</p> <ul style="list-style-type: none">T.S. of mammalian small intestine, liver, pancreas, lung, kidney, ovary and testis.Whole mount of chick embryo of 24 hours, 48 hours and 72 hours.

MODULARISATION OF SYLLABUS

Session: 2018 – 2019

Teachers Name: Dr. Nirmalya Das, Associate Professor in Zoology

Course Name: Zoology Core Subject (CC), SEMESTER – I & II

Time Span	Theory	Practical
July – December (SEMESTER – I)	<p>PAPER: ZOOL – H – CC – T – 01</p> <p>UNIT – 1 : Basics of Animal Classification</p> <ul style="list-style-type: none"> • Definitions: Classification, Systematics and Taxonomy; Taxonomic Hierarchy, Taxonomic types. • Codes of Zoological Nomenclature; Principle of Priority; Synonymy and Homonymy. 	<p>1. Study of following specimens:</p> <p>a. Annelids - <i>Aphrodite, Nereis, Sabella, Chaetopterus, Pheretima, Hirudinaria</i></p> <p>b. Arthropods – <i>Limulus, Palaemon, Daphnia, Balanus, Sacculina, Cancer, Eupagurus, Scolopendra, Julus, Bombyx, Periplaneta, termites and honey bees Onychophora – Peripatus</i></p> <p>c. Molluscs - <i>Chiton, Pila, Unio, Sepia, Octopus</i></p> <p>d. Echinodermates - <i>Asterias, Echinus, Cucumaria and Antedon</i></p> <p>2. Study of digestive system, septal nephridia and pharyngeal nephridia of earthworm</p> <p>3. T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm (Diagram/study of mounted specimen)</p> <p>4. Mount of mouth parts and dissection of digestive system and nervous system of</p>
	<p>PAPER: ZOOL – H – CC – T – 01</p> <p>UNIT – 7 : Nematoda</p> <ul style="list-style-type: none"> • General characteristics and Classification up to classes • Life cycle, and pathogenicity and control measures of <i>Ascaris lumbricoides</i> and <i>Wuchereria bancrofti</i> • Parasitic adaptations in helminths 	
	<p>PAPER: ZOOL – H – CC – T – 02</p> <p>UNIT – 6 : Echinodermata</p> <ul style="list-style-type: none"> • General characteristics and Classification up to classes • Water-vascular system in Asteroidea • Larval forms in Echinodermata • Affinities with Chordates 	

		<p><i>Periplaneta</i></p> <p>5. To submit a Project Report on any related topic to larval forms (crustacean, mollusc and echinoderm)</p>
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Time Span	Theory	Practical
January – June (SEMESTER – II)	<p>PAPER: ZOOL – H – CC – T – 03</p> <p>UNIT – 4 : Ecology</p> <ul style="list-style-type: none"> • Nitrogen Cycle 	<p>1. Preparation of temporary stained squash of onion root tip to study various stages of mitosis</p> <p>2. Study of various stages of meiosis.</p>
	<p>UNIT – 4 : Applied Ecology</p> <ul style="list-style-type: none"> • Wildlife Conservation (in-situ and ex-situ conservation). • Management strategies for tiger conservation; Wild life protection act (1972). 	
	<p>PAPER: ZOOL – H – CC – T – 04</p> <p>UNIT – 3 : Cytoplasmic Organelles I</p> <ul style="list-style-type: none"> • Structure and Functions: Golgi Apparatus, Lysosomes • Protein sorting and mechanisms of vesicular transport. 	
	<p>UNIT – 5 : Cytoskeleton</p> <ul style="list-style-type: none"> • Type, structure and functions of cytoskeleton 	
	<p>UNIT – 6 : Nucleus</p> <ul style="list-style-type: none"> • Euchromatin and Heterochromatin 	

	<p>UNIT – 7 : Cell Division</p> <ul style="list-style-type: none">• Cancer (Concept of oncogenes and tumor suppressor genes with special reference to p53, Retinoblastoma and Ras and APC.	
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MODULARISATION OF SYLLABUS

Session: 2018 – 2019

Teachers Name: Dr. Nirmalya Das, Associate Professor in Zoology

Course Name: PART II (HONS)

Time Span	Theory	Practical
July – October	PAPER - IV UNIT – I : Ecology <ul style="list-style-type: none"> • Soil profile 	PAPER - VI <ul style="list-style-type: none"> • Use of microscope, Camera lucida, Stage and Occular micrometer for cellular studies.
	UNIT – II : Biodiversity and Wildlife <ul style="list-style-type: none"> • Biodiversity: Definition, levels, values, causes of depletion; In-situ and Ex-situ conservation, Bio-diversity Hotspots and Mega diversity countries; Biodiversity Act; Biopiracy. • International organizations and legislations. Brief programme of CITES, WWF, MAB, IUCN, TRAFFIC, ZSI 	
	UNIT – III : Environmental Biology <ul style="list-style-type: none"> • GIS and Remote sensing – Basic concept • Biosafety of GMOs • Environmental impact assessment 	
November – June	PAPER - V UNIT – I : Ethology <ul style="list-style-type: none"> • Eusociality in Termites • Altruism, Reciprocal Altruism, Kinship, Selfishness, Cooperation • Biological rhythms 	
	PAPER - V UNIT – II : Zoogeography and Taxonomy <ul style="list-style-type: none"> • Zoo - Geographical Realm and Bathymatric (Halobiotic and Limnobiatic) Distribution of animals. • Barriers to dispersal of animals, Discontinuous distribution. • Concepts of species (Typological, Nominalistic, Biological, Evolutionary) and Speciation. • Definition of taxonomy and relationship with systematics. 	
	PAPER - V UNIT – II : Biological Techniques <ul style="list-style-type: none"> • Separation of techniques: Centrifugation (Sedimentation, 	

	density gradient) • Electron microscopy (EM)- SEM, TEM and scanning transmission EM (STEM)	
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MODULARISATION OF SYLLABUS

Session: 2018 – 2019

Teachers Name: Dr. Nirmalya Das, Associate Professor in Zoology

Course Name: PART III (HONS)

Time Span	Theory	Practical
July – October	<p>PAPER - VIII UNIT – III : Biotechnology</p> <ul style="list-style-type: none"> • Gene Gene cloning, Cloning and Expression Vectors • cDNA library, PCR • RFLP, RAPD, Elementary idea of VNTR and DNA Fingerprinting • Gene Therapy and Genetic Counselling • DNA sequencing • Production of Transgenic animals and their applications • Bioremediation and Biosensors 	<p>PAPER – X Group B</p> <ul style="list-style-type: none"> • Micro technique- Fixation, embedding, block making, section cutting, staining of histological material. • Identification: T.S. of mammalian ileum, liver, pancreas, lung, kidney, thyroid, ovary and testis.
	<p>UNIT – IV : Biochemistry</p> <ul style="list-style-type: none"> • Structures, Classification, Properties and functional significance of Carbohydrates, Proteins and Lipids. • Carbohydrate Metabolism - Glycolysis, Citric acid cycle, Gluconeogenesis, Glycogenesis and Glycogenolysis • Lipid Metabolism - β-oxidation of fatty acids • Protein Metabolism : Transamination, Deamination and Urea cycle • Enzymes - Major classes of enzymes, Kinetics (determination of K_m and V_{max} using Michaelis-Menten and Lineweaver-Burk plots); Concept of regulation of enzyme activity (inhibition, allosterism and effects of temperature and pH) • Oxidative phosphorylation in mitochondria, Respiratory chain, ATP synthase. 	
November – June	<p>PAPER - IX UNIT – I : Histology and Histochemistry</p> <ul style="list-style-type: none"> • Histological structure and function of Liver, Kidney, Pituitary, Thyroid, 	<p>PAPER – XI Group A</p> <ul style="list-style-type: none"> • Microbiology: Staining of

	<p>Adrenal and Pancreas in Mammals</p> <ul style="list-style-type: none"> • Histochemical staining techniques for carbohydrates (Periodic acid Schiff), proteins (Mercury-bromophenol blue) and lipids (Sudan black-B), DNA, RNA, Enzyme histochemistry, immunohistochemistry, in situ hybridization • Fixation, dehydration, clearing, embedding & section cutting , Difficulties encountered during section cutting (causes and remedies) • Double staining with Haematoxylin and Eosin 	<p>Bacteria from curd sample by Gram staining method.</p> <ul style="list-style-type: none"> • Smear preparations and staining of the gut contents of cockroach and seminal vesicle of earthworm for Protozoan parasites. <p>Group B</p> <ul style="list-style-type: none"> • Measurement of Blood Pressure.
	<p>PAPER - IX UNIT – III : Physiology</p> <ul style="list-style-type: none"> • pH and buffers -their role, physiological process and action • Structure and function of Haemoglobin and its role in relation to O₂ and CO₂ transport • Physiology of urine formation – glomerular filtration, tubular function renal clearance and counter current mechanism • Physiology of synaptic and junctional nerve impulse transmission • Physiology of muscle contraction • Thermoregulation in Mammals • Physiology of Vision and Hearing in Mammals 	

MODULARISATION OF SYLLABUS

Session: 2018 – 2019

Teachers Name: Dr. Nirmalya Das, Associate Professor in Zoology

Course Name: GENERAL COURSE (CBCS), SEMESTER – I & II

Time Span	Theory	Practical
July – December (SEMESTER – I)	<p>PAPER: ZOOL – G/GE – CC – T – 01</p> <p>UNIT – 5: Platyhelminthes</p> <ul style="list-style-type: none"> Outline of classification (salient features and classification scheme upto subclass only). Life cycle and pathogenicity and control measures of <i>Fasciola hepatica</i>. 	<p>1. Identification of:</p> <p>a. Porifera - <i>Sycon, Obelia, Physalia, Corallium, Metridium, Pennatula.</i></p> <p>b. Annelids - <i>Nereis, Pheretima, Hirudinaria.</i></p> <p>c. Arthropods – <i>Limulus, Palaemon, Eupagurus, Scolopendra, Bombyx, Periplaneta</i>, termites and honey bees.</p> <p>2. Dissection of brain and pituitary of Rohu/Catla/Mrigal</p>
	<p>UNIT – 6: Nematoda</p> <ul style="list-style-type: none"> Outline of classification (salient features and classification scheme upto subclass only). Life cycle, and pathogenicity and control measures of <i>Ascaris lumbricoides</i>. 	
	<p>UNIT – 7: Annelida</p> <ul style="list-style-type: none"> Outline of classification (salient features and classification scheme upto subclass only). Excretion in Annelida through nephridia. 	
	<p>UNIT – 8: Arthropoda</p> <ul style="list-style-type: none"> Outline of classification (salient features and classification scheme upto class only). Social life in termite. 	
	<p>UNIT – 11: Protochordata</p> <ul style="list-style-type: none"> Retrogressive metamorphosis in <i>Ascidia</i>. 	
	<p>UNIT – 16: Mammalia</p> <ul style="list-style-type: none"> Outline of classification (salient features and classification scheme upto infraclass only). Exoskeletal derivatives of mammals. 	
January – June (SEMESTER – II)	<p>PAPER: ZOOL – G/GE – CC – T – 02</p> <p>UNIT – 1: Integumentary System</p> <ul style="list-style-type: none"> Structure, function and derivatives of integument in mammals 	<p>1. Study of placoid, cycloid and ctenoid scales through permanent slides/photographs</p>
	<p>UNIT – 2: Skeletal System</p> <ul style="list-style-type: none"> Jaw suspensions. 	

	<p>UNIT – 3: Digestive System</p> <ul style="list-style-type: none"> • Teeth. 	<p>2. Study of disarticulated skeleton of Toad, Pigeon and Guineapig.</p>
<p>UNIT – 4: Circulatory System</p> <ul style="list-style-type: none"> • Comparative account of heart and aortic arches 		
<p>UNIT – 5: Urinogenital System</p> <ul style="list-style-type: none"> • Succession of kidney, Types of mammalian uteri. 		

MODULARISATION OF SYLLABUS

Session: 2018 – 2019

Teachers Name: Dr. Nirmalya Das, Associate Professor in Zoology

Course Name: PART II (GENERAL)

Time Span	Theory	Practical
July – October	<p>PAPER - II UNIT – I</p> <ul style="list-style-type: none"> • Biodiversity: Definition, levels, values, causes of depletion; In-situ and Ex-situ conservation, Bio-diversity Hotspots and Mega diversity countries. 	<p>Paper – III Demonstration of dissection through computer simulation:</p> <ul style="list-style-type: none"> • <i>Pheretima</i>: Nervous system. • <i>Periplaneta</i>: Nervous system and Female reproductive system • <i>Pila</i> : Digestive system and Nervous system • <i>Lata</i> : Afferent branchial system, Efferent branchial system and Origin & distribution of IXth and Xth cranial nerves • <i>Tilapia</i> : Urino-genital system <p>Mounting and preparation :</p> <ul style="list-style-type: none"> • <i>Daphnia</i>, <i>Cyplops</i>, <i>Cypris</i>, <i>Mysis</i>, Mosquito larva and head of Mosquito • Placoid, Cycloid and Ctenoid scales <p>Ecology:</p> <ul style="list-style-type: none"> • Estimation of dissolved O₂ of water • Estimation of free CO₂ in water • Estimation of pH of water • Quantitative counting of zooplankton
	<p>PAPER - II UNIT – II</p> <ul style="list-style-type: none"> • Zoo-Geographical realms with predominant fauna • Biological species concept and speciation • Definition of taxonomy and relationship with systematics, Linnaean hierarchy 	
November – June	<p>PAPER - II UNIT – III</p> <ul style="list-style-type: none"> • pH and buffers - their role, physiological process and action • Structure, classification and functional significance of Proteins 	<p>Paper – III Identification with reasons :</p> <ul style="list-style-type: none"> • Non-chordates: <i>Paramecium</i>, <i>Sycon</i>, <i>Obelia</i>, <i>Fasciola</i>, <i>Ascaris</i>, <i>Hirudinaria</i>, <i>Scolopendra</i>, Horse-shoe crab, Silverfish, <i>Octopus</i>, <i>Mytilus</i>, <i>Achatina</i>, <i>Asterias</i>, <i>Balanoglossus</i>. • Chordates: <i>Ascidia</i>, <i>Branchiostoma</i>, <i>Petromyzon</i>, <i>Scoliodon</i>, <i>Exocoetus</i>, <i>Hippocampus</i>, <i>Hyla</i>, Axolotl larva, <i>Draco</i>, <i>Naja</i>, <i>Tryonix</i>, Microchiroptera. • Bones: Skull of poisonous and non-poisonous snakes, pigeon and dog. Limb and girdle bones of <i>Columba</i>
	<p>PAPER - II UNIT – IV</p> <ul style="list-style-type: none"> • Gastrulation in Chick • Implications of 	

	Developmental Biology Diagnosing Infertility -	and <i>Cavia</i> . <ul style="list-style-type: none">• Field study report: Report on the visit of at least one of the following: Zoological garden, Zoological museum, Sericultural, Agricultural, Apicultural and Fisheries Institute/Research centre /Farm, Forest ecosystem, Beach ecosystem.
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MODULARISATION OF SYLLABUS

Session: 2018 – 2019

Teachers Name: Dr. Nirmalya Das, Associate Professor in Zoology

Course Name: PART III (GENERAL)

Time Span	Theory	Practical
July – October	PAPER - IV UNIT – II <ul style="list-style-type: none">Histology of liver, kidney, thyroid, pancreas, testis and ovary in mammals.	Paper – V Physiological experiments: <ul style="list-style-type: none">Total count (TC) of human blood.Differential count (DC) of human blood.Determination of human blood pressure.Determination of haemoglobin percentage.Determination of human blood groups.
November – June	PAPER - IV UNIT – III <ul style="list-style-type: none">Locations, name of hormones and functions of following endocrine glands : Pituitary, Thyroid, Pancreas, Testis and OvaryMenstrual cycle of human	Paper – V Identification : <ul style="list-style-type: none"><i>Bombyx mori</i>, <i>Apis</i>, <i>Anomis sabulifera</i>, <i>Scirpophaga incertulus</i>, <i>Sitophilus oryzae</i>, <i>Lepisma</i>, Termite queen, <i>Macrobrachium</i>, <i>Labeo rohita</i>, <i>L. calbasu</i>, <i>Hypophthalmichthys molitrix</i>, <i>Ctenopharyngodon</i>, <i>Cyprinus carpio</i>, <i>Lates</i>, <i>Hilsa</i>, <i>Bandicota bengalensis</i> Histological Slides : <ul style="list-style-type: none">T.S. of mammalian small intestine, liver, pancreas, lung, kidney, ovary and testis.Whole mount of chick embryo of 24 hours, 48 hours and 72 hours.

MODULARISATION OF SYLLABUS

Session: 2019 – 2020

Teachers Name: Dr. Nirmalya Das, Associate Professor in Zoology

Course Name: Zoology Core Subject (CC), SEMESTER – III & IV

Time Span	Theory	Practical
July – December (SEMESTER – III)	<p>PAPER: ZOOL – H – CC – T – 05</p> <p>UNIT – 3 : Origin of Chordata</p> <ul style="list-style-type: none"> • Dipleurula concept and the Echinoderm theory of origin of chordates. 	<p>PAPER: ZOOL – H – CC – P – 05</p> <p>4. Amphibia: <i>Bufo</i>, <i>Hyla</i>, <i>Axolotl</i>, <i>Tylosotriton</i></p>
	<p>PAPER: ZOOL – H – CC – T – 05</p> <p>UNIT – 9 : Mammals</p> <ul style="list-style-type: none"> • Affinities of Protheria 	<p>5. Reptilia: <i>Chelone</i>, <i>Trionyx</i>, <i>Hemidactylus</i>, <i>Varanus</i>, <i>Chamaeleon</i>, <i>Ophiosaurus</i>, <i>Draco</i>, <i>Vipera</i>, <i>Naja</i>, <i>Crocodylus</i>; preparation of dichotomous key for identification of poisonous and non-poisonous snakes</p>
	<p>PAPER: ZOOL – H – CC – T – 05</p> <p>UNIT – 10 : Zoogeography</p> <ul style="list-style-type: none"> • Zoogeographical realms, Plate tectonic and Continental drift theory, distribution of birds and mammals in different realms 	<p>PAPER: ZOOL – H – CC – P – 06</p>
	<p>PAPER: ZOOL – H – CC – T – 06</p> <p>UNIT – 6 : Endocrine System</p> <ul style="list-style-type: none"> • Histology and function of pituitary, thyroid, pancreas and adrenal. • Classification of hormones; Mechanism of Hormone action. • Hypothalamus (neuroendocrine gland) - principal nuclei involved in neuroendocrine control of anterior pituitary and endocrine system. 	<p>3. Microtomy: Preparation of permanent slide of any five mammalian (Goat/white rat) tissues</p>

	<p>PAPER: ZOOL – H – CC – T – 07</p> <p>UNIT – 3 : Protein</p> <ul style="list-style-type: none"> • Amino acids Structure, Classification, General and Electro chemical properties of α-amino acids; Physiological importance of essential and non-essential amino acids. • Proteins Bonds stabilizing protein structure; Levels of organization; Protein metabolism: Transamination, Deamination, Urea cycle, Fate of C-skeleton of Glucogenic and Ketogenic amino acids 	<p>PAPER: ZOOL – H – CC – P – 07</p> <p>2. Demonstration/Virtual lab/Dry lab of paper chromatography of amino acids.</p> <p>5. Wet lab: to study the enzymatic activity of Trypsin or Lipase.</p>
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Time Span	Theory	Practical
<p>January – June (SEMESTER – IV)</p>	<p>PAPER: ZOOL – H – CC – T – 08</p> <p>UNIT – 4 : Circulatory System</p> <ul style="list-style-type: none"> • Comparative account of heart and aortic arches. 	<p>PAPER: ZOOL – H – CC – P – 08</p> <p>Dissection of Tilapia/carp: Circulatory system</p>
	<p>PAPER: ZOOL – H – CC – T – 09</p> <p>UNIT – 2 : Physiology of Respiration</p> <ul style="list-style-type: none"> • Mechanism of Respiration, Respiratory volumes and capacities, transport of Oxygen and Carbon dioxide in blood, Dissociation curves and the factors influencing it, respiratory pigments; Carbon monoxide poisoning. 	<p>PAPER: ZOOL – H – CC – P – 09</p> <p>4. Recording of blood pressure using a sphygmomanometer.</p>
	<p>PAPER: ZOOL – H – CC – T – 10</p> <p>UNIT – 6 : Cytokines</p> <ul style="list-style-type: none"> • Types, properties and functions of cytokines. 	

MODULARISATION OF SYLLABUS

Session: 2020 – 2021

Teachers Name: Dr. Nirmalya Das, Associate Professor in Zoology

Course Name: Zoology Core Subject (CC), SEMESTER – V & VI

Time Span	Theory	Practical
July – December (SEMESTER – V)	<p>PAPER: ZOOL – H – CC – T – 11</p> <p>UNIT – 6 : Gene Regulation</p> <ul style="list-style-type: none"> Regulation of Transcription in prokaryotes: <i>lac</i> operon and <i>trp</i> operon; Regulation of Transcription in eukaryotes: Activators, enhancers, silencer, repressors, miRNA mediated gene silencing. 	<p>PAPER: ZOOL – H – CC – P – 11</p> <p>1. Demonstration of polytene and lampbrush chromosome from photograph</p>
	<p>PAPER: ZOOL – H – CC – T – 11</p> <p>UNIT – 7 : DNA Repair Mechanism</p> <ul style="list-style-type: none"> Types of DNA repair mechanisms, RecBCD model in prokaryotes, nucleotide and base excision repair, SOS repair. 	<p>PAPER: ZOOL – H – CC – P – 12</p> <p>1. Chi square analysis</p>
	<p>PAPER: ZOOL – H – CC – T – 12</p> <p>UNIT – 5 : Extra-chromosomal Inheritance</p> <ul style="list-style-type: none"> Criteria for extra chromosomal inheritance. Kappa particle in <i>Paramecium</i>. 	<p>PAPER: ZOOL – H – DSE – P – 01</p> <p>1. Morphometric and meristic characters of fishes.</p>
	<p>PAPER: ZOOL – H – DSE – T – 01 (Fish & Fisheries)</p> <p>UNIT – 4 : Aquaculture</p> <ul style="list-style-type: none"> Management of finfish hatcheries; Preparation of compound diets for fish; Role of water quality in aquaculture; Fish diseases: 	<p>5. Water quality criteria for Aquaculture: Assessment of pH, DO</p>

	<p>Bacterial, viral and parasitic; Preservation and processing of harvested fish, Fishery by-products.</p>	<p>PAPER: ZOOL - H - DSE - P - 03</p> <p>2. Various types of Cameras and lenses</p>
<p>PAPER: ZOOL - H - DSE - T - 03 (Wildlife conservation and Management)</p> <p>UNIT - 7 : Man and Wildlife</p> <ul style="list-style-type: none"> • Causes and consequences of human-wildlife conflicts. <p>UNIT - 8 : Protected Areas</p> <ul style="list-style-type: none"> • National parks & sanctuaries. Tiger conservation - Tiger reserves in India; Management challenges in Tiger reserve. 		

Time Span	Theory	Practical
<p>January – June (SEMESTER – VI)</p>	<p>PAPER: ZOOL – H – CC – T – 13</p> <p>UNIT – 4 : Implications of Developmental Biology</p> <ul style="list-style-type: none"> • Teratogenesis: Teratogenic agents and their effects on embryonic development; <i>In vitro</i> fertilization. 	<p>PAPER: ZOOL – H – CC – P – 13</p> <p>4. Project report on <i>Drosophila</i> culture/aspects of chick embryo development under normal or stressed condition.</p>
	<p>PAPER: ZOOL – H – CC – T – 14</p> <p>UNIT – 5 :</p> <ul style="list-style-type: none"> • Phylogenetic trees, Construction & interpretation of Phylogenetic tree using parsimony, distance methods, Convergent & Divergent evolution. 	<p>PAPER: ZOOL – H – DSE – P – 04</p> <p>6. Study of monogenea from the gills of fresh/marine fish [Gills can be procured from fish market as by product of the industry].</p>
	<p>PAPER: ZOOL – H – DSE – T – 04 (Parasitology)</p> <p>UNIT – 5 : Parasitic Arthropods</p> <ul style="list-style-type: none"> • Biology, importance and control of ticks (Soft tick <i>Ornithodoros</i>, Hard tick <i>Ixodes</i>), mites (<i>Sarcoptes</i>). 	<p>PAPER: ZOOL – H – DSE – P – 05</p> <p>1. Dissect and display of Endocrine glands in laboratory bred rat.</p>
	<p>PAPER: ZOOL – H – DSE – T – 05 (Endocrinology)</p> <p>UNIT – 2 : Epiphysis, Hypothalamo-hypophysial Axis</p> <ul style="list-style-type: none"> • Structure of pineal gland, Secretions and their functions in biological rhythms and reproduction. • Regulation of neuroendocrine glands, Feedback mechanisms. 	<p>3. Tissue fixation, embedding in paraffin, microtomy and slide preparation of any endocrine gland</p>

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2017-2018
Course code & Title : EDU–H–CC–T–1;
Philosophical Foundation of Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p style="text-align: center;">Unit – IV : Schools of Philosophy</p> <p>A) Indian school of philosophy</p> <ul style="list-style-type: none"> • Meaning , nature and classifications in Indian schools of Philosophy • Atheistic schools of Indian Philosophy – Buddhism, Jainism and Charvaka in terms of knowledge, reality and value and educational implications 	12
	<p style="text-align: center;">Unit – II : Factors of Education</p> <p>a) Child : Meaning, characteristics and importance of child centric education</p> <p>b) Teacher : Qualities and duties of a good teacher, teacher as a motivator, mentor, facilitator and problem solver.</p>	10
	<p style="text-align: center;">Unit – III : Philosophical bases of Education</p> <p>a) Differences among Metaphysics, Epistemology and Axiology</p>	
PUJASRI CHAKRABORTY	<p>Unit – I : Education and Educational Philosophy</p> <p>a) Meaning, nature, scope and aims of education</p> <ul style="list-style-type: none"> • Education as process and product, as Science and Arts • Individualistic and socialistic aim (meaning, characteristics and difference) • Report of Delor’s Commission (UNESCO, 1996) 	7

	<p>Unit – II : Factors of Education c) Curriculum : Meaning, nature and importance d) Co-curricular activities : Meaning, nature and importance of co-curricular activity, Principles of organizing co-curricular activity e) School : Vision and functions</p>	10
	<p>Unit – III : Philosophical bases of Education a) Role of Metaphysics, Epistemology and Axiology in Education.</p>	
SUDHANGSHU MONDAL	<p>Unit – I : Education and Educational Philosophy b) Educational Philosophy : Meaning, nature, scope and relation between education and philosophy</p>	7
	<p>Unit – IV : Schools of Philosophy b) Western schools of Philosophy <ul style="list-style-type: none"> ● Meaning and Nature ● Idealism, Naturalism, Pragmatism (Aims, Curriculum, Methods, Teacher & Discipline) and educational implications. </p>	12
	<p>Unit – III : Philosophical bases of Education b) Philosophy: Concept and branches c) Concepts and nature of Metaphysics, Epistemology and Axiology</p>	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2017-2018

Course code & Title :
EDU-H-CC-T-2; Sociological Foundation of Education
Core Course (Theoretical)

Name of the Teacher	Topic	No of Classes
	<p>Unit - I : Sociology and Educational Sociology a) Sociology : Meaning, emergence, nature and scope</p>	

MD ABDUL LATIF SK	<p>b) Educational sociology : Meaning, nature, scope and importance c) Relation between Education and Sociology d) Concept of Educational Sociology and Sociology of Education</p>	14
	<p>Unit - II : Social Factors, Issues and Education a) Culture :</p> <ul style="list-style-type: none"> ● Concept, nature and elements ● Relation between individual and culture ● Relation between culture and society ● Role of education in culture <p>b) Cultural lag : Concept, characteristics, causes, education and cultural lag</p> <p>Unit - IV: Social Change and Education b) Social change in India :</p> <ul style="list-style-type: none"> · Privatization : Concept and relationship with education · Liberalization : Concept and relationship with education · Globalization : Concept and relationship with education 	10
PUJASRI CHAKRABORTY	<p>Unit - II : Social Factors, Issues and Education c) Values : Concept, nature, types and role of education d) Social issues:</p> <ul style="list-style-type: none"> ● Unemployment : Concept, types, causes, role of education in eradication of unemployment ● Poverty : Concept, causes and role of education in eradication of poverty ● Inequality : Concept, causes and role of education in eradication of inequality 	10
	<p>Unit - III : Social Groups and Education a) Social groups :</p> <ul style="list-style-type: none"> · Meaning, nature · Types: <ol style="list-style-type: none"> a) Primary Group : Meaning, characteristics and role b) Secondary Group : Meaning, characteristics and role c) Tertiary Group : Meaning, characteristics and role d) Comparison between primary group, secondary group and tertiary group <p>Unit - IV: Social Change and Education c) Social Stratification : Definition, characteristics, causes; education and social stratification</p>	12
SUDHANGSHU MONDAL	<p>Unit - III : Social Groups and Education b) Socialization :</p> <ul style="list-style-type: none"> ● Meaning and characteristics 	

	<ul style="list-style-type: none"> ● Significance of Socialization ● Factors of socialization ● Role of the family and school <p>c) Social Institutions and Agencies of Education: (i) Family, (ii) School, (iii) State, (iv) Mass media and (v) Religion</p>	12
	<p>Unit - IV: Social Change and Education</p> <p>a) Social change : Definition, characteristics, factors, constraints and education as an instrument of social change</p> <p>d) Social Mobility : Definition, characteristics, causes; education and social mobility</p>	5

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GE) SEM -1 2017-2018
EDU-H-GE-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
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Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <ul style="list-style-type: none"> ● Meaning, Nature and Scope of Education. ● Individualistic and socialistic aim. <p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy.</p> <p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p>	10
Pujasri Chakraborty	<p>Unit-IV: Great Educators and their educational philosophy</p> <p>a) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey.</p> <p>Unit-II: Factors of Education:</p> <p>b) Teacher: Qualities and duties of a good teacher.</p>	12
SUDHANGSHU MONDAL	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p>	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 1 2017-2018
EDU-G-CC-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
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Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <p>a) Meaning, Nature and Scope of Education.</p> <p>b) Individualistic and socialistic aim.</p> <p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy</p>	10
Pujasri Chakraborty	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p> <p>Unit-IV: Great Educators and their educational philosophy</p> <p>a) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey</p>	20
SUDHANGSHU MONDAL	<p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p> <p>b) Teacher: Qualities and duties of a good teacher.</p> <p>c) Curriculum: Meaning and Types. Co-curricular activities.</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-2, PAPER-3
2017-2018

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	

	<p>Unit-IV: Education in 20th Century in India (1901-1944)</p> <ul style="list-style-type: none"> • a) Educational reformer- Lord Curzon • b) National education movement- Characteristics of National Education Movement, causes • of National Education Movement, Different phases of National Education Movement, • Impact of National Education Movement. • c) Basic Education- Concept, characteristics, merits and demerits. • d) Sadlar Commission or Calcutta University Commission (1917-19) • e) Sargent Plan Report (1944). 	13
	GROUP-B	
	<p>Unit-VIII: National Policies on Education</p> <ul style="list-style-type: none"> • a) National Policy on Education (1968) • b) National Policy on Education (1986) • c) Programme of Action (POA)- 1992 • i) Ramamurti Committee (1990-91) • ii) Janardhan Reddy Committee (1992) 	12
Md Abdul latif sk	GROUP-A	
	<p>Unit-III: Education in 19th Century in India</p> <ul style="list-style-type: none"> • a) Charter Act of 1813 and its educational significance • b) Bengal Renaissance- Concept, causes and its impact on Education, contribution of Raja Rammohan Roy, Derozio and Vidyasagar in Education. • c) Wood's Despatch (1854) and its impact on education. • d) Indian Education Commission (1882-83) and its impact of education. 	12
	GROUP-B	
	<p>Unit-VII: Some Educational Bodies in West Bengal (Function only)</p> <ul style="list-style-type: none"> • a) SCERT, b) DIET, c)WBBPE, d)WBBSE, e) WBCHSE f) WBSCHSE 	10
PUJASRI CHAKRABORTY (PC)	GROUP-A	
	<p>Unit-II: Education in Medieval India-</p> <ul style="list-style-type: none"> • Aims, curriculum, teacher and methods of teaching, Institutions and Women education, • Contribution of Firoz Shah Tughlak and Akbar. 	10
	GROUP-B	

	<ul style="list-style-type: none"> • Unit-V: Education and Constitution • a) Preamble and various Articles on Education in Indian Constitution • b) RTE Act-2009 • c) Development of Education under Plan (Last two plans) 	10
Abdur rouf shamim	GROUP-A	08
	Unit-I: Education in Ancient India- <ul style="list-style-type: none"> • a) Brahmanic System of Education- Aims, curriculum, teacher and methods of teaching, Institutions, Women education and Evaluation system. • b) Buddhistic System of Education Aims, curriculum, teacher and methods of teaching, Institutions (Nalanda, Bikramsila), Women education and Evaluation system. 	
	GROUP-B	08
Unit-VI: Education Commission in post Independent India <ul style="list-style-type: none"> • a) University Education Commission (1948-49) • b) Secondary Education Commission (1952-53) • c) Indian Education Commission (1964-66) • d) Asoke Mitra Commission (1991-92) 		

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-2, PAPER-4
2017-2018

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	05
	Unit-II: Universalization of Secondary Education <ul style="list-style-type: none"> • Meaning, aims & objectives, significance; Role of RMSA, Problems 	
	GROUP-B	05
Unit-VII: Universalization of Elementary Education in UK & USA <ul style="list-style-type: none"> • In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and 		

	<ul style="list-style-type: none"> Administration including finance and Comparison with Indian Elementary Education System. 	
Md Abdul latif sk	GROUP-A	06
	Unit-III: Higher Education and RUSA <ul style="list-style-type: none"> a) Concept of Higher Education b) Role of Higher Education c) Knowledge Commission & Higher Education d) Higher Education and RUSA e) Problems of Indian Higher Education 	
	GROUP-B	06
	Unit-VI: Factors and Forces of Comparative Education: <ul style="list-style-type: none"> a) Natural Factors: Historical, Racial, Linguistic and Social Factors. b) Spiritual Factors: Religious and Philosophical Factors. c) Secular Factors: Factor of Humanism, Socialism, Nationalism and Democracy 	
PUJASRI CHAKRABORTY	GROUP-A	
	Unit-IV: Issues in Education <ul style="list-style-type: none"> a) Peace Education: Meaning, aims & objectives, need. b) Education for Sustainable Development: Meaning, aims & objectives, Role of Education in Sustainable Development. c) Inclusive Education: Meaning, Need & Govt, programme. d) Open & Distance Learning System: Meaning, Characteristics and need. e) Equality and Equity in Education: Meaning, importance, causes of inequality, Role of education to remove inequality in education. f) Women Education: Importance, problems 	
	GROUP-B	
	Unit-VIII: Universalization of Secondary Education in UK & USA <ul style="list-style-type: none"> In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Elementary Education System. 	
Abdur rouf shamim	GROUP-A	
	Unit-I: Universalization of Elementary Education	

	<ul style="list-style-type: none"> • Universalization of Elementary Education-Meaning, Constitutional Provision with special • reference to RTE Act; Aims and Objectives, Importance, Role of DPEP; SSA-SSM, • Problems. 	
	GROUP-B	
	Unit-V: Meaning, Nature, Scope, and Methods of Comparative Education <ul style="list-style-type: none"> • a) Meaning, nature, scope and importance of Comparative Education. • b) Methods of Comparative Education: <ul style="list-style-type: none"> • i) Philosophical Method • ii) Historical Method • iii) Sociological Method • iv) Psychological Method • v) Scientific Method 	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER-5 2017-2018

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	07
	Unit-IV: Evaluation Process <ul style="list-style-type: none"> • a) Evaluation Process: Concept, Types (Formative and Summative) • b) Concept of Norm-Referenced Test and Criterion Referenced Test. • c) Concept of Gradation and Credit system. 	
	GROUP-B	
	<ul style="list-style-type: none"> • Unit-VI: Descriptive Statistics • a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and • Application. 	

	<ul style="list-style-type: none"> b) Measure of Variability- Range, AD, SD and QD- their Properties, Calculation and Application) c) Percentile and Percentile Rank- Definition, Calculation, Application, Graphical Determination. 	
MD ABDUL LATIF SK	GROUP-A	06
	<ul style="list-style-type: none"> Unit-III: Characteristics of a good test a) Objectivity- Meaning and nature, b) Reliability- Concept, Nature, Causes of low Reliability, Determination of Reliability, c) Validity- Concept, and Types, d) Norms- Meaning and importance. e) Usability/Practicability 	
	GROUP-B	05
Unit-VIII: Relationship and Inferential Statistics <ul style="list-style-type: none"> a) Bivariate Distribution- Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation, Scatter Diagram. b) Parametric and Non-Parametric Test- (only Concept and Uses). 		
Pujashri chakraborti	GROUP-A	05
	Unit-I: Measurement and Evaluation in Education <ul style="list-style-type: none"> a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio. 	
	GROUP-B	
<ul style="list-style-type: none"> Unit-VII: Normal Distribution and Derived Score a) Concept of Normal Distribution- Properties and Uses of NPC. Divergence from NormalitySkewness and Kurtosis. b) Derived Scores- Z-Score, Standard Score (Meaning, Calculation and Uses). 		
MD ABDUL LATIF SK	GROUP-A	08
	Unit-II: Tools and Techniques of Evaluation <ul style="list-style-type: none"> a) Tools: o Tests- Essay type and Objective type; Short answer type and Oral type. 	

SUDHANGSHU MONDAL	<ul style="list-style-type: none"> • o Personality Test- Rorschach Ink Blot Test • o Interest Test- Kuder Test • o CRC • b) Techniques: • Observation, Self-reporting (Interview, Questionnaire) 	07
	GROUP-B	
	<ul style="list-style-type: none"> • Unit-V: Educational Statistics (12) • a) Concept, Scope and Need of Educational Statistics • b) Organization and Tabulation of Data- Frequency distribution table • c) Graphical Representation of Data- Pie diagram, Bar graph, Histogram, Frequency Polygon • and Ogive (Using 75% rule) 	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER 6, 2017-2018
Educational Management and Educational Technology

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	07
	<ul style="list-style-type: none"> • Unit-IV: Functions of Various Administrative Bodies • a) UGC, b) NAAC, c) NCERT, d) NCTE, e) DEB, f) CABE, g) NUEPA 	
	GROUP-B	

	<p>Unit-VIII: Phases, Levels, and Models of Teaching</p> <ul style="list-style-type: none"> a) Phases of Teaching: Pre-active, Inter-active & Post-active. b) Levels of Teaching: Memory, Understanding, Reflective. c) Models of Teaching: Concept, Components, Families, Glaser's Basic Teaching Model, Bruner's Concept Attainment Model. 	10
Pujashri chakraborti	GROUP-A	06
	<ul style="list-style-type: none"> Unit-II: Educational Administration and Supervision a) Educational Administration: Meaning and Function. b) Supervision: Meaning, Purpose; Distinguish between Supervision and Inspection. c) Factors affecting Managerial behavior of teachers: Personal, Social, Cultural, Political and Institutional 	
	GROUP-B	
	<p>Unit-VII: Instructional Technology</p> <ul style="list-style-type: none"> a) Mass Instructional Technology- Seminar, Discussion, Panel Discussion. Team teaching b) Personalized Instructional Techniques- Programmed Instruction- meaning, principles, types, merits and demerits c) Computers and its role in educational instruction 	05
MD ABDUL LATIF SK	GROUP-A	05
	<ul style="list-style-type: none"> Unit-I: Concept of Educational Management a) Educational Management: Meaning, Nature, Scope, Function and Needs. b) Types of Educational Management: Centralization, Decentralization, Autocratic, Democratic and Laissez-fair. 	
	GROUP-B	
	<ul style="list-style-type: none"> Unit-V: Educational Technology a) Meaning, Nature, Need and Scope of Educational Technology b) Technology in Education and Technology of Education 	04

	<ul style="list-style-type: none"> c) Approaches of ET: Hardware, Software, and System 	
SUDHANGSHU MONDAL	GROUP-A	07
	<ul style="list-style-type: none"> Unit-III: Educational Planning a) Educational Planning: Meaning, Needs and Significance. b) Types of Educational Planning; Strategies and Steps in Educational Planning. c) Brief outline of the last Five Year Plan in Primary and Secondary Education. 	
	GROUP-B	
	Unit-VI: Classroom Communication and Media used <ul style="list-style-type: none"> a) Meaning, Nature, Types, and Components of Communication b) Barriers of classroom communication and strategies of overcoming barriers in communication c) Media used in education: Audio (Radio), Visual (Projector), Audio-visual (TV)- merits and demerits 	06

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER-7, 2017-2018
Educational Guidance and Curriculum Construction

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	07
	Unit-III: Tools and Techniques of Guidance and Counseling	

	<ul style="list-style-type: none"> • a) Basic data necessary for Educational Guidance- Pupils abilities, Aptitudes, Interests and • Attitudes, Educational Attainments and Personality Traits. • b) Measurement of Intelligence, Personality and Motivation • c) Difference between Guidance, Counseling and Teaching 	04
	GROUP-B	
	Unit-VI: Concept of Curriculum Framework <ul style="list-style-type: none"> • a) Curriculum Framework: Meaning • b) NCF-2005 • c) Principles of Curriculum Construction 	
Pujashri chakraborti	GROUP-A	07
	<ul style="list-style-type: none"> • Unit-II: Concept of Counseling (14) • a) Meaning, Nature, Scope, and Importance of Counseling • b) Types of Counseling i) Directive: Meaning, Characteristics, Purpose & Functions. • ii) Non-directive: Meaning, Characteristics, Purpose & Functions. • iii) Eclectic: Meaning, Characteristics, Purpose & Functions. • c) Steps of Counseling; Characteristics of good Counselor. 	
	GROUP-B	04
	Unit-VII: Curriculum Evaluation <ul style="list-style-type: none"> • a) Meaning & Importance of Curriculum Evaluation • b) Formative and Summative Evaluation of Curriculum: Concept & Distinguish between them 	
MD ABDUL LATIF SK	GROUP-A	05
	<ul style="list-style-type: none"> • Unit-IV: Mental Health and Psychodynamics of Adjustment • a) Concept of Mental Health and Mental Hygiene • b) Causes and Symptoms of Maladjustment. • c) Frustration and Conflicts • d) Adjustment Mechanisms. 	
	GROUP-B	08
Unit-VII: Curriculum Evaluation		

	<ul style="list-style-type: none"> a) Meaning & Importance of Curriculum Evaluation b) Formative and Summative Evaluation of Curriculum: Concept & Distinguish between them. 	
SUDHANGSHU MONDAL	GROUP-A	06
	Unit-I: Concept of Guidance <ul style="list-style-type: none"> a) Meaning, Nature, Scope, and Importance of Guidance. b) Different Types of Guidance <ul style="list-style-type: none"> i) Educational: Meaning, Characteristics, Purpose & Functions. ii) Vocational: Meaning, Characteristics, Purpose & Functions. iii) Personal: Meaning, Characteristics, Purpose & Functions. c) Guidance at different stages of Education with special emphasis on Secondary stage of Education. 	
	GROUP-B	
	Unit-V: Introduction of Curriculum <ul style="list-style-type: none"> a) Meaning, Nature, Scope and functions of Curriculum b) Determinants of Curriculum c) Difference and Relation between Curriculum and Syllabus. d) Different Types of Curriculum e) Co-curricular Activities f) Bases of Curriculum: Philosophical, Sociological & Psychological. 	08

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER-8 2017-2018
Educational Research and Practical

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	08
	Unit-III: Basic Ideas of Research (16) <ul style="list-style-type: none"> • Characteristics of a good Research Problem • Review of related Literature – purpose • Variable – dependent and independent • Research Hypothesis – meaning, nature and types • Population , Sample and sampling- meaning 	
	GROUP-B	
	Practical	
Pujashri chakraborti	GROUP-A	10
	<ul style="list-style-type: none"> • Unit-I: Research-meaning and nature: (8) • Meaning and nature of Research • Sources of Knowledge (Authority, Tradition, Personal Experience, Deduction, Induction.) • Need of Research in Education 	
	GROUP-B	
	Practical	
MD ABDUL LATIF SK	GROUP-A	08
	Unit-III: Basic Ideas of Research (16) Characteristics of a good Research Problem Review of related Literature – purpose Variable – dependent and independent Research Hypothesis – meaning, nature and types Population , Sample and sampling- meaning	
	GROUP-B	
	Practical	
SUDHANGSHU MONDAL	GROUP-A	06

	Unit-IV: Research Data: (12) <ul style="list-style-type: none"> • Qualitative and Quantitative data • Tool of data collection- characteristics, merits and demerits of questionnaire and interview • Descriptive and Inferential statistics (meaning only) • Steps of testing hypotheses 	
	GROUP-B	
	Practical	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (GENERAL) 2017-2018

Part 1	Teacher	Year	No of class	Year	No of classes
Paper-1	MD ABDUL LATIF SK (LS)	CONCEPT & SCOPE OF Education	6	Education & Economic Growth	10

	Abdur Rouf Shamim	Major philosophical theories	7	Signification of philosophy	7
	SUDHANGSHU MONDAL	Factors of education Amis & function		Sociological basis of Education	10
Part 2		Memory	10	Intelligence	10
	SUDHANGSHU MONDAL	Educational psychology	6	Development	6
	Abdur Rouf Shamim	learning	5	heredity	7
	MD ABDUL LATIF SK	Development	10	Environment	5

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-II 2017-2018
EDU-H-CC-T-3: Psychological Foundation of Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive and Language development of Infancy, Childhood and Adolescence period and respective educational programmes. c) Piaget's theory of Cognitive Development	12
	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Measurement of Personality- projective test d) Individual differences –meaning and implications.	
PUJASRI CHAKRABORTY	Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Trial and Error, Insightful Learning c) Transfer of Learning: Concept & Types. d) Motivation: Types, factors and Role of Motivation in learning e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes	10
	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications- Spearman, Thurston, Guilford and Gardner; Measurement of Intelligence- verbal and non-verbal b) Creativity: meaning, nature, factors, and nurturing.	
SUDHANGSHU MONDAL		12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-II 2017-2018
EDU-H-CC-T-4: History of Education in Colonial India

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p>Unit: I: Education in 19th Century in India</p> <p>a) Charter Act of 1813 b) Oriental –Occidental Controversy c) Macaulay’s Minute d) Bentinck’s Declaration e) Wood’s Despatch: Context, Recommendations, Criticism and Educational Significance f) Indian Education Commission: Background, Composition of the Commission, Criticism and Educational Significance</p>	10
PUJASRI CHAKRABORTY	<p>Unit: II: Bengal Renaissance and Its Influence on Education</p> <p>a) Concept Bengal Renaissance b) Causes of Bengal Renaissance c) Characteristics of Bengal Renaissance d) Contribution of Raja Rammohan Roy, Derozio and Vidyasagar in Education. e) Impact of Bengal Renaissance on Education,</p>	12
MD ABDUL LATIF SK	<p>Unit: III: Educational policy of Lord Curzon and National Education Movement</p> <p>a) Simla Conference 1901 b) The Indian Universities Commission 1902 c) The Indian Universities Act 1904 d) Govt. of India’s Resolution on Indian Educational Policy 1904 e) Curzon contribution in Indian Education</p> <p>National Education Movement</p> <p>a) Characteristics, of National Education Movement, b) Causes of National Education Movement c) Objective of National Education Movement d) Different Phases of National Education Movement e) Causes of Failure of the Movement f) Influence of the National Education Movement on Future Development of Indian Education</p>	12

<p>PUJASRI CHAKRABORTY</p>	<p>Unit: IV: Commission in between 1st and 2nd world war The Calcutta University Commission (Sadler Commission) 1917-1919 a) Context b) Recommendation c) Criticism d) Results Basic Education: a) Concepts b) Characteristics Merits & Demerits The post –war plan of educational development (Sargent Plan) 1944 a) Context b) Objective c) Recommendations d) Criticise e) Results</p>	<p>12</p>
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GE) SEM 2 2017-2018
EDU-H-GE-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
<p>Md Abdul Latif Sk</p>	<p>Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget’s view) of Infancy, Childhood and Adolescence period and respective educational programmes.</p>	<p>15</p>
<p>Pujasri Chakraborty</p>	<p>Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning</p>	<p>12</p>

	<p>c) Transfer of Learning: Concept & Types (Positive, Negative & Zero)</p> <p>d) Motivation: Types, factors and Role of Motivation in learning</p> <p>e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes.</p>	
Md Abdul Latif Sk	<p>Unit-III: Intelligence & Creativity</p> <p>a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston.</p> <p>b) Creativity: meaning, factors, and nurturing.</p>	10
Pujasri Chakraborty	<p>Unit-IV: Personality</p> <p>a) Definition; Heredity & Environment as determinants of Personality.</p> <p>b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL/PCC) SEM 2 2017-2018
EDU-G-CC-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>Unit-II: Learning</p> <p>a) Definition and characteristics of Learning; Factors influencing learning</p> <p>b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning</p> <p>c) Transfer of Learning: Concept & Types (Positive, Negative & Zero)</p> <p>d) Motivation: Types, factors and Role of Motivation in learning</p>	15

	e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes	
MD ABDUL LATIF SK	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston. b) Creativity: meaning, factors, and nurturing.	12
PUJASRI CHAKRABORTY	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget's view) of Infancy, Childhood and Adolescence period and respective educational programmes.	15
MD ABDUL LATIF SK	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications.	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-2, PAPER-3
2017-2018

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	13
	Unit-IV: Education in 20th Century in India (1901-1944) <ul style="list-style-type: none"> • a) Educational reformer- Lord Curzon • b) National education movement- Characteristics of National Education Movement, causes 	

	<ul style="list-style-type: none"> • of National Education Movement, Different phases of National Education Movement, • Impact of National Education Movement. • c) Basic Education- Concept, characteristics, merits and demerits. • d) Sadlar Commission or Calcutta University Commission (1917-19) • e) Sargent Plan Report (1944). 	
	GROUP-B	
	Unit-VIII: National Policies on Education <ul style="list-style-type: none"> • a) National Policy on Education (1968) • b) National Policy on Education (1986) • c) Programme of Action (POA)- 1992 • i) Ramamurti Committee (1990-91) • ii) Janardhan Reddy Committee (1992) 	12
Md Abdul latif sk	GROUP-A	
	Unit-III: Education in 19th Century in India <ul style="list-style-type: none"> • a) Charter Act of 1813 and its educational significance • b) Bengal Renaissance- Concept, causes and its impact on Education, contribution of Raja Rammohan Roy, Derozio and Vidyasagar in Education. • c) Wood's Despatch (1854) and its impact on education. • d) Indian Education Commission (1882-83) and its impact of education. 	12
	GROUP-B	
	Unit-VII: Some Educational Bodies in West Bengal (Function only) <ul style="list-style-type: none"> • a) SCERT, b) DIET, c)WBBPE, d)WBBSE, e) WBCHSE f) WBSCHSE 	10
PUJASRI CHAKRABORTY (PC)	GROUP-A	
	Unit-II: Education in Medieval India- <ul style="list-style-type: none"> • Aims, curriculum, teacher and methods of teaching, Institutions and Women education, • Contribution of Firoz Shah Tughlak and Akbar. 	10
	GROUP-B	
	<ul style="list-style-type: none"> • Unit-V: Education and Constitution • a) Preamble and various Articles on Education in Indian Constitution • b) RTE Act-2009 • c) Development of Education under Plan (Last two plans 	10
Abdur rouf shamim	GROUP-A	

	Unit-I: Education in Ancient India- <ul style="list-style-type: none"> • a) Brahmanic System of Education- • Aims, curriculum, teacher and methods of teaching, Institutions, Women education and Evaluation system. • b) Buddhistic System of Education Aims, curriculum, teacher and methods of teaching, Institutions (Nalanda, Bikramsila), • Women education and Evaluation system. 	08
	GROUP-B	
	Unit-VI: Education Commission in post Independent India <ul style="list-style-type: none"> • a) University Education Commission (1948-49) • b) Secondary Education Commission (1952-53) • c) Indian Education Commission (1964-66) • d) Asoke Mitra Commission (1991-92) 	08

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-2, PAPER-4
2017-2018

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	05
	Unit-II: Universalization of Secondary Education <ul style="list-style-type: none"> • Meaning, aims & objectives, significance; Role of RMSA, Problems 	
	GROUP-B	05
	Unit-VII: Universalization of Elementary Education in UK & USA <ul style="list-style-type: none"> • In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and • Administration including finance and Comparison with Indian Elementary Education System. 	
Md Abdul latif sk	GROUP-A	06
	Unit-III: Higher Education and RUSA <ul style="list-style-type: none"> • a) Concept of Higher Education • b) Role of Higher Education 	

	<ul style="list-style-type: none"> c) Knowledge Commission & Higher Education d) Higher Education and RUSA e) Problems of Indian Higher Education 	06
	<p style="text-align: center;">GROUP-B</p> <p>Unit-VI: Factors and Forces of Comparative Education:</p> <ul style="list-style-type: none"> a) Natural Factors: Historical, Racial, Linguistic and Social Factors. b) Spiritual Factors: Religious and Philosophical Factors. c) Secular Factors: Factor of Humanism, Socialism, Nationalism and Democracy 	
PUJASRI CHAKRABORTY	GROUP-A	
	<p>Unit-IV: Issues in Education</p> <ul style="list-style-type: none"> a) Peace Education: Meaning, aims & objectives, need. b) Education for Sustainable Development: Meaning, aims & objectives, Role of Education in Sustainable Development. c) Inclusive Education: Meaning, Need & Govt, programme. d) Open & Distance Learning System: Meaning, Characteristics and need. e) Equality and Equity in Education: Meaning, importance, causes of inequality, Role of education to remove inequality in education. f) Women Education: Importance, problems 	
	GROUP-B	
	<p>Unit-VIII: Universalization of Secondary Education in UK & USA</p> <ul style="list-style-type: none"> In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Elementary Education System. 	
Abdur rouf shamim	GROUP-A	
	<p>Unit-I: Universalization of Elementary Education</p> <ul style="list-style-type: none"> Universalization of Elementary Education- Meaning, Constitutional Provision with special reference to RTE Act; Aims and Objectives, Importance, Role of DPEP; SSA-SSM, Problems. 	
	GROUP-B	

	<p>Unit-V: Meaning, Nature, Scope, and Methods of Comparative Education</p> <ul style="list-style-type: none"> • a) Meaning, nature, scope and importance of Comparative Education. • b) Methods of Comparative Education: <ul style="list-style-type: none"> • i) Philosophical Method • ii) Historical Method • iii) Sociological Method • iv) Psychological Method • v) Scientific Method 	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER-5 2017-2018

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	07
	<p>Unit-IV: Evaluation Process</p> <ul style="list-style-type: none"> • a) Evaluation Process: Concept, Types (Formative and Summative) • b) Concept of Norm-Referenced Test and Criterion Referenced Test. • c) Concept of Gradation and Credit system. 	
	GROUP-B	08
	<ul style="list-style-type: none"> • Unit-VI: Descriptive Statistics • a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application. • b) Measure of Variability- Range, AD, SD and QD- their Properties, Calculation and Application) • c) Percentile and Percentile Rank- Definition, Calculation, Application, Graphical • Determination. 	
	GROUP-A	06
	<ul style="list-style-type: none"> • Unit-III: Characteristics of a good test • a) Objectivity- Meaning and nature, • b) Reliability- Concept, Nature, Causes of low Reliability, Determination of Reliability, • c) Validity- Concept, and Types, • d) Norms- Meaning and importance. • e) Usability/Practicability 	
	GROUP-B	

MD ABDUL LATIF SK	Unit-VIII: Relationship and Inferential Statistics <ul style="list-style-type: none"> • a) Bivariate Distribution- Concept of Correlation – Computation of Co-efficient of Correlation • by Rank difference method and Product moment method, Interpretation of Co-efficient of • Correlation, Scatter Diagram. • b) Parametric and Non-Parametric Test- (only Concept and Uses). 	05
Pujashri chakraborti	GROUP-A	05
	Unit-I: Measurement and Evaluation in Education <ul style="list-style-type: none"> • a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. • b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio. 	
	GROUP-B	
<ul style="list-style-type: none"> • Unit-VII: Normal Distribution and Derived Score • a) Concept of Normal Distribution- Properties and Uses of NPC. Divergence from Normality Skewness and Kurtosis. • b) Derived Scores- Z-Score, Standard Score (Meaning, Calculation and Uses). 		
SUDHANGSHU MONDAL	GROUP-A	08
	Unit-II: Tools and Techniques of Evaluation <ul style="list-style-type: none"> • a) Tools: <ul style="list-style-type: none"> • o Tests- Essay type and Objective type; Short answer type and Oral type. • o Personality Test- Rorschach Ink Blot Test • o Interest Test- Kuder Test • o CRC • b) Techniques: <ul style="list-style-type: none"> • Observation, Self-reporting (Interview, Questionnaire) 	
	GROUP-B	
<ul style="list-style-type: none"> • Unit-V: Educational Statistics (12) • a) Concept, Scope and Need of Educational Statistics • b) Organization and Tabulation of Data- Frequency distribution table • c) Graphical Representation of Data- Pie diagram, Bar graph, Histogram, Frequency Polygon • and Ogive (Using 75% rule) 	07	

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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER 6, 2017-2018
Educational Management and Educational Technology

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	07
	<ul style="list-style-type: none"> • Unit-IV: Functions of Various Administrative Bodies • a) UGC, b) NAAC, c) NCERT, d) NCTE, e) DEB, f) CABE, g) NUEPA 	
	GROUP-B	10
	Unit-VIII: Phases, Levels, and Models of Teaching <ul style="list-style-type: none"> • a) Phases of Teaching: Pre-active, Inter-active & Post-active. • b) Levels of Teaching: Memory, Understanding, Reflective. • c) Models of Teaching: Concept, Components, Families, Glaser’s Basic Teaching Model, • Bruner’s Concept Attainment Model. 	
Pujashri chakraborti	GROUP-A	06
	<ul style="list-style-type: none"> • Unit-II: Educational Administration and Supervision • a) Educational Administration: Meaning and Function. • b) Supervision: Meaning, Purpose; Distinguish between Supervision and Inspection. • c) Factors affecting Managerial behavior of teachers: Personal, Social, Cultural, Political and • Institutional 	
	GROUP-B	05
	Unit-VII: Instructional Technology <ul style="list-style-type: none"> • a) Mass Instructional Technology- Seminar, Discussion, Panel Discussion. Team teaching 	

	<ul style="list-style-type: none"> • b) Personalized Instructional Techniques- Programmed Instruction- meaning, principles, types, • merits and demerits • c) Computers and its role in educational instruction 	
MD ABDUL LATIF SK	GROUP-A	05
	<ul style="list-style-type: none"> • Unit-I: Concept of Educational Management • a) Educational Management: Meaning, Nature, Scope, Function and Needs. • b) Types of Educational Management: Centralization, Decentralization, Autocratic, Democratic • and Laissez-fair. 	
	GROUP-B	
	<ul style="list-style-type: none"> • Unit-V: Educational Technology • a) Meaning, Nature, Need and Scope of Educational Technology • b) Technology in Education and Technology of Education • c) Approaches of ET: Hardware, Software, and System 	04
SUDHANGSHU MONDAL	GROUP-A	07
	<ul style="list-style-type: none"> • Unit-III: Educational Planning • a) Educational Planning: Meaning, Needs and Significance. • b) Types of Educational Planning; Strategies and Steps in Educational Planning. • c) Brief outline of the last Five Year Plan in Primary and Secondary Education. 	
	GROUP-B	
	<p>Unit-VI: Classroom Communication and Media used</p> <ul style="list-style-type: none"> • a) Meaning, Nature, Types, and Components of Communication • b) Barriers of classroom communication and strategies of overcoming barriers in communication • c) Media used in education: Audio (Radio), Visual (Projector), Audio-visual (TV)- merits and • demerits 	06

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER-7, 2017-2018
Educational Guidance and Curriculum Construction

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	07
	Unit-III: Tools and Techniques of Guidance and Counseling <ul style="list-style-type: none"> • a) Basic data necessary for Educational Guidance- Pupils abilities, Aptitudes, Interests and • Attitudes, Educational Attainments and Personality Traits. • b) Measurement of Intelligence, Personality and Motivation • c) Difference between Guidance, Counseling and Teaching 	
	GROUP-B	
	Unit-VI: Concept of Curriculum Framework <ul style="list-style-type: none"> • a) Curriculum Framework: Meaning • b) NCF-2005 • c) Principles of Curriculum Construction 	04
Pujashri chakraborti	GROUP-A	07
	<ul style="list-style-type: none"> • Unit-II: Concept of Counseling (14) • a) Meaning, Nature, Scope, and Importance of Counseling • b) Types of Counseling i) Directive: Meaning, Characteristics, Purpose & Functions. • ii) Non-directive: Meaning, Characteristics, Purpose & Functions. • iii) Eclectic: Meaning, Characteristics, Purpose & Functions. 	

	<ul style="list-style-type: none"> c) Steps of Counseling; Characteristics of good Counselor. 	
	GROUP-B	
	Unit-VII: Curriculum Evaluation <ul style="list-style-type: none"> a) Meaning & Importance of Curriculum Evaluation b) Formative and Summative Evaluation of Curriculum: Concept & Distinguish between them 	04
MD ABDUL LATIF SK	GROUP-A	05
	<ul style="list-style-type: none"> Unit-IV: Mental Health and Psychodynamics of Adjustment a) Concept of Mental Health and Mental Hygiene b) Causes and Symptoms of Maladjustment. c) Frustration and Conflicts d) Adjustment Mechanisms. 	
	GROUP-B	
	Unit-VII: Curriculum Evaluation <ul style="list-style-type: none"> a) Meaning & Importance of Curriculum Evaluation b) Formative and Summative Evaluation of Curriculum: Concept & Distinguish between them. 	08
SUDHANGSHU MONDAL	GROUP-A	06
	Unit-I: Concept of Guidance <ul style="list-style-type: none"> a) Meaning, Nature, Scope, and Importance of Guidance. b) Different Types of Guidance i) Educational: Meaning, Characteristics, Purpose & Functions. ii) Vocational: Meaning, Characteristics, Purpose & Functions. iii) Personal: Meaning, Characteristics, Purpose & Functions. c) Guidance at different stages of Education with special emphasis on Secondary stage of Education. 	
	GROUP-B	
	Unit-V: Introduction of Curriculum <ul style="list-style-type: none"> a) Meaning, Nature, Scope and functions of Curriculum b) Determinants of Curriculum c) Difference and Relation between Curriculum and Syllabus. d) Different Types of Curriculum 	08

	e) Co-curricular Activities f) Bases of Curriculum: Philosophical, Sociological & Psychological.	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER-8 2017-2018
Educational Research and Practical

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	08
	Unit-III: Basic Ideas of Research (16) <ul style="list-style-type: none"> • Characteristics of a good Research Problem • Review of related Literature – purpose • Variable – dependent and independent • Research Hypothesis – meaning, nature and types • Population , Sample and sampling- meaning 	
	GROUP-B	
	Practical	
Pujashri chakraborti	GROUP-A	10
	<ul style="list-style-type: none"> • Unit-I: Research-meaning and nature: (8) • Meaning and nature of Research • Sources of Knowledge (Authority, Tradition, Personal Experience, Deduction, Induction.) • Need of Research in Education 	
	GROUP-B	

	Practical	
MD ABDUL LATIF SK	GROUP-A	08
	Unit-III: Basic Ideas of Research (16) Characteristics of a good Research Problem Review of related Literature – purpose Variable – dependent and independent Research Hypothesis – meaning, nature and types Population , Sample and sampling- meaning	
	GROUP-B	
	Practical	
SUDHANGSHU MONDAL	GROUP-A	06
	Unit-IV: Research Data: (12) <ul style="list-style-type: none"> • Qualitative and Quantitative data • Tool of data collection- characteristics, merits and demerits of questionnaire and interview • Descriptive and Inferential statistics (meaning only) • Steps of testing hypotheses 	
	GROUP-B	
	Practical	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (GENERAL) 2017-2018

Part 1	Teacher	Year	No of class	Year	No of clas s
Paper-1	MD ABDUL LATIF SK (LS)	CONCEPT & SCOPE OF Education	6	Education &Economic Growth	10
	Abdur Rouf Shamim	Major philosophical theories	7	Signification of philosophy	7
	SUDHANGSHU MONDAL	Factors of education Amis & function		Sociological basis of Education	10
Part 2		Memory	10	Intelligence	10
	SUDHANGSHU MONDAL	Educational psychology	6	Development	6
	Abdur Rouf Shamim	learning	5	heredity	7
	MD ABDUL LATIF SK	Development	10	Environment	5

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2018 - 2019
Course code & Title : EDU–H–CC–T–1;
Philosophical Foundation of Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p style="text-align: center;">Unit – IV : Schools of Philosophy</p> <p>A) Indian school of philosophy</p> <ul style="list-style-type: none"> • Meaning , nature and classifications in Indian schools of Philosophy • Atheistic schools of Indian Philosophy – Buddhism, Jainism and Charvaka in terms of knowledge, reality and value and educational implications 	12
	<p style="text-align: center;">Unit – II : Factors of Education</p> <p>c) Child : Meaning, characteristics and importance of child centric education</p> <p>d) Teacher : Qualities and duties of a good teacher, teacher as a motivator, mentor, facilitator and problem solver.</p>	10
	<p style="text-align: center;">Unit – III : Philosophical bases of Education</p> <p>b) Differences among Metaphysics, Epistemology and Axiology</p>	

PUJASRI CHAKRABORTY	Unit – I : Education and Educational Philosophy b) Meaning, nature, scope and aims of education <ul style="list-style-type: none"> ● Education as process and product, as Science and Arts ● Individualistic and socialistic aim (meaning, characteristics and difference) ● Report of Delor’s Commission (UNESCO, 1996) 	7
	Unit – II : Factors of Education c) Curriculum : Meaning, nature and importance d) Co-curricular activities : Meaning, nature and importance of co-curricular activity, Principles of organizing co-curricular activity e) School : Vision and functions	10
	Unit – III : Philosophical bases of Education d) Role of Metaphysics, Epistemology and Axiology in Education.	
SUDHANGSHU MONDAL	Unit – I : Education and Educational Philosophy b) Educational Philosophy : Meaning, nature, scope and relation between education and philosophy	7
	Unit – IV : Schools of Philosophy b) Western schools of Philosophy <ul style="list-style-type: none"> ● Meaning and Nature ● Idealism, Naturalism, Pragmatism (Aims, Curriculum, Methods, Teacher & Discipline) and educational implications. 	12
	Unit – III : Philosophical bases of Education e) Philosophy: Concept and branches f) Concepts and nature of Metaphysics, Epistemology and Axiology	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2018 - 2019
Course code & Title :

**EDU-H-CC-T-2; Sociological Foundation of Education
Core Course (Theoretical)**

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit - I : Sociology and Educational Sociology a) Sociology : Meaning, emergence, nature and scope b) Educational sociology : Meaning, nature, scope and importance c) Relation between Education and Sociology d) Concept of Educational Sociology and Sociology of Education	14
	Unit - II : Social Factors, Issues and Education a) Culture : <ul style="list-style-type: none"> ● Concept, nature and elements ● Relation between individual and culture ● Relation between culture and society ● Role of education in culture b) Cultural lag : Concept, characteristics, causes, education and cultural lag Unit - IV: Social Change and Education b) Social change in India : <ul style="list-style-type: none"> · Privatization : Concept and relationship with education · Liberalization : Concept and relationship with education · Globalization : Concept and relationship with education 	10
PUJASRI CHAKRABORTY	Unit - II : Social Factors, Issues and Education c) Values : Concept, nature, types and role of education d) Social issues: <ul style="list-style-type: none"> ● Unemployment : Concept, types, causes, role of education in eradication of unemployment ● Poverty : Concept, causes and role of education in eradication of poverty ● Inequality : Concept, causes and role of education in eradication of inequality 	10
	Unit - III : Social Groups and Education a) Social groups : <ul style="list-style-type: none"> · Meaning, nature · Types: <ul style="list-style-type: none"> e) Primary Group : Meaning, characteristics and role f) Secondary Group : Meaning, characteristics and role g) Tertiary Group : Meaning, characteristics and role h) Comparison between primary group, secondary group and tertiary group 	12

	<p>Unit - IV: Social Change and Education c) Social Stratification : Definition, characteristics, causes; education and social stratification</p>	
SUDHANGSHU MONDAL	<p>Unit - III : Social Groups and Education b) Socialization :</p> <ul style="list-style-type: none"> ● Meaning and characteristics ● Significance of Socialization ● Factors of socialization ● Role of the family and school <p>c) Social Institutions and Agencies of Education: (i) Family, (ii) School, (iii) State, (iv) Mass media and (v) Religion</p>	12
	<p>Unit - IV: Social Change and Education b) Social change : Definition, characteristics, factors, constraints and education as an instrument of social change</p> <p>d) Social Mobility : Definition, characteristics, causes; education and social mobility</p>	5

**Syllabus Modularization of Education Department
Education (GE) SEM -1 2018 - 2019**

EDU-H-GE-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <ul style="list-style-type: none"> ● Meaning, Nature and Scope of Education. ● Individualistic and socialistic aim. <p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy.</p> <p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p>	10
Pujasri Chakraborty	<p>Unit-IV: Great Educators and their educational philosophy</p> <p>b) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey.</p> <p>Unit-II: Factors of Education:</p> <p>b) Teacher: Qualities and duties of a good teacher.</p>	12
SUDHANGSHU MONDAL	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p>	12

Syllabus Modularization of Education Department
Education (GENERAL) SEM 1 2018 - 2019
EDU-G-CC-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <p>a) Meaning, Nature and Scope of Education.</p> <p>b) Individualistic and socialistic aim.</p> <p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy</p>	10
Pujasri Chakraborty	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p> <p>Unit-IV: Great Educators and their educational philosophy</p> <p>a) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey</p>	20
SUDHANGSHU MONDAL	<p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p> <p>b) Teacher: Qualities and duties of a good teacher.</p> <p>c) Curriculum: Meaning and Types. Co-curricular activities.</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-III 2018-2019
EDU-H-CC-T-5: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-II: Educational Statistics a) Concept, Scope and Need of Educational Statistics b) Concept of raw data, score, frequency distribution, range, variable. c) Organization and Tabulation of Data- Frequency distribution table	10
	Unit-III: Tools and Techniques of Evaluation a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test b) Techniques: Observation, CRC, Interview, Questionnaire and Inquiry. c) Characteristics of a good test: Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination. Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses.	14
	Unit-I: Measurement and Evaluation in Education a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.	8
MD ABDUL LATIF SK	Unit-IV: Evaluation Process a) Evaluation Process: Concept, Types (Formative and Summative) b) Concept of Norm-Referenced Test and Criterion Referenced Test. c) Concept of Gradation and Credit system.	

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NABADWIP VIDYASAGAR COLLEGE

Syllabus Modularization of Education Department

EDUCATION HONOURS SEMESTER-III 2018-2019

EDU-H-CC-T-6: Philosophical Foundation of Education-II Core Course.

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-1: Philosophical bases of Education a) Philosophical bases of Education b) Concepts and nature of Western Philosophy c) Concepts and nature of Metaphysics, Epistemology and Axiology d) Role of Metaphysics, Epistemology and Axiology in Education	10
PUJASRI CHAKRABORTY (PC)	Unit-2: Idealism and Education · Idealism: principle of Idealism, influence of idealism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8
MD ABDUL LATIF SK (LS)	Unit-3: Naturalism and Education · Naturalism: principle of Naturalism, influence of Naturalism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8
PUJASRI CHAKRABORTY (PC)	Unit-4: Pragmatism and Education · Pragmatism: principle of Pragmatism, influence of Pragmatism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION HONOURS Semester- III 2018-2019
EDU-H-CC-T-7: Inclusive Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit -IV: Inclusive School a) Infrastructural facilities for an ideal Inclusive School. b) Teachers Role in Inclusive Classroom	8
PUJASRI CHAKRABORTY (PC)	.Unit I: Inclusive Education concept and Nature a) Concept and principles of Inclusion. b) Need of Inclusive education. c) PWD Act (1994)	8
PUJASRI CHAKRABORTY (PC)	Unit III: Inclusive Education and its Practices. a) Differentiating Instruction. •Peer Tutoring •Co-operative learning •Inclusive lesson planning. b) Inclusive Instructional Strategies at school level. •Remedial Help. •Team Teaching. •Circles of Friends	12
MD ABDUL LATIF SK (LS)	Unit II: Competencies development for Inclusive Education. a) Theories of Inclusive Education b) Development of Attitude, Positive Behaviour & social skill for Inclusion	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (HONOURS) SEMESTER-III 2018-2019
EDU-H-SEC-T-1(A): Statistical Analysis
Skill Enhancement Course.

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application. b) Measure of Variability- Range, AD, SD and QD- their Properties, Calculation and Application)	12
PUJASRI CHAKRABORTY (PC)	Unit-I: Descriptive Statistics c) Percentile and Percentile Rank- Definition, Calculation, Application, Graphical Determination.	10
MD ABDUL LATIF SK (LS)	Unit-II: Relationship and Inferential Statistics a) Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10
PUJASRI CHAKRABORTY (PC)	b) Parametric and Non-Parametric Test- (only Concept and Uses). Practical: Calculate – Mean, Median and Mode; Range, AD, SD & QD; PP, PR; Co-relation; Standard score & Z score from different frequency distribution	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (HONOURS) SEMESTER-III 2018-2019
EDU-H-SEC-T-1(B): Achievement Test
Skill Enhancement Course

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Concept of Achievement test a) Meaning & definition of Achievement test	8
PUJASRI CHAKRABORTY (PC)	Unit-I: Concept of Achievement test b) Characteristics of Achievement Test c) Objectives of Achievement Test	10
MD ABDUL LATIF SK (LS)	Unit-II: Different aspects of Achievement Test a) Principles of Achievement test construction	8
PUJASRI CHAKRABORTY (PC)	Unit-II: Different aspects of Achievement Test b) Steps involved in the construction of Achievement Test Practical: Construct of an Achievement Test	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEM III 2018-2019
EDU-H-GE-T-3: Educational Sociology

Name of the Teacher	Topic	No of Classes
MD ABDL LATIF SK	Unit-I: Educational Sociology a) Meaning, nature and scope of Educational sociology. b) Relation between education and sociology. c) Concept of Educational sociology and sociology of education.	8
PUJASRI CHAKRABORTY	Unit-II: Social factors, issues and Education a) Culture: Concept, role of education in culture, cultural lag. b) Social issues: unemployment, poverty, disadvantage section of Indian society (SC, ST and OBC).	8
MD ABDUL LATIF SK	Unit-IV: Social change and Education a) Social change: definition, characteristics, factors, constraints b) Education and social stratification: Definition and characteristics c) Education and Social Mobility	10
PUJASRI CHAKRABORTY	Unit-II: Factors of Education: a) Child: Meaning and characteristics of child centric education system.	10

	<p>b) Teacher: Qualities and duties of a good teacher.</p> <p>c) Curriculum: Meaning and Types. Co-curricular activities.</p>	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2018-2019
EDU-G-CC-T-3: Educational Sociology

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>Unit-I: Educational Sociology</p> <p>a) Meaning, nature and scope of Educational sociology.</p> <p>b) Relation between education and sociology.</p> <p>c) Concept of Educational sociology and sociology of education</p>	8
MD ABDUL LATIF SK	<p>Unit-II: Social factors, issues and Education</p> <p>a) Culture: Concept, role of education in culture, cultural lag.</p> <p>b) Social issues: unemployment, poverty, disadvantage section of Indian society (SC, ST and OBC).</p>	8

PUJASRI CHAKRABORTY	Unit-III: Social groups and Education a) Social groups- meaning and types (Primary, Secondary and Tertiary) b) Socialization: Meaning, process and factors of socialization, role of the family and school. c) Social Institutions and Agencies of Education: (i) Family, (ii) School.	8
MD ABDUL LATIF SK	Unit-IV: Social change and Education 1. Social change: definition, characteristics, factors, constraints. 2. Education and social stratification: Definition and characteristics. 3. Education and Social Mobility.	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2018-2019
EDU-G-SEC-T-1(A): Statistical Analysis

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application.	8
MD ABDUL LATIF SK	Practical: Calculate - Mean, Median and Mode; Range, SD ; Co-relation from different frequency distribution	8
MD ABDUL LATIF SK	Unit-I: Descriptive Statistics b) Measure of Variability- Range, SD and - their Properties, Calculation and Application	8

PUJASRI CHAKRABORTY	Unit-II: Coefficient of correlation Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2018-2019
EDU-G-SEC-T-1(A): Statistical Analysis

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application.	8
MD ABDUL LATIF SK	Practical: Calculate - Mean, Median and Mode; Range, SD ; Co-relation from different frequency distribution	8
MD ABDUL LATIF SK	Unit-I: Descriptive Statistics b) Measure of Variability- Range, SD and - their Properties, Calculation and Application	8
PUJASRI CHAKRABORTY	Unit-II: Coefficient of correlation Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER-5 2018-2019

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	07
	Unit-IV: Evaluation Process <ul style="list-style-type: none"> • a) Evaluation Process: Concept, Types (Formative and Summative) • b) Concept of Norm-Referenced Test and Criterion Referenced Test. • c) Concept of Gradation and Credit system. 	
	GROUP-B	
	<ul style="list-style-type: none"> • Unit-VI: Descriptive Statistics • a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application. • b) Measure of Variability- Range, AD, SD and QD- their Properties, Calculation and Application) • c) Percentile and Percentile Rank- Definition, Calculation, Application, Graphical • Determination. 	
MD ABDUL LATIF SK	GROUP-A	06
	<ul style="list-style-type: none"> • Unit-III: Characteristics of a good test • a) Objectivity- Meaning and nature, • b) Reliability- Concept, Nature, Causes of low Reliability, Determination of Reliability, • c) Validity- Concept, and Types, • d) Norms- Meaning and importance. • e) Usability/Practicability 	
	GROUP-B	
Unit-VIII: Relationship and Inferential Statistics <ul style="list-style-type: none"> • a) Bivariate Distribution- Concept of Correlation – Computation of Co-efficient of Correlation • by Rank difference method and Product moment method, Interpretation of Co-efficient of 	05	

	<ul style="list-style-type: none"> • Correlation, Scatter Diagram. • b) Parametric and Non-Parametric Test- (only Concept and Uses). 	
Pujashri chakraborti	GROUP-A	05
	Unit-I: Measurement and Evaluation in Education <ul style="list-style-type: none"> • a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. • b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio. 	
	GROUP-B	07
	<ul style="list-style-type: none"> • Unit-VII: Normal Distribution and Derived Score • a) Concept of Normal Distribution- Properties and Uses of NPC. Divergence from Normality Skewness and Kurtosis. • b) Derived Scores- Z-Score, Standard Score (Meaning, Calculation and Uses). 	
MD ABDUL LATIF SK	GROUP-A	08
	Unit-II: Tools and Techniques of Evaluation <ul style="list-style-type: none"> • a) Tools: <ul style="list-style-type: none"> • o Tests- Essay type and Objective type; Short answer type and Oral type. • o Personality Test- Rorschach Ink Blot Test • o Interest Test- Kuder Test • o CRC • b) Techniques: <ul style="list-style-type: none"> • Observation, Self-reporting (Interview, Questionnaire) 	
	GROUP-B	07
	<ul style="list-style-type: none"> • Unit-V: Educational Statistics (12) • a) Concept, Scope and Need of Educational Statistics • b) Organization and Tabulation of Data- Frequency distribution table • c) Graphical Representation of Data- Pie diagram, Bar graph, Histogram, Frequency Polygon • and Ogive (Using 75% rule) 	
SUDHANGSHU MONDAL		

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER 6, 2018-2019
Educational Management and Educational Technology

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	07
	<ul style="list-style-type: none"> • Unit-IV: Functions of Various Administrative Bodies • a) UGC, b) NAAC, c) NCERT, d) NCTE, e) DEB, f) CABE, g) NUEPA 	
	GROUP-B	10
	Unit-VIII: Phases, Levels, and Models of Teaching <ul style="list-style-type: none"> • a) Phases of Teaching: Pre-active, Inter-active & Post-active. • b) Levels of Teaching: Memory, Understanding, Reflective. • c) Models of Teaching: Concept, Components, Families, Glaser’s Basic Teaching Model, • Bruner’s Concept Attainment Model. 	
Pujashri chakraborti	GROUP-A	06
	<ul style="list-style-type: none"> • Unit-II: Educational Administration and Supervision • a) Educational Administration: Meaning and Function. • b) Supervision: Meaning, Purpose; Distinguish between Supervision and Inspection. • c) Factors affecting Managerial behavior of teachers: Personal, Social, Cultural, Political and • Institutional 	
	GROUP-B	05
Unit-VII: Instructional Technology		

	<ul style="list-style-type: none"> • a) Mass Instructional Technology- Seminar, Discussion, Panel Discussion. Team teaching • b) Personalized Instructional Techniques- Programmed Instruction- meaning, principles, types, • merits and demerits • c) Computers and its role in educational instruction 	
MD ABDUL LATIF SK	GROUP-A	05
	<ul style="list-style-type: none"> • Unit-I: Concept of Educational Management • a) Educational Management: Meaning, Nature, Scope, Function and Needs. • b) Types of Educational Management: Centralization, Decentralization, Autocratic, Democratic • and Laissez-fair. 	04
	GROUP-B	
	<ul style="list-style-type: none"> • Unit-V: Educational Technology • a) Meaning, Nature, Need and Scope of Educational Technology • b) Technology in Education and Technology of Education • c) Approaches of ET: Hardware, Software, and System 	
SUDHANGSHU MONDAL	GROUP-A	07
	<ul style="list-style-type: none"> • Unit-III: Educational Planning • a) Educational Planning: Meaning, Needs and Significance. • b) Types of Educational Planning; Strategies and Steps in Educational Planning. • c) Brief outline of the last Five Year Plan in Primary and Secondary Education. 	06
	GROUP-B	
	Unit-VI: Classroom Communication and Media used <ul style="list-style-type: none"> • a) Meaning, Nature, Types, and Components of Communication • b) Barriers of classroom communication and strategies of overcoming barriers in communication • c) Media used in education: Audio (Radio), Visual (Projector), Audio-visual (TV)- merits and • demerits 	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER-7, 2018-2019
Educational Guidance and Curriculum Construction

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	07
	Unit-III: Tools and Techniques of Guidance and Counseling <ul style="list-style-type: none"> • a) Basic data necessary for Educational Guidance- Pupils abilities, Aptitudes, Interests and • Attitudes, Educational Attainments and Personality Traits. • b) Measurement of Intelligence, Personality and Motivation • c) Difference between Guidance, Counseling and Teaching 	
	GROUP-B	
	Unit-VI: Concept of Curriculum Framework <ul style="list-style-type: none"> • a) Curriculum Framework: Meaning • b) NCF-2005 • c) Principles of Curriculum Construction 	04
Pujashri chakraborti	GROUP-A	07
	<ul style="list-style-type: none"> • Unit-II: Concept of Counseling (14) • a) Meaning, Nature, Scope, and Importance of Counseling • b) Types of Counseling i) Directive: Meaning, Characteristics, Purpose & Functions. • ii) Non-directive: Meaning, Characteristics, Purpose & Functions. 	

	<ul style="list-style-type: none"> • iii) Eclectic: Meaning, Characteristics, Purpose & Functions. • c) Steps of Counseling; Characteristics of good Counselor. 	
	GROUP-B	
	Unit-VII: Curriculum Evaluation <ul style="list-style-type: none"> • a) Meaning & Importance of Curriculum Evaluation • b) Formative and Summative Evaluation of Curriculum: Concept & Distinguish between them 	04
MD ABDUL LATIF SK	GROUP-A	05
	<ul style="list-style-type: none"> • Unit-IV: Mental Health and Psychodynamics of Adjustment • a) Concept of Mental Health and Mental Hygiene • b) Causes and Symptoms of Maladjustment. • c) Frustration and Conflicts • d) Adjustment Mechanisms. 	
	GROUP-B	
	Unit-VII: Curriculum Evaluation <ul style="list-style-type: none"> • a) Meaning & Importance of Curriculum Evaluation • b) Formative and Summative Evaluation of Curriculum: Concept & Distinguish between them. 	08
SUDHANGSHU MONDAL	GROUP-A	06
	Unit-I: Concept of Guidance <ul style="list-style-type: none"> • a) Meaning, Nature, Scope, and Importance of Guidance. • b) Different Types of Guidance <ul style="list-style-type: none"> • i) Educational: Meaning, Characteristics, Purpose & Functions. • ii) Vocational: Meaning, Characteristics, Purpose & Functions. • iii) Personal: Meaning, Characteristics, Purpose & Functions. • c) Guidance at different stages of Education with special emphasis on Secondary stage of Education. 	
	GROUP-B	
	Unit-V: Introduction of Curriculum <ul style="list-style-type: none"> a) Meaning, Nature, Scope and functions of Curriculum b) Determinants of Curriculum 	08

	c) Difference and Relation between Curriculum and Syllabus. d) Different Types of Curriculum e) Co-curricular Activities f) Bases of Curriculum: Philosophical, Sociological & Psychological.	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours)
PART-3, PAPER-8 2018-2019
Educational Research and Practical

Name of the Teacher	Topic	No of Classes
SUDHANGSHU MONDAL	GROUP-A	08
	Unit-III: Basic Ideas of Research (16) <ul style="list-style-type: none"> • Characteristics of a good Research Problem • Review of related Literature – purpose • Variable – dependent and independent • Research Hypothesis – meaning, nature and types • Population , Sample and sampling- meaning 	
	GROUP-B	
	Practical	
Pujashri chakraborti	GROUP-A	10
	<ul style="list-style-type: none"> • Unit-I: Research-meaning and nature: (8) • Meaning and nature of Research • Sources of Knowledge (Authority, Tradition, Personal Experience, Deduction, Induction.) • Need of Research in Education 	
	GROUP-B	

	Practical	
MD ABDUL LATIF SK	GROUP-A	08
	Unit-III: Basic Ideas of Research (16) Characteristics of a good Research Problem Review of related Literature – purpose Variable – dependent and independent Research Hypothesis – meaning, nature and types Population , Sample and sampling- meaning	
	GROUP-B	
	Practical	
SUDHANGSHU MONDAL	GROUP-A	06
	Unit-IV: Research Data: (12) <ul style="list-style-type: none"> • Qualitative and Quantitative data • Tool of data collection- characteristics, merits and demerits of questionnaire and interview • Descriptive and Inferential statistics (meaning only) • Steps of testing hypotheses 	
	GROUP-B	
	Practical	

Part 1	Teacher	Year	No of class	Year	No of classes
Paper-1	MD ABDUL LATIF SK (LS)	CONCEPT & SCOPE OF Education	6	Education & Economic Growth	10
	Abdur Rouf Shamim	Major philosophical theories	7	Signification of philosophy	7
	SUDHANGSHU MONDAL	Factors of education Aims & function		Sociological basis of Education	10
Part 2		Memory	10	Intelligence	10
	SUDHANGSHU MONDAL	Educational psychology	6	Development	6
	Abdur Rouf Shamim	learning	5	heredity	7
	MD ABDUL LATIF SK	Development	10	Environment	5

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-II 2018-2019
EDU-H-CC-T-3: Psychological Foundation of Education

Name of the Teacher	Topic	No of Classes
	Unit-I: Educational Psychology and Development	12

MD ABDUL LATIF SK	<p>a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology.</p> <p>b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive and Language development of Infancy, Childhood and Adolescence period and respective educational programmes.</p> <p>c) Piaget's theory of Cognitive Development</p> <p>Unit-IV: Personality</p> <p>a) Definition; Heredity & Environment as determinants of Personality.</p> <p>b) Type and Trait theory, Psychoanalytical theory</p> <p>c) Measurement of Personality- projective test</p> <p>d) Individual differences –meaning and implications.</p>	
PUJASRI CHAKRABORTY	<p>Unit-II: Learning</p> <p>a) Definition and characteristics of Learning; Factors influencing learning</p> <p>b) Theories of learning and their implications: Classical and Operant conditioning, Trial and Error, Insightful Learning</p> <p>c) Transfer of Learning: Concept & Types.</p> <p>d) Motivation: Types, factors and Role of Motivation in learning</p> <p>e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes</p>	10
SUDHANGSHU MONDAL	<p>Unit-III: Intelligence & Creativity</p> <p>a) Intelligence: Definition; Theories of Intelligence and their implications- Spearman, Thurston, Guilford and Gardner; Measurement of Intelligence- verbal and non-verbal</p> <p>b) Creativity: meaning, nature, factors, and nurturing.</p>	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-II 2018-2019
EDU-H-CC-T-4: History of Education in Colonial India

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p>Unit: I: Education in 19th Century in India</p> <p>a) Charter Act of 1813</p>	10

	<ul style="list-style-type: none"> b) Oriental –Occidental Controversy c) Macaulay’s Minute d) Bentinck’s Declaration e) Wood’s Despatch: Context, Recommendations, Criticism and Educational Significance f) Indian Education Commission: Background, Composition of the Commission, Criticism and Educational Significance 	
PUJASRI CHAKRABORTY	<p>Unit: II: Bengal Renaissance and Its Influence on Education</p> <ul style="list-style-type: none"> a) Concept Bengal Renaissance b) Causes of Bengal Renaissance c) Characteristics of Bengal Renaissance d) Contribution of Raja Rammohan Roy, Derozio and Vidyasagar in Education. e) Impact of Bengal Renaissance on Education, 	12
MD ABDUL LATIF SK	<p>Unit: III: Educational policy of Lord Curzon and National Education Movement</p> <ul style="list-style-type: none"> a) Simla Conference 1901 b) The Indian Universities Commission 1902 c) The Indian Universities Act 1904 d) Govt. of India’s Resolution on Indian Educational Policy 1904 e) Curzon contribution in Indian Education <p>National Education Movement</p> <ul style="list-style-type: none"> a) Characteristics, of National Education Movement, b) Causes of National Education Movement c) Objective of National Education Movement d) Different Phases of National Education Movement e) Causes of Failure of the Movement f) Influence of the National Education Movement on Future Development of Indian Education 	12
PUJASRI CHAKRABORTY	<p>Unit: IV: Commission in between 1st and 2nd world war</p> <p>The Calcutta University Commission (Sadler Commission) 1917-1919</p> <ul style="list-style-type: none"> a) Context b) Recommendation c) Criticism d) Results <p>Basic Education:</p> <ul style="list-style-type: none"> a) Concepts b) Characteristics <p>Merits & Demerits</p> <p>The post –war plan of educational development (Sargent Plan) 1944</p> <ul style="list-style-type: none"> a) Context b) Objective 	12

	c) Recommendations d) Criticise e) Results	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GE) SEM 2 2018-2019
EDU-H-GE-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	<p>Unit-I: Educational Psychology and Development</p> <p>a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology.</p> <p>b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget's view) of Infancy, Childhood and Adolescence period and respective educational programmes.</p>	15
Pujasri Chakraborty	<p>Unit-II: Learning</p> <p>a) Definition and characteristics of Learning; Factors influencing learning</p> <p>b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning</p> <p>c) Transfer of Learning: Concept & Types (Positive, Negative & Zero)</p> <p>d) Motivation: Types, factors and Role of Motivation in learning</p> <p>e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes.</p>	12
Md Abdul Latif Sk	<p>Unit-III: Intelligence & Creativity</p> <p>a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston.</p> <p>b) Creativity: meaning, factors, and nurturing.</p>	10

Pujasri Chakraborty	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications	10
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL/PCC) SEM- 2 2018-2019
EDU-G-CC-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning c) Transfer of Learning: Concept & Types (Positive, Negative & Zero) d) Motivation: Types, factors and Role of Motivation in learning e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes	15
MD ABDUL LATIF SK	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston. b) Creativity: meaning, factors, and nurturing.	12
PUJASRI CHAKRABORTY	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology.	15

	b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget's view) of Infancy, Childhood and Adolescence period and respective educational programmes.	
MD ABDUL LATIF SK	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications.	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2018-2019
SEMESTER-IV EDU-H-CC-T-8: History of Education in Post-Independence India

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-IV: National Policies on Education a) National Policy on Education (1968) b) National Policy on Education (1986) c) Programme of Action (POA)- 1992 i) Ramamurti Committee (1990-91) ii) Janardhan Reddy Committee (1992)	12
MD ABDUL LATIF SK	Unit-I: Education and Constitution a) Preamble and various Articles on Education in Indian Constitution b) RTE Act-2009 c) Development of Education under Plan (Last two plans)	10
PUJASRI CHAKRABORTY	Unit-II: Education Commission in post Independent India a) University Education Commission (1948-49) b) Secondary Education Commission (1952-53) c) Indian Education Commission (1964-66)	8

MD ABDUL LATIF SK	Unit-III: Some Educational Bodies in West Bengal (Function only) A) SCERT, b) DIET. Unit-II: Education Commission in post Independent India d) Ashoke Mitra Commission (1991-92)	8
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2018-2019
EDU-H-CC-T-9: Psychology of Instruction

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Teaching a) Science of Teaching- Relation between teaching and learning; b) Factors affecting teaching process, Input and Output variables; c) Maxims of teaching; Fundamentals of teaching.	10
MD ABDUL LATIF SK	Unit-IV: Teaching Methods a) Meaning, nature, merits and demerits- Lecture, Demonstration, Project, Problem Solving, and, Story-telling.	8
MD ABDUL LATIF SK	Unit-III: Teacher and Classroom Teaching a) Nature of classroom teaching. b) Difference between traditional and constructivist teaching; c) Micro-teaching- meaning , nature, merits and demerits	8
PUJASRI CHAKRABORTY	Unit-II: Teacher Behaviour a) Observation of classroom behaviour: Flander's Interaction analysis. b) Characteristics of a good teacher.	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2018-2019
EDU-H-CC-T-10: Contemporary issues in Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-III: Higher Education and RUSA a) Role of Higher Education b) Knowledge Commission & Higher Education c) Higher Education and RUSA d) Problems of Higher Education in India	8
PUJASRI CHAKRABORTY (PC)	Unit-IV: Issues in Education a) Peace Education: Meaning, aims & objectives, need. b) Education for Sustainable Development: Meaning, aims & objectives, Role of education in Sustainable Development. c) Inclusive Education: Meaning, Need & Govt, programme. d) Open & Distance Learning System: Meaning, Characteristics and need.	10
MD ABDUL LATIF SK (LS)	Unit-II: Universalization of Secondary Education Meaning, aims & objectives, significance; Role of RMSA, Problems. Unit-IV: Issues in Education e) Equality and Equity in Education: Meaning, importance, causes of inequality, Role of education to remove inequality in education. f) Women Education: Importance, problems	10
PUJASRI CHAKRABORTY (PC)	Unit-I: Universalization of Elementary Education Universalization of Elementary Education- Meaning, Constitutional Provision with special reference to RTE Act; Aims and Objectives, Importance, Role of DPEP; SSA-SSM, Problems.	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2018-2019
EDU-H-SEC-T-2(A): Lesson Planning

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Concept of Lesson Planning a) Definition & Meaning of Lesson Plan b) Characteristics of Lesson Plan c) Advantages of Lesson Plan	10
PUJASRI CHAKRABORTY (PC)	Unit-I: Concept of Lesson Planning c) Advantages of Lesson Plan	05
MD ABDUL LATIF SK (LS)	Unit-II: Different aspects of Lesson Plan a) Types of Lesson Plan b) Steps involved in Lesson Planning c) Principles of development of Lesson Plan	09
PUJASRI CHAKRABORTY (PC)	Unit-II: Different aspects of Lesson Plan c) Principles of development of Lesson Plan	05

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2018-2019
EDU-G-CC-T-4: History of Education

Name of the Teacher	Topic	No of Classes
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PUJASRI CHAKRABORTY	<p>.Unit-I: Education in 19th Century in India</p> <p>a) Charter Act of 1813 and its educational significance</p> <p>b) Macaulay Minuets- (1835)- its educational significance</p> <p>c) Bengal Renaissance- Contribution of Raja Ram Mohan Roy & Derozio.</p> <p>d) Wood’s Despatch (1854) and its impact on education.</p> <p>e) Indian Education Commission (1882-83) and its impact of education.</p>	10
MD ABDUL LATIF SK	<p>Unit-II: Education in 20th Century in India (1901-1944)</p> <p>a) Educational reformer Lord Curzon</p> <p>b) National education movement- Causes, Phases and Importance in Education.</p> <p>c) Basic Education- Concept, characteristics, merits and demerits.</p> <p>d) Sargent Plan Report (1944)- Pre-primary education, Primary education, Secondary education, Vocational & Technical education.</p>	10
PUJASRI CHAKRABORTY	<p>Unit-III: Education in Post-Independence India</p> <p>a) University Education Commission (1948-49) -Aims and Objective, Rural University Examination System, Teacher and Teaching Education, Vocational Education, Women Education.</p> <p>b) Secondary Education Commission (1952-53) -Structure of Education system, Aims and Objective, Curriculum and Evaluation system and Language Policy</p> <p>c) Indian Education Commission (1964-66) - Structure of Education system, Aims and Objective, Curriculum, Language Policy, Exam System and Teacher Education, Equality in Educational Opportunity.</p>	10

MD ABDUL LATIF SK	Unit-IV: National Policy on Education a) National Policy on Education (1986) -National System of Education, Equality in Education, ECCE, Operation Black Board, NavadayVidyalaya. b) Revised National Policy on Education-1992	10
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2018-2019
EDU-G-SEC-T-2(A): Lesson Planning

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Concept of Lesson Planning a) Definition & Meaning of Lesson Plan b) Characteristics of Lesson Plan	8
MD ABDUL LATIF SK	Unit-II: Different aspects of Lesson Plan a) Types of Lesson Plan b) Steps involved in Lesson Planning c) Principles of development of Lesson Plan	8
MD ABDUL LATIF SK	Practical: Development of Lesson Plan (At least 20).	10
PUJASRI CHAKRABORTY	Unit-I: Concept of Lesson Planning c) Advantages of Lesson Plan	7

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2018-2019
EDU-G-SEC-T-2(B): Use of Teaching aids

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Concept of Teaching Aids a) Definition & Meaning of Teaching Aids b) Characteristics of Teaching Aids c) Utility of Teaching Aids	8
MD ABDUL LATIF SK	Unit-II: Different Types of Teaching Aids a) Classification of Teaching Aids (Concept only) b) Projected Teaching Aids- OHP, Slide Projection, Film Strip (Concept, principles of construction, uses)	10
PUJASRI CHAKRABORTY	Unit-I: Concept of Teaching Aids d) Limitations of Teaching Aids Unit-II: Different Types of Teaching Aids c) Non-Projected Teaching Aids- Model, Chart, Poster (Concept, principles of construction, uses)	10
MD ABDUL LATIF SK	Practical: Development of Teaching Aids	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2019-2020
Course code & Title : EDU-H-CC-T-1;
Philosophical Foundation of Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p align="center">Unit – IV : Schools of Philosophy</p> <p>A) Indian school of philosophy</p> <ul style="list-style-type: none"> • Meaning , nature and classifications in Indian schools of Philosophy • Atheistic schools of Indian Philosophy – Buddhism, Jainism and Charvaka in terms of knowledge, reality and value and educational implications 	12
	<p align="center">Unit – II : Factors of Education</p> <p>e) Child : Meaning, characteristics and importance of child centric education</p> <p>f) Teacher : Qualities and duties of a good teacher, teacher as a motivator, mentor, facilitator and problem solver.</p>	10
	<p align="center">Unit – III : Philosophical bases of Education</p> <p>c) Differences among Metaphysics, Epistemology and Axiology</p>	
PUJASRI CHAKRABORTY	<p>Unit – I : Education and Educational Philosophy</p> <p>c) Meaning, nature, scope and aims of education</p> <ul style="list-style-type: none"> • Education as process and product, as Science and Arts • Individualistic and socialistic aim (meaning, characteristics and difference) • Report of Delor’s Commission (UNESCO, 1996) 	7
	<p>Unit – II : Factors of Education</p> <p>c) Curriculum : Meaning, nature and importance</p> <p>d) Co-curricular activities : Meaning, nature and importance of co-curricular activity, Principles of organizing co-curricular activity</p> <p>e) School : Vision and functions</p>	10

	<p align="center">Unit – III : Philosophical bases of Education</p> <p>g) Role of Metaphysics, Epistemology and Axiology in Education.</p>	
SUDHANGSHU MONDAL	<p>Unit – I : Education and Educational Philosophy</p> <p>b) Educational Philosophy : Meaning, nature, scope and relation between education and philosophy</p>	7
	<p>Unit – IV : Schools of Philosophy</p> <p>b) Western schools of Philosophy</p> <ul style="list-style-type: none"> ● Meaning and Nature ● Idealism, Naturalism, Pragmatism (Aims, Curriculum, Methods, Teacher & Discipline) and educational implications. 	12
	<p>Unit – III : Philosophical bases of Education</p> <p>h) Philosophy: Concept and branches i) Concepts and nature of Metaphysics, Epistemology and Axiology</p>	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2019-2020

Course code & Title :
EDU-H-CC-T-2; Sociological Foundation of Education
Core Course (Theoretical)

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p>Unit - I : Sociology and Educational Sociology</p> <p>a) Sociology : Meaning, emergence, nature and scope b) Educational sociology : Meaning, nature, scope and importance c) Relation between Education and Sociology d) Concept of Educational Sociology and Sociology of Education</p>	14
	<p>Unit - II : Social Factors, Issues and Education</p> <p>a) Culture :</p> <ul style="list-style-type: none"> ● Concept, nature and elements ● Relation between individual and culture 	

	<ul style="list-style-type: none"> ● Relation between culture and society ● Role of education in culture <p>b) Cultural lag : Concept, characteristics, causes, education and cultural lag</p> <p>Unit - IV: Social Change and Education</p> <p>b) Social change in India :</p> <ul style="list-style-type: none"> · Privatization : Concept and relationship with education · Liberalization : Concept and relationship with education · Globalization : Concept and relationship with education 	10
PUJASRI CHAKRABORTY	<p>Unit - II : Social Factors, Issues and Education</p> <p>c) Values : Concept, nature, types and role of education</p> <p>d) Social issues:</p> <ul style="list-style-type: none"> ● Unemployment : Concept, types, causes, role of education in eradication of unemployment ● Poverty : Concept, causes and role of education in eradication of poverty ● Inequality : Concept, causes and role of education in eradication of inequality 	10
	<p>Unit - III : Social Groups and Education</p> <p>a) Social groups :</p> <ul style="list-style-type: none"> · Meaning, nature · Types: <ul style="list-style-type: none"> i) Primary Group : Meaning, characteristics and role j) Secondary Group : Meaning, characteristics and role k) Tertiary Group : Meaning, characteristics and role l) Comparison between primary group, secondary group and tertiary group <p>Unit - IV: Social Change and Education</p> <p>c) Social Stratification : Definition, characteristics, causes; education and social stratification</p>	12
SUDHANGSHU MONDAL	<p>Unit - III : Social Groups and Education</p> <p>b) Socialization :</p> <ul style="list-style-type: none"> ● Meaning and characteristics ● Significance of Socialization ● Factors of socialization ● Role of the family and school <p>c) Social Institutions and Agencies of Education: (i) Family, (ii) School, (iii) State, (iv) Mass media and (v) Religion</p>	12
<p>Unit - IV: Social Change and Education</p>		

	<p>c) Social change : Definition, characteristics, factors, constraints and education as an instrument of social change</p> <p>d) Social Mobility : Definition, characteristics, causes; education and social mobility</p>	5
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GE) SEM -1 2019-2020

EDU-H-GE-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <ul style="list-style-type: none"> ● Meaning, Nature and Scope of Education. ● Individualistic and socialistic aim. 	10

	<p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy.</p> <p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p>	
Pujasri Chakraborty	<p>Unit-IV: Great Educators and their educational philosophy</p> <p>c) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey.</p> <p>Unit-II: Factors of Education:</p> <p>b) Teacher: Qualities and duties of a good teacher.</p>	12
SUDHANGSHU MONDAL	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p>	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 1 2019-2020
EDU-G-CC-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <p>a) Meaning, Nature and Scope of Education.</p>	10

	<p>b) Individualistic and socialistic aim.</p> <p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy</p>	
Pujasri Chakraborty	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p> <p>Unit-IV: Great Educators and their educational philosophy</p> <p>a) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey</p>	20
SUDHANGSHU MONDAL	<p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p> <p>b) Teacher: Qualities and duties of a good teacher.</p> <p>c) Curriculum: Meaning and Types. Co-curricular activities.</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-III 2019-2020
EDU-H-CC-T-5: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>Unit-II: Educational Statistics</p> <p>a) Concept, Scope and Need of Educational Statistics</p>	10

MD ABDUL LATIF SK	<p>b) Concept of raw data, score, frequency distribution, range, variable.</p> <p>c) Organization and Tabulation of Data-Frequency distribution table</p>	14
	<p>Unit-III: Tools and Techniques of Evaluation</p> <p>a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test</p> <p>b) Techniques: Observation, CRC, Interview, Questionnaire and Inquiry.</p> <p>c) Characteristics of a good test: Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination. Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses.</p>	
	<p>Unit-I: Measurement and Evaluation in Education</p> <p>a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement.</p> <p>b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.</p>	
	<p>Unit-IV: Evaluation Process</p> <p>a) Evaluation Process: Concept, Types (Formative and Summative)</p> <p>b) Concept of Norm-Referenced Test and Criterion Referenced Test.</p> <p>c) Concept of Gradation and Credit system.</p>	

NABADWIP VIDYASAGAR COLLEGE

Syllabus Modularization of Education Department

EDUCATION HONOURS SEMESTER-III 2019-2020

EDU-H-CC-T-6: Philosophical Foundation of Education-II Core Course.

Name of the Teacher	Topic	No of Classes
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MD ABDUL LATIF SK (LS)	Unit-1: Philosophical bases of Education a) Philosophical bases of Education b) Concepts and nature of Western Philosophy c) Concepts and nature of Metaphysics, Epistemology and Axiology d) Role of Metaphysics, Epistemology and Axiology in Education	10
PUJASRI CHAKRABORTY (PC)	Unit-2: Idealism and Education · Idealism: principle of Idealism, influence of idealism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8
MD ABDUL LATIF SK (LS)	Unit-3: Naturalism and Education · Naturalism: principle of Naturalism, influence of Naturalism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8
PUJASRI CHAKRABORTY (PC)	Unit-4: Pragmatism and Education · Pragmatism: principle of Pragmatism, influence of Pragmatism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION HONOURS Semester- III 2019-2020
EDU-H-CC-T-7: Inclusive Education

Name of the Teacher	Topic	No of Classes
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MD ABDUL LATIF SK (LS)	Unit -IV: Inclusive School a) Infrastructural facilities for an ideal Inclusive School. b) Teachers Role in Inclusive Classroom	8
PUJASRI CHAKRABORTY (PC)	.Unit I: Inclusive Education concept and Nature a) Concept and principles of Inclusion. b) Need of Inclusive education. c) PWD Act (1994)	8
PUJASRI CHAKRABORTY (PC)	Unit III: Inclusive Education and its Practices. a) Differentiating Instruction. •Peer Tutoring •Co-operative learning •Inclusive lesson planning. b) Inclusive Instructional Strategies at school level. •Remedial Help. •Team Teaching. •Circles of Friends	12
MD ABDUL LATIF SK (LS)	Unit II: Competencies development for Inclusive Education. a) Theories of Inclusive Education b) Development of Attitude, Positive Behaviour & social skill for Inclusion	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (HONOURS) SEMESTER-III 2019-2020
EDU-H-SEC-T-1(A): Statistical Analysis
Skill Enhancement Course.

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application. b) Measure of Variability- Range, AD, SD and QD- their Properties, Calculation and Application)	12
PUJASRI CHAKRABORTY (PC)	Unit-I: Descriptive Statistics c) Percentile and Percentile Rank- Definition, Calculation, Application, Graphical Determination.	10
MD ABDUL LATIF SK (LS)	Unit-II: Relationship and Inferential Statistics a) Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10
PUJASRI CHAKRABORTY (PC)	b) Parametric and Non-Parametric Test- (only Concept and Uses). Practical: Calculate – Mean, Median and Mode; Range, AD, SD & QD; PP, PR; Co-relation; Standard score & Z score from different frequency distribution	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (HONOURS) SEMESTER-III 2019-2020
EDU-H-SEC-T-1(B): Achievement Test

Skill Enhancement Course

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Concept of Achievement test a) Meaning & definition of Achievement test	8
PUJASRI CHAKRABORTY (PC)	Unit-I: Concept of Achievement test b) Characteristics of Achievement Test c) Objectives of Achievement Test	10
PUJASRI CHAKRABORTY (PC)	Unit-II: Different aspects of Achievement Test a) Principles of Achievement test construction	8
MD ABDUL LATIF SK (LS)	Unit-II: Different aspects of Achievement Test b) Steps involved in the construction of Achievement Test Practical: Construct of an Achievement Test	10

Name of the Teacher	Topic	No of Classes
MD ABDL LATIF SK	<p>Unit-I: Educational Sociology</p> <p>a) Meaning, nature and scope of Educational sociology.</p> <p>b) Relation between education and sociology.</p> <p>c) Concept of Educational sociology and sociology of education.</p>	8
PUJASRI CHAKRABORTY	<p>Unit-II: Social factors, issues and Education</p> <p>a) Culture: Concept, role of education in culture, cultural lag.</p> <p>b) Social issues: unemployment, poverty, disadvantage section of Indian society (SC, ST and OBC).</p>	8
MD ABDUL LATIF SK	<p>Unit-IV: Social change and Education</p> <p>a) Social change: definition, characteristics, factors, constraints</p> <p>b) Education and social stratification: Definition and characteristics</p> <p>c) Education and Social Mobility</p>	10
PUJASRI CHAKRABORTY	<p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p> <p>b) Teacher: Qualities and duties of a good teacher.</p> <p>c) Curriculum: Meaning and Types. Co-curricular activities.</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2019-2020
EDU-G-CC-T-3: Educational Sociology

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Educational Sociology a) Meaning, nature and scope of Educational sociology. b) Relation between education and sociology. c) Concept of Educational sociology and sociology of education	8
MD ABDUL LATIF SK	Unit-II: Social factors, issues and Education a) Culture: Concept, role of education in culture, cultural lag. b) Social issues: unemployment, poverty, disadvantage section of Indian society (SC, ST and OBC).	8
PUJASRI CHAKRABORTY	Unit-III: Social groups and Education a) Social groups- meaning and types (Primary, Secondary and Tertiary) b) Socialization: Meaning, process and factors of socialization, role of the family and school. c) Social Institutions and Agencies of Education: (i) Family, (ii) School.	8

MD ABDUL LATIF SK	Unit-IV: Social change and Education 1. Social change: definition, characteristics, factors, constraints. 2. Education and social stratification: Definition and characteristics. 3. Education and Social Mobility.	8
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2019-2020
EDU-G-SEC-T-1(A): Statistical Analysis

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application.	8
MD ABDUL LATIF SK	Practical: Calculate - Mean, Median and Mode; Range, SD ; Co-relation from different frequency distribution	8
MD ABDUL LATIF SK	Unit-I: Descriptive Statistics b) Measure of Variability- Range, SD and - their Properties, Calculation and Application	8
PUJASRI CHAKRABORTY	Unit-II: Coefficient of correlation Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10

**Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2019-2020
EDU-G-SEC-T-1(A): Statistical Analysis**

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application.	8
MD ABDUL LATIF SK	Practical: Calculate - Mean, Median and Mode; Range, SD ; Co-relation from different frequency distribution	8
MD ABDUL LATIF SK	Unit-I: Descriptive Statistics b) Measure of Variability- Range, SD and - their Properties, Calculation and Application	8
PUJASRI CHAKRABORTY	Unit-II: Coefficient of correlation Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER V 2019 -2020
EDU-H-CC-T-11: Educational Management

Name of the Teacher	Topic	No of Classes
<p style="text-align: center;">MD ABDUL LATIF SK (LS)</p>	<p>Unit-II: Educational Administration and Supervision a) Educational Administration: meaning and function. b) Supervision: meaning, purpose; difference between Supervision and Inspection. c) Factors affecting managerial behaviour of teachers: Personal, Social, Cultural, Political and Institutional.</p>	<p style="text-align: center;">12</p>
<p style="text-align: center;">PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-IV: Functions of Various Administrative Bodies a) UGC, b) NAAC, c) NCERT, d) NCTE.</p>	<p style="text-align: center;">10</p>
<p style="text-align: center;">PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-I: Concept of Educational Management a) Educational Management: Meaning, Nature, Scope, Function and Needs. b) Types of Educational Management: Centralization, Decentralization, Autocratic, Democratic and Laissez-fair.</p>	<p style="text-align: center;">12</p>

<p>MD ABDUL LATIF SK (LS)</p>	<p>Unit-III: Educational Planning a) Educational Planning: Meaning, Needs and Significance. b) Types of Educational Planning; Strategies and Steps in Educational Planning. c) Brief outline of the last Five Year Plan in Primary and Secondary Education</p>	<p>12</p>
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER V 2019 -2020

EDU-H-CC-T-12: Educational Technology

<p>Name of the Teacher</p>	<p>Topic</p>	<p>No of Classes</p>
<p>MD ABDUL LATIF SK (LS)</p>	<p>Unit-IV: Phases, Levels, and Models of Teaching a) Phases of Teaching: Pre-active, Inter-active & Post-active. b) Levels of Teaching: Memory, Understanding, Reflective. c) Models of Teaching: Concept, Components, Families, Glaser’s Basic Teaching Model, Bruner’s Concept Attainment Model.</p>	<p>12</p>
<p>PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-I: Educational Technology a) Meaning, Nature, Need and Scope of Educational Technology b) Technology in Education and Technology of Education c) Approaches of ET: Hardware, Software, and System</p>	<p>10</p>
<p>MD ABDUL LATIF SK (LS)</p>	<p>Unit-III: Instructional Technology a) Mass Instructional Technology- Seminar, Discussion, Panel Discussion. Team teaching b) Personalized Instructional Techniques- Programmed Instruction- meaning, principles, types, merits and demerits c) Computers and its role in educational instruction</p>	<p>12</p>

<p>PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-II: Classroom Communication and Media used a) Meaning, Nature, Types, and Components of Communication b) Barriers of classroom communication and strategies of overcoming barriers in communication c) Media used in education: Audio (Radio), Visual (Projector), Audio-visual (TV)- merits and demerits</p>	<p>10</p>
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2019 -2020

Name of the Teacher	Topic	No of Classes
<p>MD ABDUL LATIF SK</p>	<p>UNIT-I: Meaning and nature of Value a) Value: Meaning and Nature b) Values enshrined in Indian constitution. c) Classification of values proposed by NCERT</p>	<p>09</p>
<p>PUJASRI CHAKRABORTY</p>	<p>UNIT-II: Value Education a) Value Education: concept and objective. b) Need for value education in India</p>	<p>08</p>
<p>MD ABDUL LATIF SK</p>	<p>UNIT-III: Value Education in School a) Value Education through Curriculum. b) Value Education through Co-Curricular Activities. c) Role of teachers to facilitate development of values among the learners.</p>	<p>15</p>
<p>PUJASRI CHAKRABORTY</p>	<p>UNIT-IV: Strategies of value education a) Storytelling. b) Play-way Method. c) Role plays.</p>	<p>09</p>

EDU-H-DSE-T-1/2(A): Value Education

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2019 -2020

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-1: Meaning and Concept of Population Education a) Meaning & Concept of Population Education b) Scope & objectives of Population Education.	10
PUJASRI CHAKRABORTY	Unit-IV: Population Education Curriculum and Policy a) Curriculum of Population education at different stages. b) Role of population policy in India. c) Role of Teacher in making awareness of population explosion. d) Community sensitisation programme of early marriage and child labour etc.	12
PUJASRI CHAKRABORTY	Unit-II: Historical Development of Population Education a) Historical development of Population Education and education programme in India.	09

	b) Some major thrust areas of population education-- Family planning · Adolescent education	
MD ABDUL LATIF SK	Unit-III: Population Growth and Problems in India a) Definition of population growth. b) Factors influencing population growth- fertility, mortality, and migration. c) Causes of rapid population growth d) Preventive measures for rapid population growth.	12

EDU-H-DSE-T-1/2(B): Population Education

NABADWIP VIDYASAGAR COLLEGE

Syllabus Modularization of Education Department

Education (Honours) SEMESTER-V 2022 JULY-DECEMBER

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	UNIT-1: Concept of Peace Education a) Peace Education : Meaning, nature, aims, objectives & scope b) Need of Peace Education. c) Factors of peace education: unemployment, terrorism, religion.	10
PUJASRI CHAKRABORTY	UNIT-2: Key Thinkers of Peace Education a) Indian Context: · Rabindranath Tagore, · Sri Aurobinda b) Global context: · Montessori · John Dewe	12
MD ABDUL LATIF SK	UNIT-4: Approaches of Peace Education a) Participatory Education b) Co-operative Learning	09
PUJASRI CHAKRABORTY	UNIT-3: Peace Education Programme a) Principles of peace education b) Curriculum and Peace Education. c) Quality of a teacher as a peace educator	08

EDU-H-DSE-T-1/2(C): Peace Education

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2019 -2020
EDU-H-DSE-T-1/2(D): Distance Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit I: Concept of Distance & Open Education a) Meaning and definition of Distance Education. b) Characteristics and objectives of Distance Education. c) Merits and limitations of Distance Education.	12
PUJASRI CHAKRABORTY	Unit II: Strategies of distance education a) Mode and strategies of Distance Education. b) Relationship among Non-formal, Correspondence, Distance and Open Education.	10
PUJASRI CHAKRABORTY	Unit III: Status of open and distance education in India a) Present state of Distance and Open Education in India. b) Role of multi-media in Distance and Open Education.	08
MD ABDUL LATIF SK	Unit IV: Problems and remedies of distance and open education in India a) Salient features of the Indira Gandhi National Open University (IGNOU) and National Open School. b) Problems of Distance and Open Education in India.	10

	c) Measures for strengthening Distance and Open Education in India.	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2019 -2020
EDU-G-GE-T-1: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Measurement and Evaluation in Education a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.	10
MD ABDUL LATIF SK	Unit-II: Educational Statistics a) Concept, Scope and Need of Educational Statistics b) Concept of raw data, score, frequency distribution, range, variable. c) Organization and Tabulation of Data- Frequency distribution table	10
PUJASRI CHAKRABORTY	Unit-IV: Evaluation Process a) Evaluation Process: Concept, Types (Formative and Summative) b) Concept of Norm-Referenced Test and Criterion Referenced Test c) Concept of Gradation and Credit system	10

MD ABDUL LATIF SK	<p>Unit-III: Tools and Techniques of Evaluation</p> <p>a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test</p> <p>b) Techniques: Observation, CRC, Interview, Questionnaire and Inquiry. c) Characteristics of a good test: o Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination. Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses</p>	14
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Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Guidance services: Meaning, nature, and importance of the following guidance services: Individual Inventory Services, Testing services, Counselling services.	8
MD ABDUL LATIF SK	Unit-II: Organizing guidance services at educational institution: a) Pre-requisites for organizing guidance services b) Organizing guidance services at school and college level .	7
PUJASRI CHAKRABORTY	Unit-I: Guidance services: Information service, Placement service, Follow up service.	8
MD ABDUL LATIF SK	Unit-II: Organizing guidance services at educational institution: c) Role of teachers in organizing guidance services.	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2019 -2020
EDU-G-SEC-T-3(B): Life skill Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit I: Introduction to life skill education a) Life Skills: Concept, core life skills and their applications.	8
MD ABDUL LATIF SK	Unit II: Strategies for life skill Education a) Coping with Emotions: Definition, Characteristics, Types, Coping Strategies	7
PUJASRI CHAKRABORTY	Unit II: Strategies for life skill Education b) Coping with Stress: Definition, Stressors, Sources of Stress, Coping Strategies.	4
MD ABDUL LATIF SK	Unit I: Introduction to life skill education b) Life Skill education: concept, nature and scope, Distinction between life skill education and sex education. c) Social skill, Negotiation skill, Thinking skill and Problem solving skill	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2019 -2020
EDU-G-DSE-T-1/2(A): Value Education

Name of the Teacher	Topic	No of Classes
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PUJASRI CHAKRABORTY	UNIT-I: Meaning and nature of Value a) Value: Meaning and Nature b) Values enshrined in Indian constitution. c) Classification of values proposed by NCERT	
MD ABDUL LATIF SK	UNIT-III: Value Education in School a) Value Education through Curriculum. b) Value Education through Co-Curricular Activities. c) Role of teachers to facilitate development of values among the learners	
PUJASRI CHAKRABORTY	UNIT-II: Value Education a) Value Education: concept and objective. b) Need for value education in India	
MD ABDUL LATIF SK	UNIT-IV: Strategies of value education a) Storytelling. b) Play-way Method. c) Role plays	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2019 -2020
EDU-G-DSE-T-1/2(B): Population Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>Unit-1: Meaning and Concept of Population Education</p> <p>a) Meaning & Concept of Population Education</p> <p>b) Scope & objectives of Population Education</p>	8
MD ABDUL LATIF SK	<p>Unit-II: Historical Development of Population Education</p> <p>a) Historical development of Population Education and education programme in India.</p> <p>b) Some major thrust areas of population education-</p> <ul style="list-style-type: none"> · Family planning · Adolescent education 	7
PUJASRI CHAKRABORTY	<p>Unit-IV: Population Education Curriculum and Policy</p> <p>a) Curriculum of Population education at different stages.</p> <p>b) Role of population policy in India.</p> <p>c) Role of Teacher in making awareness of population explosion.</p> <p>d) Community sensitisation programme of early marriage and child labour etc.</p>	8
MD ABDUL LATIF SK	<p>Unit-III: Population Growth and Problems in India</p> <p>a) Definition of population growth.</p> <p>b) Factors influencing population growth- fertility, mortality, and migration.</p> <p>c) Causes of rapid population growth</p> <p>d) Preventive measures for rapid population growth.</p>	7

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2019 -2020
EDU-G-DSE-T-1/2(C): Peace Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	UNIT-II: Key Thinkers of Peace Education Indian Context: <ul style="list-style-type: none"> · Rabindranath Tagore, · Sri Aurobindo Global context: · Montessori · John Dewey 	8
PUJASRI CHAKRABORTY	UNIT-I: Concept of Peace Education <ul style="list-style-type: none"> · Peace Education: Meaning, nature, aims, objectives & scope · Need of Peace Education. · Factors of peace education: unemployment, terrorism, religion. 	7
MD ABDUL LATIF SK	UNIT-III: Peace Education Programme in School <ul style="list-style-type: none"> · Principles of peace education · Curriculum and Peace Education. · Quality of a teacher as a peace educator 	8
PUJASRI CHAKRABORTY	UNIT-IV: Approaches of Peace Education <ul style="list-style-type: none"> · Participatory Education · Co-operative Learning 	7

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2019 -2020
EDU-G-DSE-T-1/2(D): Distance Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>Unit IV: Problems and remedies of distance and open education in India</p> <p>a) Salient features of the Indira Gandhi National Open University (IGNOU) and National Open School.</p> <p>b) Problems of Distance and Open Education in India.</p> <p>c) Measures for strengthening Distance and Open Education in India</p>	8
MD ABDUL LATIF SK	<p>Unit I: Concept of Distance & Open Education</p> <p>a) Meaning and definition of Distance Education.</p> <p>b) Characteristics and objectives of Distance Education.</p> <p>c) Merits and limitations of Distance Education.</p>	7
PUJASRI CHAKRABORTY	<p>Unit II: Strategies of distance education</p> <p>a) Mode and strategies of Distance Education.</p> <p>b) Relationship among Non-formal, Correspondence, Distance and Open Education.</p>	8
MD ABDUL LATIF SK	<p>Unit III: Status of open and distance education in India</p> <p>a) Present state of Distance and Open Education in India.</p>	7

	b) Role of multi-media in Distance and Open Education.	
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Education (Honours) SEMESTER-II 2019-2020
EDU-H-CC-T-3: Psychological Foundation of Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive and Language development of Infancy, Childhood and Adolescence period and respective educational programmes. c) Piaget's theory of Cognitive Development	12
	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Measurement of Personality- projective test d) Individual differences –meaning and implications.	
PUJASRI CHAKRABORTY	Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Trial and Error, Insightful Learning c) Transfer of Learning: Concept & Types. d) Motivation: Types, factors and Role of Motivation in learning e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes	10
	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications- Spearman, Thurston, Guilford and Gardner; Measurement of Intelligence- verbal and non-verbal b) Creativity: meaning, nature, factors, and nurturing.	
SUDHANGSHU MONDAL		12

EDU-H-CC-T-4: History of Education in Colonial India

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p>Unit: I: Education in 19th Century in India</p> <p>a) Charter Act of 1813 b) Oriental –Occidental Controversy c) Macaulay’s Minute d) Bentinck’s Declaration e) Wood’s Despatch: Context, Recommendations, Criticism and Educational Significance f) Indian Education Commission: Background, Composition of the Commission, Criticism and Educational Significance</p>	10
PUJASRI CHAKRABORTY	<p>Unit: II: Bengal Renaissance and Its Influence on Education</p> <p>a) Concept Bengal Renaissance b) Causes of Bengal Renaissance c) Characteristics of Bengal Renaissance d) Contribution of Raja Rammohan Roy, Derozio and Vidyasagar in Education. e) Impact of Bengal Renaissance on Education,</p>	12
MD ABDUL LATIF SK	<p>Unit: III: Educational policy of Lord Curzon and National Education Movement</p> <p>a) Simla Conference 1901 b) The Indian Universities Commission 1902 c) The Indian Universities Act 1904 d) Govt. of India’s Resolution on Indian Educational Policy 1904 e) Curzon contribution in Indian Education</p> <p>National Education Movement</p> <p>a) Characteristics, of National Education Movement, b) Causes of National Education Movement c) Objective of National Education Movement d) Different Phases of National Education Movement e) Causes of Failure of the Movement f) Influence of the National Education Movement on Future Development of Indian Education</p>	12
PUJASRI CHAKRABORTY	<p>Unit: IV: Commission in between 1st and 2nd world war</p> <p>The Calcutta University Commission (Sadler Commission) 1917-1919</p> <p>a) Context b) Recommendation c) Criticism d) Results</p>	12

	Basic Education: a) Concepts b) Characteristics Merits & Demerits The post-war plan of educational development (Sargent Plan) 1944 a) Context b) Objective c) Recommendations d) Criticise e) Results	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GE) SEM 2 2019-2020
EDU-H-GE-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget's view) of Infancy, Childhood and Adolescence period and respective educational programmes.	15
Pujasri Chakraborty	Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning c) Transfer of Learning: Concept & Types (Positive, Negative & Zero) d) Motivation: Types, factors and Role of Motivation in learning e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes.	12

Md Abdul Latif Sk	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston. b) Creativity: meaning, factors, and nurturing.	10
Pujasri Chakraborty	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL/PCC) SEM- 2 2019-2020
EDU-G-CC-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning c) Transfer of Learning: Concept & Types (Positive, Negative & Zero) d) Motivation: Types, factors and Role of Motivation in learning e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes	15
MD ABDUL LATIF SK	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston. b) Creativity: meaning, factors, and nurturing.	12

PUJASRI CHAKRABORTY	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget's view) of Infancy, Childhood and Adolescence period and respective educational programmes.	15
MD ABDUL LATIF SK	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications.	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2019-2020
SEMESTER-IV EDU-H-CC-T-8: History of Education in Post-Independence India

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-IV: National Policies on Education a) National Policy on Education (1968) b) National Policy on Education (1986) c) Programme of Action (POA)- 1992 i) Ramamurti Committee (1990-91) ii) Janardhan Reddy Committee (1992)	12
MD ABDUL LATIF SK	Unit-I: Education and Constitution a) Preamble and various Articles on Education in Indian Constitution b) RTE Act-2009 c) Development of Education under Plan (Last two plans)	10

PUJASRI CHAKRABORTY	Unit-II: Education Commission in post Independent India a)University Education Commission (1948-49) b) Secondary Education Commission (1952-53) c) Indian Education Commission (1964-66)	8
MD ABDUL LATIF SK	Unit-III: Some Educational Bodies in West Bengal (Function only) A)SCERT, b) DIET. Unit-II: Education Commission in post Independent India d) Ashoke Mitra Commission (1991-92)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2019-2020
EDU-H-CC-T-9: Psychology of Instruction

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Teaching a)Science of Teaching- Relation between teaching and learning; b)Factors affecting teaching process, Input and Output variables; c) Maxims of teaching; Fundamentals of teaching.	10
MD ABDUL LATIF SK	Unit-IV: Teaching Methods a) Meaning, nature, merits and demerits- Lecture, Demonstration, Project, Problem Solving, and, Story-telling.	8
MD ABDUL LATIF SK	Unit-III: Teacher and Classroom Teaching a) Nature of classroom teaching. b) Difference between traditional and constructivist teaching; c) Micro-teaching- meaning , nature, merits and demerits	8

PUJASRI CHAKRABORTY	Unit-II: Teacher Behaviour a) Observation of classroom behaviour: Flander's Interaction analysis. b) Characteristics of a good teacher.	8
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2019-2020
EDU-H-CC-T-10: Contemporary issues in Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-III: Higher Education and RUSA a) Role of Higher Education b) Knowledge Commission & Higher Education c) Higher Education and RUSA d) Problems of Higher Education in India	8
PUJASRI CHAKRABORTY (PC)	Unit-IV: Issues in Education a) Peace Education: Meaning, aims & objectives, need. b) Education for Sustainable Development: Meaning, aims & objectives, Role of education in Sustainable Development. c) Inclusive Education: Meaning, Need & Govt, programme. d) Open & Distance Learning System: Meaning, Characteristics and need.	10
MD ABDUL LATIF SK (LS)	Unit-II: Universalization of Secondary Education Meaning, aims & objectives, significance; Role of RMSA, Problems. Unit-IV: Issues in Education e) Equality and Equity in Education: Meaning, importance, causes of inequality, Role of education to remove inequality in education. f) Women Education: Importance, problems	10

PUJASRI CHAKRABORTY (PC)	Unit-I: Universalization of Elementary Education Universalization of Elementary Education- Meaning, Constitutional Provision with special reference to RTE Act; Aims and Objectives, Importance, Role of DPEP; SSA-SSM, Problems.	10
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2019-2020
EDU-H-SEC-T-2(A): Lesson Planning

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Concept of Lesson Planning a) Definition & Meaning of Lesson Plan b) Characteristics of Lesson Plan c) Advantages of Lesson Plan	10
PUJASRI CHAKRABORTY (PC)	Unit-I: Concept of Lesson Planning c) Advantages of Lesson Plan	05
MD ABDUL LATIF SK (LS)	Unit-II: Different aspects of Lesson Plan a) Types of Lesson Plan b) Steps involved in Lesson Planning c) Principles of development of Lesson Plan	09
PUJASRI CHAKRABORTY (PC)	Unit-II: Different aspects of Lesson Plan c) Principles of development of Lesson Plan	05

**Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2019-2020
EDU-G-CC-T-4: History of Education**

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>.Unit-I: Education in 19th Century in India</p> <p>a) Charter Act of 1813 and its educational significance</p> <p>b) Macaulay Minuets- (1835)- its educational significance</p> <p>c) Bengal Renaissance- Contribution of Raja Ram Mohan Roy & Derozio.</p> <p>d) Wood’s Despatch (1854) and its impact on education.</p> <p>e) Indian Education Commission (1882-83) and its impact of education.</p>	10
MD ABDUL LATIF SK	<p>Unit-II: Education in 20th Century in India (1901-1944)</p> <p>a) Educational reformer Lord Curzon</p> <p>b) National education movement- Causes, Phases and Importance in Education.</p> <p>c) Basic Education- Concept, characteristics, merits and demerits.</p> <p>d) Sargent Plan Report (1944)- Pre-primary education, Primary education, Secondary education, Vocational & Technical education.</p>	10
PUJASRI CHAKRABORTY	<p>Unit-III: Education in Post-Independence India</p> <p>a) University Education Commission (1948-49) -Aims and Objective, Rural University Examination System, Teacher and Teaching Education, Vocational Education, Women Education.</p> <p>b) Secondary Education Commission (1952-53) -Structure of Education system, Aims and Objective, Curriculum and Evaluation system and Language Policy</p>	10

	c) Indian Education Commission (1964-66) - Structure of Education system, Aims and Objective, Curriculum, Language Policy, Exam System and Teacher Education, Equality in Educational Opportunity.	
MD ABDUL LATIF SK	Unit-IV: National Policy on Education a) National Policy on Education (1986) -National System of Education, Equality in Education, ECCE, Operation Black Board, NavadayVidyalaya. b) Revised National Policy on Education-1992	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2019-2020
EDU-G-SEC-T-2(A): Lesson Planning

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Concept of Lesson Planning a) Definition & Meaning of Lesson Plan b) Characteristics of Lesson Plan	8
MD ABDUL LATIF SK	Unit-II: Different aspects of Lesson Plan a) Types of Lesson Plan b) Steps involved in Lesson Planning c) Principles of development of Lesson Plan	8
MD ABDUL LATIF SK	Practical: Development of Lesson Plan (At least 20).	10

PUJASRI CHAKRABORTY	Unit-I: Concept of Lesson Planning c) Advantages of Lesson Plan	7
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2019-2020
EDU-G-SEC-T-2(B): Use of Teaching aids

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Concept of Teaching Aids a) Definition & Meaning of Teaching Aids b) Characteristics of Teaching Aids c) Utility of Teaching Aids	8
MD ABDUL LATIF SK	Unit-II: Different Types of Teaching Aids a) Classification of Teaching Aids (Concept only) b) Projected Teaching Aids- OHP, Slide Projection, Film Strip (Concept, principles of construction, uses)	10
PUJASRI CHAKRABORTY	Unit-I: Concept of Teaching Aids d) Limitations of Teaching Aids Unit-II: Different Types of Teaching Aids c) Non-Projected Teaching Aids- Model, Chart, Poster (Concept, principles of construction, uses)	10
MD ABDUL LATIF SK	Practical: Development of Teaching Aids	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- VI, Education (Honours) 2019-2020
EDU-H-CC-T-13: Curriculum Studies

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY (PC)	Unit-I: Introduction of Curriculum a) Meaning, Nature, Scope and functions of Curriculum b) Determinants of Curriculum c) Difference and Relation between Curriculum and Syllabus. d) Different Types of Curriculum .	10
MD ABDUL LATIF SK (LS)	Unit-IV: Curriculum Theories a) Definition b) Types (only concept) c) Technical & Non-Technical Model (One theory from each category) Unit-I: Introduction of Curriculum e) Co-curricular Activities f) Bases of Curriculum: Philosophical, Sociological & Psychological.	12

PUJASRI CHAKRABORTY (PC)	Unit-III: Curriculum Evaluation a) Meaning & importance of curriculum evaluation b) Formative and summative evaluation of curriculum: concept & difference between them.	05
MD ABDUL LATIF SK (LS)	Unit-II: Concept of Curriculum Framework a) Curriculum Framework: Meaning b) NCF-2005 c) Principles of curriculum construction	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- VI, Education (Honours) 2019-2020
EDU-H-CC-T-14: Educational Research

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	. Unit-II: Educational Research- meaning, nature and types <ul style="list-style-type: none"> ● Meaning, nature & scope of Educational Research ● Types of research: Basic, Applied & Action Research; Longitudinal and Cross Sectional ● Research. Historical, ● Descriptive and Experimental research (meaning only) ● c) Importance of Educational Research. 	12

<p>PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-IV: Research Data:</p> <ul style="list-style-type: none"> ● Qualitative and Quantitative data ● Tool of data collection- characteristics, merits and demerits of questionnaire and interview ● Descriptive and Inferential statistics (meaning only) ● d) Steps of testing hypotheses 	<p style="text-align: center;">12</p>
<p>MD ABDUL LATIF SK (LS)</p>	<p>Unit-III: Basic Ideas of Research</p> <ul style="list-style-type: none"> ● Characteristics of a good research problem ● Review of related Literature – purpose ● Variable – dependent and independent ● Research Hypothesis – meaning, nature and types ● e) Population , Sample and sampling technique- meaning 	<p style="text-align: center;">15</p>
<p>PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-I: Research-meaning and nature</p> <ul style="list-style-type: none"> ● Meaning and nature of research ● Sources of knowledge (Authority, Tradition, Personal Experience, Deduction, Induction.) ● c) Need of research in Education 	<p style="text-align: center;">10</p>

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-VI 2019-2020
EDU-H-DSE-T-3/4(A): Mental Hygiene Discipline Specific Elective Course

<p>Name of the Teacher</p>	<p>Topic</p>	<p>No of Classes</p>
<p>MD ABDUL LATIF SK</p>	<p>Unit- I: Concept of Mental Hygiene a) Definition of Mental Hygiene b) Aims of Mental Hygiene c) Scope of Mental Hygiene</p>	<p style="text-align: center;">09</p>
<p>PUJASRI CHAKRABORTY</p>	<p>Unit-II: Concept of Mental Health a) Definition of mental health b) Symptoms of good mental health c) Causes of ill mental health</p>	<p style="text-align: center;">08</p>

PUJASRI CHAKRABORTY	Unit-III: Classification of Mental disorder (Identification Characteristics, causes and treatment only) a) DSM-IV: <ul style="list-style-type: none"> · Axis- I: Depression · Axis- II: Obsessive compulsive disorder (OCD) · Axis- III: Bipolar mood disorder · Axis- IV: Occupational disorder · Axis- VI: Truancy b) Common Axis: <ul style="list-style-type: none"> · Common Axis-I: Anxiety · Common Axis-II: Personality disorder · Common Axis-III: Conflict 	15
MD ABDUL LATIF SK	Unit-IV: Prevention of Mental Hygiene a) Role of parents in preserving mental illness of children b) Role of Teachers in preserving mental illness of children in the Educational Institution c) Relation between Mental Hygiene and Adjustments	09

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-VI 2019-2020
EDU-H-DSE-T-3/4(A): Mental Hygiene Discipline Specific Elective Course

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Meaning, Nature, Scope, and Methods of Comparative Education a) Meaning, nature, scope and importance of Comparative Education. b) Methods of Comparative Education: Philosophical Method ii) Historical Method iii) Sociological Method iv) Psychological Method v) Scientific Method	10
PUJASRI CHAKRABORTY	Unit-II: Factors of Comparative Education: a) Natural Factors: Historical, Racial, Linguistic and Social Factors. b) Spiritual Factors: Religious and Philosophical Factors.	12

	c) Secular Factors: Factor of Humanism, Socialism, Nationalism and Democracy	
PUJASRI CHAKRABORTY	Unit-III: Universalization of Elementary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Elementary Education System.	09
MD ABDUL LATIF SK	Unit-IV: Universalization of Secondary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Secondary Education System	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Concept of Guidance a) Meaning, Nature, Scope, and Importance of Guidance. b) Different Types of Guidance i) Educational: Meaning, Characteristics, Purpose & Functions. ii) Vocational: Meaning, Characteristics, Purpose & Functions. iii) Personal: Meaning, Characteristics, Purpose & Functions.	10
PUJASRI CHAKRABORTY	Unit-II: Concept of Counselling a) Meaning, Nature, Scope, and Importance of Counselling b) Types of Counselling i) Directive: Meaning, Characteristics, Purpose & Functions. ii) Non-directive: Meaning, Characteristics, Purpose & Functions. iii) Eclectic: Meaning, Characteristics, Purpose & Functions. c) Steps of Counselling; Characteristics of good Counsellor.	12
PUJASRI CHAKRABORTY	Unit-III: Tools and Techniques of Guidance and Counselling a) Basic data necessary for Educational Guidance- Pupils abilities, Aptitudes, Interests and Attitudes, Educational Attainments and Personality Traits. b) Difference between Guidance, Counselling and Teaching.	09
MD ABDUL LATIF SK	Unit-IV: Guidance and Counselling for Diverse Learners a) Identification of Gifted, Slow learners, Learner with learning disabilities. b) Need of Guidance for diverse learners c) Need of Counselling for diverse learner	08

Education (Honours) SEMESTER-VI 2019-2020
EDU-H-DSE-T-3/4 (C): Guidance & Counselling
Discipline Specific Elective Course.

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-VI 2019-2020
EDU-H-DSE-T-3/4(D): Great Educators
Discipline Specific Elective Course.

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit – I: Indian Educators: Contribution of following great educators with special reference to Educational Philosophy, aims of education, Curriculum, Method of Teaching, Role of teacher & Relevance in Present day context. Swami Vivekananda Shri Aurobinda.	12
PUJASRI CHAKRABORTY	Unit - II: Western Educators: Contribution of following great educators with special reference to Educational Philosophy, Aims of education, Curriculum, Method of Teaching Role of teacher & Relevance in Present day context. Bertrand Russel Madam Maria Montessori	10
PUJASRI CHAKRABORTY	Unit - III: Modern Thinkers on Education in India a) S. Radhakrishnan b) Ashutosh Mukherjee c) AbulKalam Azad	08
MD ABDUL LATIF SK	Unit- IV: Some Experiments of Great Educators on Education: a) Viswabharati and Rabindranath Tagore b) Basic education and Gandhiji c) Kindergarten and Froebel d) Laboratory school and John Dewey	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6) 2019-2020
EDU-G-SEC-T-4(A) : Pedagogical knowledge

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Meaning and Nature of Pedagogy a) Meaning, definition, characteristics & need of Pedagogy. b) Scope of Pedagogy.	8

BHAWASTI SAHA	Unit-II: Pedagogical Approaches a) Lecture Method b) Heuristic Method c) Project Method	7
SOMNATH KUNDU	Unit-I: Meaning and Nature of Pedagogy c) Difference between Pedagogy & Andragogy d) Aims and Objectives of following disciplines at secondary level: · Language · Social Science · Science · Mathematics	10
PUJASRI CHAKRABORTY	Unit-II: Pedagogical Approaches d) Demonstration Method e) Laboratory Method f) Collaborative Method	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6) 2019-2020
EDU-G-SEC-T-4(B) : Yoga Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Concept of Yoga Education a) Meaning and definition, and nature of Yoga Education b) Types and aims of Yoga Education	8
PUJASRI CHAKRABORTY	Unit-II: Yoga and Health a) Need of Yoga for good health b) Yogic concept of healthy life style	7

MD ABDUL LATIF SK	Practical: Practical Asanas and Pranayam	10
PUJASRI CHAKRABORTY	Unit-I: Concept of Yoga Education c) Role of teachers in implementing Yoga Education Unit-II: Yoga and Health c) Yoga for reduction of stress	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2019-2020
EDU-G-GE-T-1: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Measurement and Evaluation in Education a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.	10
MD ABDUL LATIF SK	Unit-II: Educational Statistics a) Concept, Scope and Need of Educational Statistics b) Concept of raw data, score, frequency distribution, range, variable. c) Organization and Tabulation of Data- Frequency distribution table	10

MD ABDUL LATIF SK	<p>Unit-IV: Evaluation Process a) Evaluation Process: Concept, Types (Formative and Summative)</p> <p>b) Concept of Norm-Referenced Test and Criterion Referenced Test</p> <p>c) Concept of Gradation and Credit system</p>	10
PUJASRI CHAKRABORTY	<p>Unit-III: Tools and Techniques of Evaluation</p> <p>a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test</p> <p>b) Techniques: Observation, CRC, Interview, Questionnaire and Inquiry. c) Characteristics of a good test: o Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination. Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses</p>	14

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2019-2020
EDU-G-DSE-T-3/4(A): Mental Hygiene

Name of the Teacher	Topic	No of Classes
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Pujasri Chakraborty	Unit-II: Concept of Mental Health a) Definition of mental health b) Symptoms of good mental health c) Causes of ill mental health	8
Md Abdul Latif Sk	Unit- I: Concept of Mental Hygiene a) Definition of Mental Hygiene b) Aims of Mental Hygiene c) Scope of Mental Hygiene	7
Pujasri Chakraborty	Unit-IV: Prevention of Mental Hygiene a) Role of parents in preserving mental illness of children b) Role of Teachers in preserving mental illness of children in the Educational Institution c) Relation between Mental Hygiene and Adjustment	7
Md Abdul Latif Sk	Unit-III: Classification of Mental disorder (Identification Characteristics, causes and treatment only) a) DSM-IV: · Axis- I: Depression · Axis- II: Obsessive compulsive disorder (OCD) · Axis- III: Bipolar mood disorder · Axis- IV: Occupational disorder · Axis- VI: Truancy b) Common Axis: · Common Axis-I: Anxiety · Common Axis-II: Personality disorder · Common Axis-III: Conflict	8

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	<p>Unit-I: Meaning, Nature, Scope, and Methods of Comparative Education</p> <p>a) Meaning, nature, scope and importance of Comparative Education.</p> <p>b) Methods of Comparative Education: i) Philosophical Method ii) Historical Method iii) Sociological Method iv) Psychological Method v) Scientific Method</p>	10
Md Abdul Latif Sk	<p>Unit-II: Factors of Comparative Education:</p> <p>a) Natural Factors: Historical, Racial, Linguistic and Social Factors.</p> <p>b) Spiritual Factors: Religious and Philosophical Factors.</p> <p>c) Secular Factors: Factor of Humanism, Socialism, Nationalism and Democracy.</p>	12
Pujasri Chakraborty	<p>Unit-III: Universalization of Elementary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Elementary Education System.</p>	10
Md Abdul Latif Sk	<p>Unit-IV: Universalization of Secondary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Secondary Education System</p>	12

Education (GENERAL) SEM 6 2019-2020
EDU-G-DSE-T-3/4 (C): Guidance and Counselling

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	<p>Unit-IV: Guidance and Counselling for Diverse Learners</p> <p>a) Identification of Gifted, Slow learners, Learner with learning disabilities.</p> <p>b) Need of Guidance for diverse learners</p> <p>c) Need of Counselling for diverse learner</p>	8
Md Abdul Latif Sk	<p>Unit-III: Tools and Techniques of Guidance and Counselling</p> <p>a) Basic data necessary for Educational Guidance- Pupils abilities, Aptitudes, Interests and Attitudes, Educational Attainments and Personality Traits.</p> <p>b) Difference between Guidance, Counselling and Teaching</p>	10
Md Abdul Latif Sk	<p>Unit-II: Concept of Counselling</p> <p>a) Meaning, Nature, Scope, and Importance of Counselling</p> <p>b) Types of Counselling i) Directive: Meaning, Characteristics, Purpose & Functions. ii) Non-directive: Meaning, Characteristics, Purpose & Functions. iii) Eclectic: Meaning, Characteristics, Purpose & Functions.</p> <p>c) Steps of Counselling; Characteristics of good Counsellor.</p>	13
Pujasri Chakraborty	<p>Unit-I: Concept of Guidance</p> <p>a) Meaning, Nature, Scope, and Importance of Guidance.</p> <p>b) Different Types of Guidance i) Educational: Meaning, Characteristics, Purpose & Functions. ii) Vocational: Meaning, Characteristics, Purpose & Functions. iii) Personal: Meaning, Characteristics, Purpose & Functions.</p>	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2019-2020
EDU-G-DSE-T-3/4(D): Great Educator

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	<p>Unit – I: Indian Educators:</p> <p>Contribution of following great educators with special reference to Educational Philosophy, aims of education, Curriculum, Method of Teaching, Role of teacher & Relevance in Present day context.</p> <ul style="list-style-type: none"> · Sarvapalli Radhakrishnan. · Shri Aurobinda. 	10
Md Abdul Latif Sk	<p>Unit - III: Modern Thinkers on Education in India</p> <ul style="list-style-type: none"> a) AbulKalam Azad b) Annie Besant c) A.P.J. Abdul Kalam 	09
Pujasri Chakraborty	<p>Unit - II: Western Educators:</p> <p>Contribution of following great educators with special reference to Educational Philosophy, Aims of education, Curriculum, Method of Teaching Role of teacher & Relevance in Present day context.</p> <ul style="list-style-type: none"> · Bertrand Russel 	10

	· Madam Maria Montessori	
Md Abdul Latif Sk	Unit- IV: Some Experiments of Great Educators on Education: a) Viswa bharti and Rabindranath Tagore b) Basic education and Gandhiji c) Kindergarten and Froebel d) Laboratory school and John Dewey	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2020-2021
Course code & Title : EDU–H–CC–T–1;
Philosophical Foundation of Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit – IV : Schools of Philosophy A) Indian school of philosophy <ul style="list-style-type: none"> ● Meaning , nature and classifications in Indian schools of Philosophy ● Atheistic schools of Indian Philosophy – Buddhism, Jainism and Charvaka in terms of knowledge, reality and value and educational implications 	12
	Unit – II : Factors of Education g) Child : Meaning, characteristics and importance of child centric education h) Teacher : Qualities and duties of a good teacher, teacher as a motivator, mentor, facilitator and problem solver.	10

	<p align="center">Unit – III : Philosophical bases of Education</p> <p>d) Differences among Metaphysics, Epistemology and Axiology</p>	
PUJASRI CHAKRABORTY	<p>Unit – I : Education and Educational Philosophy</p> <p>d) Meaning, nature, scope and aims of education</p> <ul style="list-style-type: none"> ● Education as process and product, as Science and Arts ● Individualistic and socialistic aim (meaning, characteristics and difference) ● Report of Delor’s Commission (UNESCO, 1996) 	7
	<p>Unit – II : Factors of Education</p> <p>c) Curriculum : Meaning, nature and importance d) Co-curricular activities : Meaning, nature and importance of co-curricular activity, Principles of organizing co-curricular activity e) School : Vision and functions</p>	10
	<p align="center">Unit – III : Philosophical bases of Education</p> <p>j) Role of Metaphysics, Epistemology and Axiology in Education.</p>	
PUJASRI CHAKRABORTY	<p>Unit – I : Education and Educational Philosophy</p> <p>b) Educational Philosophy : Meaning, nature, scope and relation between education and philosophy</p>	7
	<p align="center">Unit – IV : Schools of Philosophy</p> <p>b) Western schools of Philosophy</p> <ul style="list-style-type: none"> ● Meaning and Nature ● Idealism, Naturalism, Pragmatism (Aims, Curriculum, Methods, Teacher & Discipline) and educational implications. 	12

	Unit – III : Philosophical bases of Education k) Philosophy: Concept and branches l) Concepts and nature of Metaphysics, Epistemology and Axiology	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2020-2021

Course code & Title :
EDU-H-CC-T-2; Sociological Foundation of Education
Core Course (Theoretical)

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit - I : Sociology and Educational Sociology a) Sociology : Meaning, emergence, nature and scope b) Educational sociology : Meaning, nature, scope and importance c) Relation between Education and Sociology d) Concept of Educational Sociology and Sociology of Education	14
	Unit - II : Social Factors, Issues and Education a) Culture : <ul style="list-style-type: none"> ● Concept, nature and elements ● Relation between individual and culture ● Relation between culture and society ● Role of education in culture b) Cultural lag : Concept, characteristics, causes, education and cultural lag	10
	Unit - IV: Social Change and Education b) Social change in India : <ul style="list-style-type: none"> · Privatization : Concept and relationship with education · Liberalization : Concept and relationship with education · Globalization : Concept and relationship with education 	
	Unit - II : Social Factors, Issues and Education c) Values : Concept, nature, types and role of education d) Social issues: <ul style="list-style-type: none"> ● Unemployment : Concept, types, causes, role of education in eradication of unemployment 	10

<p>PUJASRI CHAKRABORTY</p>	<ul style="list-style-type: none"> ● Poverty : Concept, causes and role of education in eradication of poverty ● Inequality : Concept, causes and role of education in eradication of inequality <p>Unit - III : Social Groups and Education a) Social groups : · Meaning, nature · Types: m) Primary Group : Meaning, characteristics and role n) Secondary Group : Meaning, characteristics and role o) Tertiary Group : Meaning, characteristics and role p) Comparison between primary group, secondary group and tertiary group</p> <p>Unit - IV: Social Change and Education c) Social Stratification : Definition, characteristics, causes; education and social stratification</p>	<p style="text-align: center;">12</p>
<p>MD ABDUL LATIF SK</p>	<p>Unit - III : Social Groups and Education b) Socialization :</p> <ul style="list-style-type: none"> ● Meaning and characteristics ● Significance of Socialization ● Factors of socialization ● Role of the family and school <p>c) Social Institutions and Agencies of Education: (i) Family, (ii) School, (iii) State, (iv) Mass media and (v) Religion</p> <p>Unit - IV: Social Change and Education d) Social change : Definition, characteristics, factors, constraints and education as an instrument of social change</p> <p>d) Social Mobility : Definition, characteristics, causes; education and social mobility</p>	<p style="text-align: center;">12</p> <p style="text-align: center;">5</p>

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GE) SEM -1 2020-2021

EDU-H-GE-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <ul style="list-style-type: none"> ● Meaning, Nature and Scope of Education. ● Individualistic and socialistic aim. <p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy.</p> <p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p>	10
Pujasri Chakraborty	<p>Unit-IV: Great Educators and their educational philosophy</p> <p>d) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey.</p> <p>Unit-II: Factors of Education:</p> <p>b) Teacher: Qualities and duties of a good teacher.</p>	12

Md Abdul Latif Sk	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p>	12
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 1 2020-2021
EDU-G-CC-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <p>a) Meaning, Nature and Scope of Education.</p> <p>b) Individualistic and socialistic aim.</p> <p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy</p>	10
Pujasri Chakraborty	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p> <p>Unit-IV: Great Educators and their educational philosophy</p> <p>a) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey</p>	20

Pujasri Chakraborty	Unit-II: Factors of Education: a) Child: Meaning and characteristics of child centric education system. b) Teacher: Qualities and duties of a good teacher. c) Curriculum: Meaning and Types. Co-curricular activities.	10
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-III 2020-2021
EDU-H-CC-T-5: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-II: Educational Statistics a) Concept, Scope and Need of Educational Statistics b) Concept of raw data, score, frequency distribution, range, variable. c) Organization and Tabulation of Data- Frequency distribution table	10
	Unit-III: Tools and Techniques of Evaluation a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test b) Techniques: Observation, CRC, Interview, Questionnaire and Inquiry. c) Characteristics of a good test: Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination.	14

MD ABDUL LATIF SK	Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses.	8
	Unit-I: Measurement and Evaluation in Education a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.	
	Unit-IV: Evaluation Process a) Evaluation Process: Concept, Types (Formative and Summative) b) Concept of Norm-Referenced Test and Criterion Referenced Test. c) Concept of Gradation and Credit system.	

NABADWIP VIDYASAGAR COLLEGE

Syllabus Modularization of Education Department

EDUCATION HONOURS SEMESTER-III 2020-2021

EDU-H-CC-T-6: Philosophical Foundation of Education-II Core Course.

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-1: Philosophical bases of Education a) Philosophical bases of Education b) Concepts and nature of Western Philosophy c) Concepts and nature of Metaphysics, Epistemology and Axiology d) Role of Metaphysics, Epistemology and Axiology in Education	10
PUJASRI CHAKRABORTY (PC)	Unit-2: Idealism and Education · Idealism: principle of Idealism, influence of idealism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8
MD ABDUL LATIF SK (LS)	Unit-3: Naturalism and Education · Naturalism: principle of Naturalism, influence of Naturalism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8

PUJASRI CHAKRABORTY (PC)	Unit-4: Pragmatism and Education · Pragmatism: principle of Pragmatism, influence of Pragmatism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION HONOURS Semester- III 2020-2021
EDU-H-CC-T-7: Inclusive Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit -IV: Inclusive School a) Infrastructural facilities for an ideal Inclusive School. b) Teachers Role in Inclusive Classroom	8
PUJASRI CHAKRABORTY (PC)	.Unit I: Inclusive Education concept and Nature a) Concept and principles of Inclusion. b) Need of Inclusive education. c) PWD Act (1994)	8

PUJASRI CHAKRABORTY (PC)	Unit III: Inclusive Education and its Practices. a) Differentiating Instruction. •Peer Tutoring •Co-operative learning •Inclusive lesson planning. b) Inclusive Instructional Strategies at school level. •Remedial Help. •Team Teaching. •Circles of Friends	12
MD ABDUL LATIF SK (LS)	Unit II: Competencies development for Inclusive Education. a) Theories of Inclusive Education b) Development of Attitude, Positive Behaviour & social skill for Inclusion	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (HONOURS) SEMESTER-III 2020-2021
EDU-H-SEC-T-1(A): Statistical Analysis
Skill Enhancement Course.

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application. b) Measure of Variability- Range, AD, SD and QD- their Properties, Calculation and Application)	12

PUJASRI CHAKRABORTY (PC)	Unit-I: Descriptive Statistics c) Percentile and Percentile Rank- Definition, Calculation, Application, Graphical Determination.	10
MD ABDUL LATIF SK (LS)	Unit-II: Relationship and Inferential Statistics a) Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10
PUJASRI CHAKRABORTY (PC)	b) Parametric and Non-Parametric Test- (only Concept and Uses). Practical: Calculate – Mean, Median and Mode; Range, AD, SD & QD; PP, PR; Co-relation; Standard score & Z score from different frequency distribution	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (HONOURS) SEMESTER-III 2020-2021
EDU-H-SEC-T-1(B): Achievement Test
Skill Enhancement Course

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Concept of Achievement test a) Meaning & definition of Achievement test	8

PUJASRI CHAKRABORTY (PC)	Unit-I: Concept of Achievement test b) Characteristics of Achievement Test c) Objectives of Achievement Test	10
PUJASRI CHAKRABORTY (PC)	Unit-II: Different aspects of Achievement Test a) Principles of Achievement test construction	8
MD ABDUL LATIF SK (LS)	Unit-II: Different aspects of Achievement Test b) Steps involved in the construction of Achievement Test Practical: Construct of an Achievement Test	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEM III 2020-2021
EDU-H-GE-T-3: Educational Sociology

Name of the Teacher	Topic	No of Classes
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MD ABDL LATIF SK	<p>Unit-I: Educational Sociology</p> <p>a) Meaning, nature and scope of Educational sociology.</p> <p>b) Relation between education and sociology.</p> <p>c) Concept of Educational sociology and sociology of education.</p>	8
PUJASRI CHAKRABORTY	<p>Unit-II: Social factors, issues and Education</p> <p>a) Culture: Concept, role of education in culture, cultural lag.</p> <p>b) Social issues: unemployment, poverty, disadvantage section of Indian society (SC, ST and OBC).</p>	8
MD ABDUL LATIF SK	<p>Unit-IV: Social change and Education</p> <p>a) Social change: definition, characteristics, factors, constraints</p> <p>b) Education and social stratification: Definition and characteristics</p> <p>c) Education and Social Mobility</p>	10
PUJASRI CHAKRABORTY	<p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p> <p>b) Teacher: Qualities and duties of a good teacher.</p> <p>c) Curriculum: Meaning and Types. Co-curricular activities.</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2020-2021
EDU-G-CC-T-3: Educational Sociology

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Educational Sociology a) Meaning, nature and scope of Educational sociology. b) Relation between education and sociology. c) Concept of Educational sociology and sociology of education	8
MD ABDUL LATIF SK	Unit-II: Social factors, issues and Education a) Culture: Concept, role of education in culture, cultural lag. b) Social issues: unemployment, poverty, disadvantage section of Indian society (SC, ST and OBC).	8
PUJASRI CHAKRABORTY	Unit-III: Social groups and Education a) Social groups- meaning and types (Primary, Secondary and Tertiary) b) Socialization: Meaning, process and factors of socialization, role of the family and school. c) Social Institutions and Agencies of Education: (i) Family, (ii) School.	8
MD ABDUL LATIF SK	Unit-IV: Social change and Education 1. Social change: definition, characteristics, factors, constraints.	8

	2. Education and social stratification: Definition and characteristics.	
	3. Education and Social Mobility.	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2020-2021
EDU-G-SEC-T-1(A): Statistical Analysis

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application.	8
MD ABDUL LATIF SK	Practical: Calculate - Mean, Median and Mode; Range, SD ; Co-relation from different frequency distribution	8
MD ABDUL LATIF SK	Unit-I: Descriptive Statistics b) Measure of Variability- Range, SD and - their Properties, Calculation and Application	8
PUJASRI CHAKRABORTY	Unit-II: Coefficient of correlation Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2020-2021
EDU-G-SEC-T-1(A): Statistical Analysis

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application.	8
MD ABDUL LATIF SK	Practical: Calculate - Mean, Median and Mode; Range, SD ; Co-relation from different frequency distribution	8
MD ABDUL LATIF SK	Unit-I: Descriptive Statistics b) Measure of Variability- Range, SD and - their Properties, Calculation and Application	8
PUJASRI CHAKRABORTY	Unit-II: Coefficient of correlation Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER V 2020-2021
EDU-H-CC-T-11: Educational Management

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-II: Educational Administration and Supervision a) Educational Administration: meaning and function. b) Supervision: meaning, purpose; difference between Supervision and Inspection. c) Factors affecting managerial behaviour of teachers: Personal, Social, Cultural, Political and Institutional.	12
PUJASRI CHAKRABORTY (PC)	Unit-IV: Functions of Various Administrative Bodies a) UGC, b) NAAC, c) NCERT, d) NCTE.	10
PUJASRI CHAKRABORTY (PC)	Unit-I: Concept of Educational Management a) Educational Management: Meaning, Nature, Scope, Function and Needs. b) Types of Educational Management: Centralization, Decentralization, Autocratic, Democratic and Laissez-fair.	12

MD ABDUL LATIF SK (LS)	Unit-III: Educational Planning a) Educational Planning: Meaning, Needs and Significance. b) Types of Educational Planning; Strategies and Steps in Educational Planning. c) Brief outline of the last Five Year Plan in Primary and Secondary Education	12
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER V 2020-2021

EDU-H-CC-T-12: Educational Technology

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-IV: Phases, Levels, and Models of Teaching a) Phases of Teaching: Pre-active, Inter-active & Post-active. b) Levels of Teaching: Memory, Understanding, Reflective. c) Models of Teaching: Concept, Components, Families, Glaser's Basic Teaching Model, Bruner's Concept Attainment Model.	12
PUJASRI CHAKRABORTY (PC)	Unit-I: Educational Technology a) Meaning, Nature, Need and Scope of Educational Technology b) Technology in Education and Technology of Education c) Approaches of ET: Hardware, Software, and System	10
MD ABDUL LATIF SK (LS)	Unit-III: Instructional Technology a) Mass Instructional Technology- Seminar, Discussion, Panel Discussion. Team teaching b) Personalized Instructional Techniques- Programmed Instruction- meaning, principles, types, merits and demerits c) Computers and its role in educational instruction	12

<p>PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-II: Classroom Communication and Media used a) Meaning, Nature, Types, and Components of Communication b) Barriers of classroom communication and strategies of overcoming barriers in communication c) Media used in education: Audio (Radio), Visual (Projector), Audio-visual (TV)- merits and demerits</p>	<p>10</p>
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2020-2021
EDU-H-DSE-T-1/2(A): Value Education

<p>Name of the Teacher</p>	<p>Topic</p>	<p>No of Classes</p>
<p>MD ABDUL LATIF SK</p>	<p>UNIT-I: Meaning and nature of Value a) Value: Meaning and Nature b) Values enshrined in Indian constitution. c) Classification of values proposed by NCERT</p>	<p>09</p>
<p>PUJASRI CHAKRABORTY</p>	<p>UNIT-II: Value Education a) Value Education: concept and objective. b) Need for value education in India</p>	<p>08</p>

MD ABDUL LATIF SK	UNIT-III: Value Education in School a) Value Education through Curriculum. b) Value Education through Co-Curricular Activities. c) Role of teachers to facilitate development of values among the learners.	15
PUJASRI CHAKRABORTY	UNIT-IV: Strategies of value education a) Storytelling. b) Play-way Method. c) Role plays.	09

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2020-2021
EDU-H-DSE-T-1/2(B): Population Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-1: Meaning and Concept of Population Education a) Meaning & Concept of Population Education b) Scope & objectives of Population Education.	10

PUJASRI CHAKRABORTY	<p>Unit-IV: Population Education Curriculum and Policy</p> <p>a) Curriculum of Population education at different stages. b) Role of population policy in India. c) Role of Teacher in making awareness of population explosion. d) Community sensitisation programme of early marriage and child labour etc.</p>	12
PUJASRI CHAKRABORTY	<p>Unit-II: Historical Development of Population Education</p> <p>a) Historical development of Population Education and education programme in India. b) Some major thrust areas of population education-- Family planning · Adolescent education</p>	09
MD ABDUL LATIF SK	<p>Unit-III: Population Growth and Problems in India</p> <p>a) Definition of population growth. b) Factors influencing population growth- fertility, mortality, and migration. c) Causes of rapid population growth d) Preventive measures for rapid population growth.</p>	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2020-2021

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	UNIT-1: Concept of Peace Education a) Peace Education : Meaning, nature, aims, objectives & scope b) Need of Peace Education. c) Factors of peace education: unemployment, terrorism, religion.	10
PUJASRI CHAKRABORTY	UNIT-2: Key Thinkers of Peace Education a) Indian Context: · Rabindranath Tagore, · Sri Aurobinda b) Global context: · Montessori · John Dewe	12
MD ABDUL LATIF SK	UNIT-4: Approaches of Peace Education a) Participatory Education b) Co-operative Learning	09
PUJASRI CHAKRABORTY	UNIT-3: Peace Education Programme a) Principles of peace education b) Curriculum and Peace Education. c) Quality of a teacher as a peace educator	08

EDU-H-DSE-T-1/2(C): Peace Education

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2020-2021
EDU-H-DSE-T-1/2(D): Distance Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit I: Concept of Distance & Open Education a) Meaning and definition of Distance Education. b) Characteristics and objectives of Distance Education. c) Merits and limitations of Distance Education.	12
PUJASRI CHAKRABORTY	Unit II: Strategies of distance education a) Mode and strategies of Distance Education. b) Relationship among Non-formal, Correspondence, Distance and Open Education.	10
PUJASRI CHAKRABORTY	Unit III: Status of open and distance education in India a) Present state of Distance and Open Education in India. b) Role of multi-media in Distance and Open Education.	08
MD ABDUL LATIF SK	Unit IV: Problems and remedies of distance and open education in India a) Salient features of the Indira Gandhi National Open University (IGNOU) and National Open School. b) Problems of Distance and Open Education in India.	10

	c) Measures for strengthening Distance and Open Education in India.	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2020-2021
EDU-G-GE-T-1: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>Unit-I: Measurement and Evaluation in Education</p> <p>a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement.</p> <p>b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.</p>	10
MD ABDUL LATIF SK	<p>Unit-II: Educational Statistics</p> <p>a) Concept, Scope and Need of Educational Statistics</p> <p>b) Concept of raw data, score, frequency distribution, range, variable.</p> <p>c) Organization and Tabulation of Data- Frequency distribution table</p>	10
PUJASRI CHAKRABORTY	<p>Unit-IV: Evaluation Process a) Evaluation Process: Concept, Types (Formative and Summative)</p> <p>b) Concept of Norm-Referenced Test and Criterion Referenced Test</p> <p>c) Concept of Gradation and Credit system</p>	10

MD ABDUL LATIF SK	<p>Unit-III: Tools and Techniques of Evaluation</p> <p>a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test</p> <p>b) Techniques: Observation, CRC, Interview, Questionnaire and Inquiry. c) Characteristics of a good test: o Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination. Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses</p>	14
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Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Guidance services: Meaning, nature, and importance of the following guidance services: Individual Inventory Services, Testing services, Counselling services.	8
MD ABDUL LATIF SK	Unit-II: Organizing guidance services at educational institution: a) Pre-requisites for organizing guidance services b) Organizing guidance services at school and college level .	7
PUJASRI CHAKRABORTY	Unit-I: Guidance services: Information service, Placement service, Follow up service.	8
MD ABDUL LATIF SK	Unit-II: Organizing guidance services at educational institution: c) Role of teachers in organizing guidance services.	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2020-2021
EDU-G-SEC-T-3(B): Life skill Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit I: Introduction to life skill education a) Life Skills: Concept, core life skills and their applications.	8
MD ABDUL LATIF SK	Unit II: Strategies for life skill Education a) Coping with Emotions: Definition, Characteristics, Types, Coping Strategies	7
PUJASRI CHAKRABORTY	Unit II: Strategies for life skill Education b) Coping with Stress: Definition, Stressors, Sources of Stress, Coping Strategies.	4
MD ABDUL LATIF SK	Unit I: Introduction to life skill education b) Life Skill education: concept, nature and scope, Distinction between life skill education and sex education. c) Social skill, Negotiation skill, Thinking skill and Problem solving skill	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2020-2021
EDU-G-DSE-T-1/2(A): Value Education

Name of the Teacher	Topic	No of Classes
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PUJASRI CHAKRABORTY	UNIT-I: Meaning and nature of Value a) Value: Meaning and Nature b) Values enshrined in Indian constitution. c) Classification of values proposed by NCERT	
MD ABDUL LATIF SK	UNIT-III: Value Education in School a) Value Education through Curriculum. b) Value Education through Co-Curricular Activities. c) Role of teachers to facilitate development of values among the learners	
PUJASRI CHAKRABORTY	UNIT-II: Value Education a) Value Education: concept and objective. b) Need for value education in India	
MD ABDUL LATIF SK	UNIT-IV: Strategies of value education a) Storytelling. b) Play-way Method. c) Role plays	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2020-2021
EDU-G-DSE-T-1/2(B): Population Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>Unit-1: Meaning and Concept of Population Education</p> <p>a) Meaning & Concept of Population Education</p> <p>b) Scope & objectives of Population Education</p>	8
MD ABDUL LATIF SK	<p>Unit-II: Historical Development of Population Education</p> <p>c) Historical development of Population Education and education programme in India.</p> <p>d) b) Some major thrust areas of population education-</p> <p>· Family planning · Adolescent education</p>	7
PUJASRI CHAKRABORTY	<p>Unit-IV: Population Education Curriculum and Policy</p> <p>a) Curriculum of Population education at different stages.</p> <p>b) Role of population policy in India.</p> <p>c) Role of Teacher in making awareness of population explosion.</p> <p>d) Community sensitisation programme of early marriage and child labour etc.</p>	8
MD ABDUL LATIF SK	<p>Unit-III: Population Growth and Problems in India</p> <p>a) Definition of population growth.</p> <p>b) Factors influencing population growth- fertility, mortality, and migration.</p> <p>c) Causes of rapid population growth</p> <p>d) Preventive measures for rapid population growth.</p>	7

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2020-2021
EDU-G-DSE-T-1/2(C): Peace Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	UNIT-II: Key Thinkers of Peace Education Indian Context: <ul style="list-style-type: none"> · Rabindranath Tagore, · Sri Aurobindo Global context: · Montessori · John Dewey 	8
PUJASRI CHAKRABORTY	UNIT-I: Concept of Peace Education <ul style="list-style-type: none"> · Peace Education: Meaning, nature, aims, objectives & scope · Need of Peace Education. · Factors of peace education: unemployment, terrorism, religion. 	7
MD ABDUL LATIF SK	UNIT-III: Peace Education Programme in School <ul style="list-style-type: none"> · Principles of peace education · Curriculum and Peace Education. · Quality of a teacher as a peace educator 	8
PUJASRI CHAKRABORTY	UNIT-IV: Approaches of Peace Education <ul style="list-style-type: none"> · Participatory Education · Co-operative Learning 	7

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2020-2021
EDU-G-DSE-T-1/2(D): Distance Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit IV: Problems and remedies of distance and open education in India a) Salient features of the Indira Gandhi National Open University (IGNOU) and National Open School. b) Problems of Distance and Open Education in India. c) Measures for strengthening Distance and Open Education in India	8
MD ABDUL LATIF SK	Unit I: Concept of Distance & Open Education a) Meaning and definition of Distance Education. b) Characteristics and objectives of Distance Education. c) Merits and limitations of Distance Education.	7
PUJASRI CHAKRABORTY	Unit II: Strategies of distance education a) Mode and strategies of Distance Education. b) Relationship among Non-formal, Correspondence, Distance and Open Education.	8
MD ABDUL LATIF SK	Unit III: Status of open and distance education in India a) Present state of Distance and Open Education in India.	7

	b) Role of multi-media in Distance and Open Education.	
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Syllabus Modularization of Education Department
Education (Honours) SEMESTER-II 2020-2021
EDU-H-CC-T-3: Psychological Foundation of Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p>Unit-I: Educational Psychology and Development</p> <p>a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology.</p> <p>b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive and Language development of Infancy, Childhood and Adolescence period and respective educational programmes.</p> <p>c) Piaget's theory of Cognitive Development</p>	12
	<p>Unit-IV: Personality</p> <p>a) Definition; Heredity & Environment as determinants of Personality.</p> <p>b) Type and Trait theory, Psychoanalytical theory</p> <p>c) Measurement of Personality- projective test</p> <p>d) Individual differences –meaning and implications.</p>	
PUJASRI CHAKRABORTY	<p>Unit-II: Learning</p> <p>a) Definition and characteristics of Learning; Factors influencing learning</p> <p>b) Theories of learning and their implications: Classical and Operant conditioning, Trial and Error, Insightful Learning</p> <p>c) Transfer of Learning: Concept & Types.</p> <p>d) Motivation: Types, factors and Role of Motivation in learning</p> <p>e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes</p>	10
	<p>Unit-III: Intelligence & Creativity</p> <p>a) Intelligence: Definition; Theories of Intelligence and their implications- Spearman, Thurston, Guilford and Gardner; Measurement of Intelligence- verbal and non-verbal</p> <p>b) Creativity: meaning, nature, factors, and nurturing.</p>	

Syllabus Modularization of Education Department
Education (Honours) SEMESTER-II 2020-2021
EDU-H-CC-T-4: History of Education in Colonial India

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit: I: Education in 19th Century in India a) Charter Act of 1813 b) Oriental –Occidental Controversy c) Macaulay’s Minute d) Bentinck’s Declaration e) Wood’s Despatch: Context, Recommendations, Criticism and Educational Significance f) Indian Education Commission: Background, Composition of the Commission, Criticism and Educational Significance	10
PUJASRI CHAKRABORTY	Unit: II: Bengal Renaissance and Its Influence on Education a) Concept Bengal Renaissance b) Causes of Bengal Renaissance c) Characteristics of Bengal Renaissance d) Contribution of Raja Rammohan Roy, Derozio and Vidyasagar in Education. e) Impact of Bengal Renaissance on Education,	12
MD ABDUL LATIF SK	Unit: III: Educational policy of Lord Curzon and National Education Movement a) Simla Conference 1901 b) The Indian Universities Commission 1902 c) The Indian Universities Act 1904 d) Govt. of India’s Resolution on Indian Educational Policy 1904 e) Curzon contribution in Indian Education National Education Movement a) Characteristics, of National Education Movement, b) Causes of National Education Movement c) Objective of National Education Movement d) Different Phases of National Education Movement e) Causes of Failure of the Movement f) Influence of the National Education Movement on Future Development of Indian Education	12
PUJASRI CHAKRABORTY	Unit: IV: Commission in between 1st and 2nd world war The Calcutta University Commission (Sadler Commission) 1917-1919 a) Context	12

	b) Recommendation c) Criticism d) Results Basic Education: a) Concepts b) Characteristics Merits & Demerits The post-war plan of educational development (Sargent Plan) 1944 a) Context b) Objective c) Recommendations d) Criticise e) Results	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GE) SEM 2 2020-2021
EDU-H-GE-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget's view) of Infancy, Childhood and Adolescence period and respective educational programmes.	15
Pujasri Chakraborty	Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning c) Transfer of Learning: Concept & Types (Positive, Negative & Zero) d) Motivation: Types, factors and Role of Motivation in learning	12

	e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes.	
Md Abdul Latif Sk	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston. b) Creativity: meaning, factors, and nurturing.	10
Pujasri Chakraborty	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL/PCC) SEM- 2 2020-2021
EDU-G-CC-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning c) Transfer of Learning: Concept & Types (Positive, Negative & Zero) d) Motivation: Types, factors and Role of Motivation in learning e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes	15

MD ABDUL LATIF SK	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston. b) Creativity: meaning, factors, and nurturing.	12
PUJASRI CHAKRABORTY	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget's view) of Infancy, Childhood and Adolescence period and respective educational programmes.	15
MD ABDUL LATIF SK	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications.	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2020-2021

SEMESTER-IV EDU-H-CC-T-8: History of Education in Post-Independence India

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-IV: National Policies on Education a) National Policy on Education (1968) b) National Policy on Education (1986) c) Programme of Action (POA)- 1992 i) Ramamurti Committee (1990-91)	12

	ii) Janardhan Reddy Committee (1992)	
MD ABDUL LATIF SK	Unit-I: Education and Constitution a) Preamble and various Articles on Education in Indian Constitution b) RTE Act-2009 c) Development of Education under Plan (Last two plans)	10
PUJASRI CHAKRABORTY	Unit-II: Education Commission in post Independent India a) University Education Commission (1948-49) b) Secondary Education Commission (1952-53) c) Indian Education Commission (1964-66)	8
MD ABDUL LATIF SK	Unit-III: Some Educational Bodies in West Bengal (Function only) A) SCERT, b) DIET. Unit-II: Education Commission in post Independent India d) Ashoke Mitra Commission (1991-92)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2020-2021
EDU-H-CC-T-9: Psychology of Instruction

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Teaching a) Science of Teaching- Relation between teaching and learning; b) Factors affecting teaching process, Input and Output variables; c) Maxims of teaching; Fundamentals of teaching.	10
MD ABDUL LATIF SK	Unit-IV: Teaching Methods a) Meaning, nature, merits and demerits- Lecture, Demonstration, Project, Problem Solving, and, Story-telling.	8

MD ABDUL LATIF SK	Unit-III: Teacher and Classroom Teaching a) Nature of classroom teaching. b) Difference between traditional and constructivist teaching; c) Micro-teaching- meaning , nature, merits and demerits	8
PUJASRI CHAKRABORTY	Unit-II: Teacher Behaviour a) Observation of classroom behaviour: Flander's Interaction analysis. b) Characteristics of a good teacher.	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2020-2021
EDU-H-CC-T-10: Contemporary issues in Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-III: Higher Education and RUSA a) Role of Higher Education b) Knowledge Commission & Higher Education c) Higher Education and RUSA d) Problems of Higher Education in India	8
PUJASRI CHAKRABORTY (PC)	Unit-IV: Issues in Education a) Peace Education: Meaning, aims & objectives, need. b) Education for Sustainable Development: Meaning, aims & objectives, Role of education in Sustainable Development. c) Inclusive Education: Meaning, Need & Govt, programme. d) Open & Distance Learning System: Meaning, Characteristics and need.	10

MD ABDUL LATIF SK (LS)	<p>Unit-II: Universalization of Secondary Education Meaning, aims & objectives, significance; Role of RMSA, Problems.</p> <p>Unit-IV: Issues in Education e) Equality and Equity in Education: Meaning, importance, causes of inequality, Role of education to remove inequality in education. f) Women Education: Importance, problems</p>	10
PUJASRI CHAKRABORTY (PC)	<p>Unit-I: Universalization of Elementary Education Universalization of Elementary Education- Meaning, Constitutional Provision with special reference to RTE Act; Aims and Objectives, Importance, Role of DPEP; SSA-SSM, Problems.</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2020-2021
EDU-H-SEC-T-2(A): Lesson Planning

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	<p>Unit-I: Concept of Lesson Planning a) Definition & Meaning of Lesson Plan b) Characteristics of Lesson Plan c) Advantages of Lesson Plan</p>	10
PUJASRI CHAKRABORTY (PC)	<p>Unit-I: Concept of Lesson Planning c) Advantages of Lesson Plan</p>	05

MD ABDUL LATIF SK (LS)	Unit-II: Different aspects of Lesson Plan a) Types of Lesson Plan b) Steps involved in Lesson Planning c) Principles of development of Lesson Plan	09
PUJASRI CHAKRABORTY (PC)	Unit-II: Different aspects of Lesson Plan c) Principles of development of Lesson Plan	05

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2020-2021
EDU-G-CC-T-4: History of Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	.Unit-I: Education in 19th Century in India a) Charter Act of 1813 and its educational significance b) Macaulay Minuets- (1835)- its educational significance c) Bengal Renaissance- Contribution of Raja Ram Mohan Roy & Derozio. d) Wood's Despatch (1854) and its impact on education. e) Indian Education Commission (1882-83) and its impact of education.	10
MD ABDUL LATIF SK	Unit-II: Education in 20th Century in India (1901-1944) a) Educational reformer Lord Curzon b) National education movement- Causes, Phases and Importance in Education. c) Basic Education- Concept, characteristics, merits and demerits.	10

	d) Sargent Plan Report (1944)- Pre-primary education, Primary education, Secondary education, Vocational & Technical education.	
PUJASRI CHAKRABORTY	<p>Unit-III: Education in Post-Independence India</p> <p>a) University Education Commission (1948-49) -Aims and Objective, Rural University Examination System, Teacher and Teaching Education, Vocational Education, Women Education.</p> <p>b) Secondary Education Commission (1952-53) -Structure of Education system, Aims and Objective, Curriculum and Evaluation system and Language Policy</p> <p>c) Indian Education Commission (1964-66) - Structure of Education system, Aims and Objective, Curriculum, Language Policy, Exam System and Teacher Education, Equality in Educational Opportunity.</p>	10
MD ABDUL LATIF SK	<p>Unit-IV: National Policy on Education</p> <p>a) National Policy on Education (1986) -National System of Education, Equality in Education, ECCE, Operation Black Board, NavadayVidyalaya.</p> <p>b) Revised National Policy on Education-1992</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2020-2021
EDU-G-SEC-T-2(A): Lesson Planning

Name of the Teacher	Topic	No of Classes
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PUJASRI CHAKRABORTY	Unit-I: Concept of Lesson Planning a) Definition & Meaning of Lesson Plan b) Characteristics of Lesson Plan	8
MD ABDUL LATIF SK	Unit-II: Different aspects of Lesson Plan a) Types of Lesson Plan b) Steps involved in Lesson Planning c) Principles of development of Lesson Plan	8
MD ABDUL LATIF SK	Practical: Development of Lesson Plan (At least 20).	10
PUJASRI CHAKRABORTY	Unit-I: Concept of Lesson Planning c) Advantages of Lesson Plan	7

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2020-2021
EDU-G-SEC-T-2(B): Use of Teaching aids

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Concept of Teaching Aids a) Definition & Meaning of Teaching Aids b) Characteristics of Teaching Aids c) Utility of Teaching Aids	8
MD ABDUL LATIF SK	Unit-II: Different Types of Teaching Aids a) Classification of Teaching Aids (Concept only) b) Projected Teaching Aids- OHP, Slide Projection, Film Strip (Concept, principles of construction, uses)	10

PUJASRI CHAKRABORTY	Unit-I: Concept of Teaching Aids d) Limitations of Teaching Aids Unit-II: Different Types of Teaching Aids c) Non-Projected Teaching Aids- Model, Chart, Poster (Concept, principles of construction, uses)	10
MD ABDUL LATIF SK	Practical: Development of Teaching Aids	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- VI, Education (Honours) 2020-2021
EDU-H-CC-T-13: Curriculum Studies

Name of the Teacher	Topic	No of Classes
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PUJASRI CHAKRABORTY (PC)	Unit-I: Introduction of Curriculum a) Meaning, Nature, Scope and functions of Curriculum b) Determinants of Curriculum c) Difference and Relation between Curriculum and Syllabus. d) Different Types of Curriculum .	10
PUJASRI CHAKRABORTY (PC)	Unit-IV: Curriculum Theories a) Definition b) Types (only concept) c) Technical & Non-Technical Model (One theory from each category) Unit-I: Introduction of Curriculum e) Co-curricular Activities f) Bases of Curriculum: Philosophical, Sociological & Psychological.	12
MD ABDUL LATIF SK (LS)	Unit-III: Curriculum Evaluation a) Meaning & importance of curriculum evaluation b) Formative and summative evaluation of curriculum: concept & difference between them.	05
MD ABDUL LATIF SK (LS)	Unit-II: Concept of Curriculum Framework a) Curriculum Framework: Meaning b) NCF-2005 c) Principles of curriculum construction	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- VI, Education (Honours) 2020-2021
EDU-H-CC-T-14: Educational Research

Name of the Teacher	Topic	No of Classes
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<p>MD ABDUL LATIF SK (LS)</p>	<p>. Unit-II: Educational Research- meaning, nature and types</p> <ul style="list-style-type: none"> ● Meaning, nature & scope of Educational Research ● Types of research: Basic, Applied & Action Research; Longitudinal and Cross Sectional ● Research. Historical, ● Descriptive and Experimental research (meaning only) ● c) Importance of Educational Research. 	<p>12</p>
<p>MD ABDUL LATIF SK (LS)</p>	<p>Unit-IV: Research Data:</p> <ul style="list-style-type: none"> ● Qualitative and Quantitative data ● Tool of data collection- characteristics, merits and demerits of questionnaire and interview ● Descriptive and Inferential statistics (meaning only) ● d) Steps of testing hypotheses 	<p>12</p>
<p>PUJASRI CHAKRABORTY (PC)</p>	<p>. Unit-III: Basic Ideas of Research</p> <ul style="list-style-type: none"> ● Characteristics of a good research problem ● Review of related Literature – purpose ● Variable – dependent and independent ● Research Hypothesis – meaning, nature and types ● e) Population , Sample and sampling technique- meaning 	<p>15</p>
<p>PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-I: Research-meaning and nature</p> <ul style="list-style-type: none"> ● Meaning and nature of research ● Sources of knowledge (Authority, Tradition, Personal Experience, Deduction, Induction.) ● c) Need of research in Education 	<p>10</p>

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit- I: Concept of Mental Hygiene a) Definition of Mental Hygiene b) Aims of Mental Hygiene c) Scope of Mental Hygiene	09
PUJASRI CHAKRABORTY	Unit-II: Concept of Mental Health a) Definition of mental health b) Symptoms of good mental health c) Causes of ill mental health	08
PUJASRI CHAKRABORTY	Unit-III: Classification of Mental disorder (Identification Characteristics, causes and treatment only) b) DSM-IV: · Axis- I: Depression · Axis- II: Obsessive compulsive disorder (OCD) · Axis- III: Bipolar mood disorder · Axis- IV: Occupational disorder · Axis- VI: Truancy b) Common Axis: · Common Axis-I: Anxiety · Common Axis-II: Personality disorder · Common Axis-III: Conflict	15
MD ABDUL LATIF SK	Unit-IV: Prevention of Mental Hygiene a) Role of parents in preserving mental illness of children b) Role of Teachers in preserving mental illness of children in the Educational Institution c) Relation between Mental Hygiene and Adjustments	09

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-VI 2020-2021
EDU-H-DSE-T-3/4(A): Mental Hygiene Discipline Specific Elective Course

Name of the Teacher	Topic	No of Classes
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MD ABDUL LATIF SK	Unit-I: Meaning, Nature, Scope, and Methods of Comparative Education a) Meaning, nature, scope and importance of Comparative Education. b) Methods of Comparative Education: Philosophical Method ii) Historical Method iii) Sociological Method iv) Psychological Method v) Scientific Method	10
PUJASRI CHAKRABORTY	Unit-II: Factors of Comparative Education: a) Natural Factors: Historical, Racial, Linguistic and Social Factors. b) Spiritual Factors: Religious and Philosophical Factors. c) Secular Factors: Factor of Humanism, Socialism, Nationalism and Democracy	12
PUJASRI CHAKRABORTY	Unit-III: Universalization of Elementary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Elementary Education System.	09
MD ABDUL LATIF SK	Unit-IV: Universalization of Secondary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Secondary Education System	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Concept of Guidance a) Meaning, Nature, Scope, and Importance of Guidance. b) Different Types of Guidance i) Educational: Meaning, Characteristics, Purpose & Functions. ii) Vocational: Meaning, Characteristics, Purpose & Functions. iii) Personal: Meaning, Characteristics, Purpose & Functions.	10
PUJASRI CHAKRABORTY	Unit-II: Concept of Counselling a) Meaning, Nature, Scope, and Importance of Counselling b) Types of Counselling i) Directive: Meaning, Characteristics, Purpose & Functions. ii) Non-directive: Meaning, Characteristics, Purpose & Functions. iii) Eclectic: Meaning, Characteristics, Purpose & Functions. c) Steps of Counselling; Characteristics of good Counsellor.	12
PUJASRI CHAKRABORTY	Unit-III: Tools and Techniques of Guidance and Counselling a) Basic data necessary for Educational Guidance- Pupils abilities, Aptitudes, Interests and Attitudes, Educational Attainments and Personality Traits. b) Difference between Guidance, Counselling and Teaching.	09

MD ABDUL LATIF SK	Unit-IV: Guidance and Counselling for Diverse Learners a) Identification of Gifted, Slow learners, Learner with learning disabilities. b) Need of Guidance for diverse learners c) Need of Counselling for diverse learner	08
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Education (Honours) SEMESTER-VI 2020-2021

**EDU-H-DSE-T-3/4 (C): Guidance & Counselling
Discipline Specific Elective Course.**

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-VI 2020-2021
EDU-H-DSE-T-3/4(D): Great Educators
Discipline Specific Elective Course.

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit – I: Indian Educators: Contribution of following great educators with special reference to Educational Philosophy, aims of education, Curriculum, Method of Teaching, Role of teacher & Relevance in Present day context. Swami Vivekananda Shri Aurobinda.	12
PUJASRI CHAKRABORTY	Unit - II: Western Educators: Contribution of following great educators with special reference to Educational Philosophy, Aims of education, Curriculum, Method of Teaching Role of teacher & Relevance in Present day context. Bertrand Russel Madam Maria Montessori	10
MD ABDUL LATIF SK	Unit - III: Modern Thinkers on Education in India a) S. Radhakrishnan b) Ashutosh Mukherjee c) AbulKalam Azad	08
PUJASRI CHAKRABORTY	Unit- IV: Some Experiments of Great Educators on Education: a) Viswabharati and Rabindranath Tagore b) Basic education and Gandhiji c) Kindergarten and Froebel d) Laboratory school and John Dewey	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6) 2020-2021
EDU-G-SEC-T-4(A) : Pedagogical knowledge

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Meaning and Nature of Pedagogy a) Meaning, definition, characteristics & need of Pedagogy. b) Scope of Pedagogy.	8
MD ABDUL LATIF SK	Unit-II: Pedagogical Approaches a) Lecture Method b) Heuristic Method c) Project Method	7
PUJASRI CHAKRABORTY	Unit-I: Meaning and Nature of Pedagogy c) Difference between Pedagogy & Andragogy d) Aims and Objectives of following disciplines at secondary level: · Language · Social Science · Science · Mathematics	10
PUJASRI CHAKRABORTY	Unit-II: Pedagogical Approaches d) Demonstration Method e) Laboratory Method f) Collaborative Method	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6) 2020-2021
EDU-G-SEC-T-4(B) : Yoga Education

Name of the Teacher	Topic	No of Classes
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MD ABDUL LATIF SK	Unit-I: Concept of Yoga Education a) Meaning and definition, and nature of Yoga Education b) Types and aims of Yoga Education	8
MD ABDUL LATIF SK	Unit-II: Yoga and Health a) Need of Yoga for good health b) Yogic concept of healthy life style	7
PUJASRI CHAKRABORTY	Practical: Practical Asanas and Pranayam	10
PUJASRI CHAKRABORTY	Unit-I: Concept of Yoga Education c) Role of teachers in implementing Yoga Education Unit-II: Yoga and Health c) Yoga for reduction of stress	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2020-2021
EDU-G-GE-T-1: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Measurement and Evaluation in Education a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.	10

MD ABDUL LATIF SK	<p>Unit-II: Educational Statistics</p> <p>a) Concept, Scope and Need of Educational Statistics</p> <p>b) Concept of raw data, score, frequency distribution, range, variable.</p> <p>c) Organization and Tabulation of Data- Frequency distribution table</p>	10
PUJASRI CHAKRABORTY	<p>Unit-IV: Evaluation Process a) Evaluation Process: Concept, Types (Formative and Summative)</p> <p>b) Concept of Norm-Referenced Test and Criterion Referenced Test</p> <p>c) Concept of Gradation and Credit system</p>	10
MD ABDUL LATIF SK	<p>Unit-III: Tools and Techniques of Evaluation</p> <p>a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test</p> <p>b) Techniques: Observation, CRC, Interview, Questionnaire and Inquiry. c) Characteristics of a good test: o Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination. Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses</p>	14

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2020-2021
EDU-G-DSE-T-3/4(A): Mental Hygiene

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	Unit-II: Concept of Mental Health a) Definition of mental health b) Symptoms of good mental health c) Causes of ill mental health	8
Md Abdul Latif Sk	Unit- I: Concept of Mental Hygiene a) Definition of Mental Hygiene b) Aims of Mental Hygiene c) Scope of Mental Hygiene	7
Pujasri Chakraborty	Unit-IV: Prevention of Mental Hygiene a) Role of parents in preserving mental illness of children b) Role of Teachers in preserving mental illness of children in the Educational Institution c) Relation between Mental Hygiene and Adjustment	7
Md Abdul Latif Sk	Unit-III: Classification of Mental disorder (Identification Characteristics, causes and treatment only) a) DSM-IV: · Axis- I: Depression · Axis- II: Obsessive compulsive disorder (OCD) · Axis- III: Bipolar mood disorder · Axis- IV: Occupational disorder · Axis- VI: Truancy b) Common Axis: · Common Axis-I: Anxiety · Common Axis-II: Personality disorder · Common Axis-III: Conflict	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2020-2021
EDU-G-DSE-T-3/4(B): Comparative Education

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	<p>Unit-I: Meaning, Nature, Scope, and Methods of Comparative Education</p> <p>a) Meaning, nature, scope and importance of Comparative Education.</p> <p>b) Methods of Comparative Education: i) Philosophical Method ii) Historical Method iii) Sociological Method iv) Psychological Method v) Scientific Method</p>	10
Md Abdul Latif Sk	<p>Unit-II: Factors of Comparative Education:</p> <p>a) Natural Factors: Historical, Racial, Linguistic and Social Factors.</p> <p>b) Spiritual Factors: Religious and Philosophical Factors.</p> <p>c) Secular Factors: Factor of Humanism, Socialism, Nationalism and Democracy.</p>	12
Md Abdul Latif Sk	<p>Unit-III: Universalization of Elementary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Elementary Education System.</p>	10
Pujasri Chakraborty	<p>Unit-IV: Universalization of Secondary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Secondary Education System</p>	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2020-2021
EDU-G-DSE-T-3/4 (C): Guidance and Counselling

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	<p>Unit-IV: Guidance and Counselling for Diverse Learners</p> <p>a) Identification of Gifted, Slow learners, Learner with learning disabilities.</p> <p>b) Need of Guidance for diverse learners</p> <p>c) Need of Counselling for diverse learner</p>	8
Md Abdul Latif Sk	<p>Unit-III: Tools and Techniques of Guidance and Counselling</p> <p>a) Basic data necessary for Educational Guidance- Pupils abilities, Aptitudes, Interests and Attitudes, Educational Attainments and Personality Traits.</p> <p>b) Difference between Guidance, Counselling and Teaching</p>	10
Pujasri Chakraborty	<p>Unit-II: Concept of Counselling</p> <p>a) Meaning, Nature, Scope, and Importance of Counselling</p> <p>b) Types of Counselling i) Directive: Meaning, Characteristics, Purpose & Functions. ii) Non-directive: Meaning, Characteristics, Purpose & Functions. iii) Eclectic: Meaning, Characteristics, Purpose & Functions.</p> <p>c) Steps of Counselling; Characteristics of good Counsellor.</p>	13

Md Abdul Latif Sk	Unit-I: Concept of Guidance a) Meaning, Nature, Scope, and Importance of Guidance. b) Different Types of Guidance i) Educational: Meaning, Characteristics, Purpose & Functions. ii) Vocational: Meaning, Characteristics, Purpose & Functions. iii) Personal: Meaning, Characteristics, Purpose & Functions.	12
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2020-2021
EDU-G-DSE-T-3/4(D): Great Educator

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	Unit – I: Indian Educators: Contribution of following great educators with special reference to Educational Philosophy, aims of education, Curriculum, Method of Teaching, Role of teacher & Relevance in Present day context. · Sarvapalli Radhakrishnan. · Shri Aurobinda.	10
Md Abdul Latif Sk	Unit - III: Modern Thinkers on Education in India a) AbulKalam Azad	09

	b) Annie Besant c) A.P.J. Abdul Kalam	
Md Abdul Latif Sk	Unit - II: Western Educators: Contribution of following great educators with special reference to Educational Philosophy, Aims of education, Curriculum, Method of Teaching Role of teacher & Relevance in Present day context. · Bertrand Russel · Madam Maria Montessori	10
Pujasri Chakraborty	Unit- IV: Some Experiments of Great Educators on Education: a) Viswa bharati and Rabindranath Tagore b) Basic education and Gandhiji c) Kindergarten and Froebel d) Laboratory school and John Dewey	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2021-2022
Course code & Title : EDU–H–CC–T–1;
Philosophical Foundation of Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK SOMNATH KUNDU	Unit – IV : Schools of Philosophy A) Indian school of philosophy <ul style="list-style-type: none"> • Meaning , nature and classifications in Indian schools of Philosophy • Atheistic schools of Indian Philosophy – Buddhism, Jainism and Charvaka in terms of knowledge, reality and value and educational implications 	12

	<p align="center">Unit – II : Factors of Education</p> <p>i) Child : Meaning, characteristics and importance of child centric education</p> <p>j) Teacher : Qualities and duties of a good teacher, teacher as a motivator, mentor, facilitator and problem solver.</p>	10
	<p align="center">Unit – III : Philosophical bases of Education</p> <p>e) Differences among Metaphysics, Epistemology and Axiology</p>	
PUJASRI CHAKRABORTY	<p>Unit – I : Education and Educational Philosophy</p> <p>e) Meaning, nature, scope and aims of education</p> <ul style="list-style-type: none"> • Education as process and product, as Science and Arts • Individualistic and socialistic aim (meaning, characteristics and difference) • Report of Delor’s Commission (UNESCO, 1996) 	7
	<p>Unit – II : Factors of Education</p> <p>c) Curriculum : Meaning, nature and importance</p> <p>d) Co-curricular activities : Meaning, nature and importance of co-curricular activity, Principles of organizing co-curricular activity</p> <p>e) School : Vision and functions</p>	10
	<p align="center">Unit – III : Philosophical bases of Education</p> <p>m) Role of Metaphysics, Epistemology and Axiology in Education.</p>	
BHASWATI SAHA	<p>Unit – I : Education and Educational Philosophy</p> <p>b) Educational Philosophy : Meaning, nature, scope and relation between education and philosophy</p>	7
		12

	<p align="center">Unit – IV : Schools of Philosophy</p> <p>b) Western schools of Philosophy</p> <ul style="list-style-type: none"> ● Meaning and Nature ● Idealism, Naturalism, Pragmatism (Aims, Curriculum, Methods, Teacher & Discipline) and educational implications. 	
	<p align="center">Unit – III : Philosophical bases of Education</p> <p>n) Philosophy: Concept and branches</p> <p>o) Concepts and nature of Metaphysics, Epistemology and Axiology</p>	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- I, Education (Honours) 2021-2022

Course code & Title :
EDU-H-CC-T-2; Sociological Foundation of Education
Core Course (Theoretical)

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p>Unit - I : Sociology and Educational Sociology</p> <p>a) Sociology : Meaning, emergence, nature and scope</p> <p>b) Educational sociology : Meaning, nature, scope and importance</p> <p>c) Relation between Education and Sociology</p> <p>d) Concept of Educational Sociology and Sociology of Education</p>	14
BHASWATI SAHA	<p>Unit - II : Social Factors, Issues and Education</p> <p>a) Culture :</p> <ul style="list-style-type: none"> ● Concept, nature and elements ● Relation between individual and culture ● Relation between culture and society ● Role of education in culture <p>b) Cultural lag : Concept, characteristics, causes, education and cultural lag</p> <p>Unit - IV: Social Change and Education</p> <p>b) Social change in India :</p> <ul style="list-style-type: none"> · Privatization : Concept and relationship with education · Liberalization : Concept and relationship with education · Globalization : Concept and relationship with education 	10

PUJASRI CHAKRABORTY	<p>Unit - II : Social Factors, Issues and Education</p> <p>c) Values : Concept, nature, types and role of education</p> <p>d) Social issues:</p> <ul style="list-style-type: none"> ● Unemployment : Concept, types, causes, role of education in eradication of unemployment ● Poverty : Concept, causes and role of education in eradication of poverty ● Inequality : Concept, causes and role of education in eradication of inequality 	10
	<p>Unit - III : Social Groups and Education</p> <p>a) Social groups :</p> <ul style="list-style-type: none"> · Meaning, nature · Types: <ul style="list-style-type: none"> q) Primary Group : Meaning, characteristics and role r) Secondary Group : Meaning, characteristics and role s) Tertiary Group : Meaning, characteristics and role t) Comparison between primary group, secondary group and tertiary group <p>Unit - IV: Social Change and Education</p> <p>c) Social Stratification : Definition, characteristics, causes; education and social stratification</p>	12
SOMNATH KUNDU	<p>Unit - III : Social Groups and Education</p> <p>b) Socialization :</p> <ul style="list-style-type: none"> ● Meaning and characteristics ● Significance of Socialization ● Factors of socialization ● Role of the family and school <p>c) Social Institutions and Agencies of Education: (i) Family, (ii) School, (iii) State, (iv) Mass media and (v) Religion</p>	12
	<p>Unit - IV: Social Change and Education</p> <p>e) Social change : Definition, characteristics, factors, constraints and education as an instrument of social change</p> <p>d) Social Mobility : Definition, characteristics, causes; education and social mobility</p>	5

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GE) SEM -1 2021-2022

EDU-H-GE-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <ul style="list-style-type: none"> ● Meaning, Nature and Scope of Education. ● Individualistic and socialistic aim. <p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy.</p> <p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p>	10
Pujasri Chakraborty	<p>Unit-IV: Great Educators and their educational philosophy</p> <p>e) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey.</p>	12

	<p>Unit-II: Factors of Education:</p> <p>b) Teacher: Qualities and duties of a good teacher.</p>	
SOMNATH KUNDU	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p>	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 1 2021-2022
EDU-G-CC-T-1: Educational Philosophy

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	<p>Unit-I: Concept, Scope and Aim of Education</p> <p>a) Meaning, Nature and Scope of Education.</p> <p>b) Individualistic and socialistic aim.</p> <p>c) Meaning and scope of educational Philosophy; Relation between education and philosophy</p>	10
Pujasri Chakraborty	<p>Unit-III: Schools of Philosophy and National Values</p> <p>a) Indian schools of Philosophy: Sankhya, Yoga, Buddhism; in terms of knowledge, reality and value.</p> <p>b) Western School of Philosophy: Idealism, Naturalism, Pragmatism: special reference to principles, aims of education, curriculum, teaching method, teacher, discipline.</p>	20

	Unit-IV: Great Educators and their educational philosophy a) Swami Vivekananda, Rabindranath Tagore, Rousseau, Dewey	
BHASWATI SAHA	Unit-II: Factors of Education: a) Child: Meaning and characteristics of child centric education system. b) Teacher: Qualities and duties of a good teacher. c) Curriculum: Meaning and Types. Co-curricular activities.	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-III 2021-2022
EDU-H-CC-T-5: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-II: Educational Statistics a) Concept, Scope and Need of Educational Statistics b) Concept of raw data, score, frequency distribution, range, variable. c) Organization and Tabulation of Data-Frequency distribution table	10
BHASWATI SAHA	Unit-III: Tools and Techniques of Evaluation a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test b) Techniques:	

SOMNATH KUNDU	<p>Observation, CRC, Interview, Questionnaire and Inquiry.</p> <p>c) Characteristics of a good test: Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination. Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses.</p>	14
	<p>Unit-I: Measurement and Evaluation in Education</p> <p>a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.</p>	8
	<p>Unit-IV: Evaluation Process</p> <p>a) Evaluation Process: Concept, Types (Formative and Summative) b) Concept of Norm-Referenced Test and Criterion Referenced Test. c) Concept of Gradation and Credit system.</p>	

NABADWIP VIDYASAGAR COLLEGE

Syllabus Modularization of Education Department

EDUCATION HONOURS SEMESTER-III 2021-2022

EDU-H-CC-T-6: Philosophical Foundation of Education-II Core Course.

Name of the Teacher	Topic	No of Classes
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MD ABDUL LATIF SK (LS)	Unit-1: Philosophical bases of Education a) Philosophical bases of Education b) Concepts and nature of Western Philosophy c) Concepts and nature of Metaphysics, Epistemology and Axiology d) Role of Metaphysics, Epistemology and Axiology in Education	10
PUJASRI CHAKRABORTY (PC)	Unit-2: Idealism and Education · Idealism: principle of Idealism, influence of idealism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8
SOMNATH KUNDU	Unit-3: Naturalism and Education · Naturalism: principle of Naturalism, influence of Naturalism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8
BHASWATI SAHA	Unit-4: Pragmatism and Education · Pragmatism: principle of Pragmatism, influence of Pragmatism on different aspects of Education (Aims, Curriculum, Methods, Teacher & Discipline)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION HONOURS Semester- III 2021-2022
EDU-H-CC-T-7: Inclusive Education

Name of the Teacher	Topic	No of Classes
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<p>MD ABDUL LATIF SK (LS)</p>	<p>Unit -IV: Inclusive School a) Infrastructural facilities for an ideal Inclusive School. b) Teachers Role in Inclusive Classroom</p>	<p>8</p>
<p>PUJASRI CHAKRABORTY (PC)</p>	<p>.Unit I: Inclusive Education concept and Nature a) Concept and principles of Inclusion. b) Need of Inclusive education. c) PWD Act (1994)</p>	<p>8</p>
<p>BHASWATI SAHA \\</p>	<p>Unit III: Inclusive Education and its Practices. a) Differentiating Instruction. •Peer Tutoring •Co-operative learning •Inclusive lesson planning. b) Inclusive Instructional Strategies at school level. •Remedial Help. •Team Teaching. •Circles of Friends</p>	<p>12</p>
<p>SOMNATH KUNDU</p>	<p>Unit II: Competencies development for Inclusive Education. a) Theories of Inclusive Education b) Development of Attitude, Positive Behaviour & social skill for Inclusion</p>	<p>10</p>

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (HONOURS) SEMESTER-III 2021-2022
EDU-H-SEC-T-1(A): Statistical Analysis
Skill Enhancement Course.

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application. b) Measure of Variability- Range, AD, SD and QD- their Properties, Calculation and Application)	12
PUJASRI CHAKRABORTY (PC)	Unit-I: Descriptive Statistics c) Percentile and Percentile Rank- Definition, Calculation, Application, Graphical Determination.	10
SOMNATH KUNDU	Unit-II: Relationship and Inferential Statistics a) Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10
BHASWATI SAHA	b) Parametric and Non-Parametric Test- (only Concept and Uses). Practical: Calculate – Mean, Median and Mode; Range, AD, SD & QD; PP, PR; Co-relation; Standard score & Z score from different frequency distribution	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
EDUCATION (HONOURS) SEMESTER-III 2021-2022
EDU-H-SEC-T-1(B): Achievement Test

Skill Enhancement Course

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-I: Concept of Achievement test a) Meaning & definition of Achievement test	8
PUJASRI CHAKRABORTY (PC)	Unit-I: Concept of Achievement test b) Characteristics of Achievement Test c) Objectives of Achievement Test	10
SOMNATH KUNDU (SK)	Unit-II: Different aspects of Achievement Test a) Principles of Achievement test construction	8
BHASWATI SAHA (BS)	Unit-II: Different aspects of Achievement Test b) Steps involved in the construction of Achievement Test Practical: Construct of an Achievement Test	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEM III 2021-2022
EDU-H-GE-T-3: Educational Sociology

Name of the Teacher	Topic	No of Classes
MD ABDL LATIF SK	<p>Unit-I: Educational Sociology</p> <p>a) Meaning, nature and scope of Educational sociology.</p> <p>b) Relation between education and sociology.</p> <p>c) Concept of Educational sociology and sociology of education.</p>	8
PUJASRI CHAKRABORTY	<p>Unit-II: Social factors, issues and Education</p> <p>a) Culture: Concept, role of education in culture, cultural lag.</p> <p>b) Social issues: unemployment, poverty, disadvantage section of Indian society (SC, ST and OBC).</p>	8
SOMNATH KUNDU (SK)	<p>Unit-IV: Social change and Education</p> <p>a) Social change: definition, characteristics, factors, constraints</p> <p>b) Education and social stratification: Definition and characteristics</p> <p>c) Education and Social Mobility</p>	10
BHASWATI SAHA (BS)	<p>Unit-II: Factors of Education:</p> <p>a) Child: Meaning and characteristics of child centric education system.</p> <p>b) Teacher: Qualities and duties of a good teacher.</p> <p>c) Curriculum: Meaning and Types. Co-curricular activities.</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2021-2022
EDU-G-CC-T-3: Educational Sociology

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Educational Sociology a) Meaning, nature and scope of Educational sociology. b) Relation between education and sociology. c) Concept of Educational sociology and sociology of education	8
MD ABDUL LATIF SK	Unit-II: Social factors, issues and Education a) Culture: Concept, role of education in culture, cultural lag. b) Social issues: unemployment, poverty, disadvantage section of Indian society (SC, ST and OBC).	8
BHASWATI SAHA (BS)	Unit-III: Social groups and Education a) Social groups- meaning and types (Primary, Secondary and Tertiary) b) Socialization: Meaning, process and factors of socialization, role of the family and school. c) Social Institutions and Agencies of Education: (i) Family, (ii) School.	8

SOMNATH KUNDU (SK)	Unit-IV: Social change and Education 1. Social change: definition, characteristics, factors, constraints. 2. Education and social stratification: Definition and characteristics. 3. Education and Social Mobility.	8
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2021-2022
EDU-G-SEC-T-1(A): Statistical Analysis

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application.	8
MD ABDUL LATIF SK	Practical: Calculate - Mean, Median and Mode; Range, SD ; Co-relation from different frequency distribution	8
SOMNATH KUNDU (SK)	Unit-I: Descriptive Statistics b) Measure of Variability- Range, SD and - their Properties, Calculation and Application	8
BHASWATI SAHA (BS)	Unit-II: Coefficient of correlation Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10

**Syllabus Modularization of Education Department
Education (GENERAL) SEM III 2021-2022
EDU-G-SEC-T-1(A): Statistical Analysis**

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Descriptive Statistics a) Meaning of Central Tendency- Mean, Median and Mode-their Properties, Calculation and Application.	8
MD ABDUL LATIF SK	Practical: Calculate - Mean, Median and Mode; Range, SD ; Co-relation from different frequency distribution	8
BHASWATI SAHA (BS)	Unit-I: Descriptive Statistics b) Measure of Variability- Range, SD and - their Properties, Calculation and Application	8
SOMNATH KUNDU (SK)	Unit-II: Coefficient of correlation Concept of Correlation – Computation of Co-efficient of Correlation by Rank difference method and Product moment method, Interpretation of Co-efficient of Correlation,	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER V 2021-2022
EDU-H-CC-T-11: Educational Management

Name of the Teacher	Topic	No of Classes
<p style="text-align: center;">MD ABDUL LATIF SK (LS)</p>	<p>Unit-II: Educational Administration and Supervision a) Educational Administration: meaning and function. b) Supervision: meaning, purpose; difference between Supervision and Inspection. c) Factors affecting managerial behaviour of teachers: Personal, Social, Cultural, Political and Institutional.</p>	<p style="text-align: center;">12</p>
<p style="text-align: center;">PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-IV: Functions of Various Administrative Bodies a) UGC, b) NAAC, c) NCERT, d) NCTE.</p>	<p style="text-align: center;">10</p>
<p style="text-align: center;">SOMNATH KUNDU (SK)</p>	<p>Unit-I: Concept of Educational Management a) Educational Management: Meaning, Nature, Scope, Function and Needs. b) Types of Educational Management: Centralization, Decentralization, Autocratic, Democratic and Laissez-fair.</p>	<p style="text-align: center;">12</p>

BHASWATI SAHA (BS)	Unit-III: Educational Planning a) Educational Planning: Meaning, Needs and Significance. b) Types of Educational Planning; Strategies and Steps in Educational Planning. c) Brief outline of the last Five Year Plan in Primary and Secondary Education	12
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER V 2021-2022

EDU-H-CC-T-12: Educational Technology

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-IV: Phases, Levels, and Models of Teaching a) Phases of Teaching: Pre-active, Inter-active & Post-active. b) Levels of Teaching: Memory, Understanding, Reflective. c) Models of Teaching: Concept, Components, Families, Glaser's Basic Teaching Model, Bruner's Concept Attainment Model.	12
PUJASRI CHAKRABORTY (PC)	Unit-I: Educational Technology a) Meaning, Nature, Need and Scope of Educational Technology b) Technology in Education and Technology of Education c) Approaches of ET: Hardware, Software, and System	10
BHASWATI SAHA (BS)	Unit-III: Instructional Technology a) Mass Instructional Technology- Seminar, Discussion, Panel Discussion. Team teaching b) Personalized Instructional Techniques- Programmed Instruction- meaning, principles, types, merits and demerits c) Computers and its role in educational instruction	12

<p>SOMNATH KUNDU (SK)</p>	<p>Unit-II: Classroom Communication and Media used a) Meaning, Nature, Types, and Components of Communication b) Barriers of classroom communication and strategies of overcoming barriers in communication c) Media used in education: Audio (Radio), Visual (Projector), Audio-visual (TV)- merits and demerits</p>	<p>10</p>
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2021-2022
EDU-H-DSE-T-1/2(A): Value Education

<p>Name of the Teacher</p>	<p>Topic</p>	<p>No of Classes</p>
<p>MD ABDUL LATIF SK</p>	<p>UNIT-I: Meaning and nature of Value a) Value: Meaning and Nature b) Values enshrined in Indian constitution. c) Classification of values proposed by NCERT</p>	<p>09</p>
<p>PUJASRI CHAKRABORTY</p>	<p>UNIT-II: Value Education a) Value Education: concept and objective. b) Need for value education in India</p>	<p>08</p>

SOMNATH KUNDU (SK)	UNIT-III: Value Education in School a) Value Education through Curriculum. b) Value Education through Co-Curricular Activities. c) Role of teachers to facilitate development of values among the learners.	15
BHASWATI SAHA (BS)	UNIT-IV: Strategies of value education a) Storytelling. b) Play-way Method. c) Role plays.	09

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2021-2022
EDU-H-DSE-T-1/2(B): Population Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-1: Meaning and Concept of Population Education a) Meaning & Concept of Population Education b) Scope & objectives of Population Education.	10

PUJASRI CHAKRABORTY	<p>Unit-IV: Population Education Curriculum and Policy</p> <p>a) Curriculum of Population education at different stages. b) Role of population policy in India. c) Role of Teacher in making awareness of population explosion. d) Community sensitisation programme of early marriage and child labour etc.</p>	12
<p>BHASWATI SAHA (BS)</p>	<p>Unit-II: Historical Development of Population Education</p> <p>a) Historical development of Population Education and education programme in India. b) Some major thrust areas of population education-- Family planning · Adolescent education</p>	09
<p>SOMNATH KUNDU (SK)</p>	<p>Unit-III: Population Growth and Problems in India</p> <p>a) Definition of population growth. b) Factors influencing population growth- fertility, mortality, and migration. c) Causes of rapid population growth d) Preventive measures for rapid population growth.</p>	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2021-2022

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	UNIT-1: Concept of Peace Education a) Peace Education : Meaning, nature, aims, objectives & scope b) Need of Peace Education. c) Factors of peace education: unemployment, terrorism, religion.	10
PUJASRI CHAKRABORTY	UNIT-2: Key Thinkers of Peace Education a) Indian Context: · Rabindranath Tagore, · Sri Aurobinda b) Global context: · Montessori · John Dewe	12
SOMNATH KUNDU (SK)	UNIT-4: Approaches of Peace Education a) Participatory Education b) Co-operative Learning	09
BHASWATI SAHA (BS)	UNIT-3: Peace Education Programme a) Principles of peace education b) Curriculum and Peace Education. c) Quality of a teacher as a peace educator	08

EDU-H-DSE-T-1/2(C): Peace Education

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-V 2021-2022
EDU-H-DSE-T-1/2(D): Distance Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit I: Concept of Distance & Open Education a) Meaning and definition of Distance Education. b) Characteristics and objectives of Distance Education. c) Merits and limitations of Distance Education.	12
PUJASRI CHAKRABORTY	Unit II: Strategies of distance education a) Mode and strategies of Distance Education. b) Relationship among Non-formal, Correspondence, Distance and Open Education.	10
BHASWATI SAHA (BS)	Unit III: Status of open and distance education in India a) Present state of Distance and Open Education in India. b) Role of multi-media in Distance and Open Education.	08
SOMNATH KUNDU (SK)	Unit IV: Problems and remedies of distance and open education in India a) Salient features of the Indira Gandhi National Open University (IGNOU) and National Open School. b) Problems of Distance and Open Education in India.	10

	c) Measures for strengthening Distance and Open Education in India.	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2021-2022
EDU-G-GE-T-1: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>Unit-I: Measurement and Evaluation in Education</p> <p>a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement.</p> <p>b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.</p>	10
MD ABDUL LATIF SK	<p>Unit-II: Educational Statistics</p> <p>a) Concept, Scope and Need of Educational Statistics</p> <p>b) Concept of raw data, score, frequency distribution, range, variable.</p> <p>c) Organization and Tabulation of Data- Frequency distribution table</p>	10
SOMNATH KUNDU (SK)	<p>Unit-IV: Evaluation Process a) Evaluation Process: Concept, Types (Formative and Summative)</p> <p>b) Concept of Norm-Referenced Test and Criterion Referenced Test</p> <p>c) Concept of Gradation and Credit system</p>	10

<p>BHASWATI SAHA (BS)</p>	<p>Unit-III: Tools and Techniques of Evaluation</p> <p>a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test</p> <p>b) Techniques: Observation, CRC, Interview, Questionnaire and Inquiry. c) Characteristics of a good test: o Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination. Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses</p>	<p>14</p>
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Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Guidance services: Meaning, nature, and importance of the following guidance services: Individual Inventory Services, Testing services, Counselling services.	8
MD ABDUL LATIF SK	Unit-II: Organizing guidance services at educational institution: a) Pre-requisites for organizing guidance services b) Organizing guidance services at school and college level .	7
BHASWATI SAHA (BS)	Unit-I: Guidance services: Information service, Placement service, Follow up service.	8
SOMNATH KUNDU (SK)	Unit-II: Organizing guidance services at educational institution: c) Role of teachers in organizing guidance services.	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2021-2022
EDU-G-SEC-T-3(B): Life skill Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit I: Introduction to life skill education a) Life Skills: Concept, core life skills and their applications.	8
MD ABDUL LATIF SK	Unit II: Strategies for life skill Education a) Coping with Emotions: Definition, Characteristics, Types, Coping Strategies	7
SOMNATH KUNDU (SK)	Unit II: Strategies for life skill Education b) Coping with Stress: Definition, Stressors, Sources of Stress, Coping Strategies.	4
BHASWATI SAHA (BS)	Unit I: Introduction to life skill education b) Life Skill education: concept, nature and scope, Distinction between life skill education and sex education. c) Social skill, Negotiation skill, Thinking skill and Problem solving skill	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2021-2022
EDU-G-DSE-T-1/2(A): Value Education

Name of the Teacher	Topic	No of Classes
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PUJASRI CHAKRABORTY	UNIT-I: Meaning and nature of Value a) Value: Meaning and Nature b) Values enshrined in Indian constitution. c) Classification of values proposed by NCERT	
MD ABDUL LATIF SK	UNIT-III: Value Education in School a) Value Education through Curriculum. b) Value Education through Co-Curricular Activities. c) Role of teachers to facilitate development of values among the learners	
BHASWATI SAHA (BS)	UNIT-II: Value Education a) Value Education: concept and objective. b) Need for value education in India	
SOMNATH KUNDU (SK)	UNIT-IV: Strategies of value education a) Storytelling. b) Play-way Method. c) Role plays	

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2021-2022
EDU-G-DSE-T-1/2(B): Population Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	<p>Unit-1: Meaning and Concept of Population Education</p> <p>a) Meaning & Concept of Population Education</p> <p>b) Scope & objectives of Population Education</p>	8
MD ABDUL LATIF SK	<p>Unit-II: Historical Development of Population Education</p> <p>e) Historical development of Population Education and education programme in India.</p> <p>f) b) Some major thrust areas of population education-</p> <p>· Family planning · Adolescent education</p>	7
SOMNATH KUNDU (SK)	<p>Unit-IV: Population Education Curriculum and Policy</p> <p>a) Curriculum of Population education at different stages.</p> <p>b) Role of population policy in India.</p> <p>c) Role of Teacher in making awareness of population explosion.</p> <p>d) Community sensitisation programme of early marriage and child labour etc.</p>	8
BHASWATI SAHA (BS)	<p>Unit-III: Population Growth and Problems in India</p> <p>a) Definition of population growth.</p> <p>b) Factors influencing population growth- fertility, mortality, and migration.</p> <p>c) Causes of rapid population growth</p> <p>d) Preventive measures for rapid population growth.</p>	7

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2021-2022
EDU-G-DSE-T-1/2(C): Peace Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	UNIT-II: Key Thinkers of Peace Education Indian Context: <ul style="list-style-type: none"> · Rabindranath Tagore, · Sri Aurobindo Global context: · Montessori · John Dewey 	8
PUJASRI CHAKRABORTY	UNIT-I: Concept of Peace Education <ul style="list-style-type: none"> · Peace Education: Meaning, nature, aims, objectives & scope · Need of Peace Education. · Factors of peace education: unemployment, terrorism, religion. 	7
BHASWATI SAHA (BS)	UNIT-III: Peace Education Programme in School <ul style="list-style-type: none"> · Principles of peace education · Curriculum and Peace Education. · Quality of a teacher as a peace educator 	8
SOMNATH KUNDU (SK)	UNIT-IV: Approaches of Peace Education <ul style="list-style-type: none"> · Participatory Education · Co-operative Learning 	7

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2021-2022
EDU-G-DSE-T-1/2(D): Distance Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit IV: Problems and remedies of distance and open education in India a) Salient features of the Indira Gandhi National Open University (IGNOU) and National Open School. b) Problems of Distance and Open Education in India. c) Measures for strengthening Distance and Open Education in India	8
MD ABDUL LATIF SK	Unit I: Concept of Distance & Open Education a) Meaning and definition of Distance Education. b) Characteristics and objectives of Distance Education. c) Merits and limitations of Distance Education.	7
SOMNATH KUNDU (SK)	Unit II: Strategies of distance education a) Mode and strategies of Distance Education. b) Relationship among Non-formal, Correspondence, Distance and Open Education.	8
BHASWATI SAHA (BS)	Unit III: Status of open and distance education in India a) Present state of Distance and Open Education in India.	7

	b) Role of multi-media in Distance and Open Education.	
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**Syllabus Modularization of Education Department
Education (Honours) SEMESTER-II 2021-2022
EDU-H-CC-T-3: Psychological Foundation of Education**

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p>Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive and Language development of Infancy, Childhood and Adolescence period and respective educational programmes. c) Piaget's theory of Cognitive Development</p>	12
	<p>Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Measurement of Personality- projective test d) Individual differences –meaning and implications.</p>	
PUJASRI CHAKRABORTY	<p>Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Trial and Error, Insightful Learning c) Transfer of Learning: Concept & Types. d) Motivation: Types, factors and Role of Motivation in learning e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes</p>	10
	<p>Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications- Spearman, Thurston, Guilford and Gardner; Measurement of Intelligence- verbal and non-verbal b) Creativity: meaning, nature, factors, and nurturing.</p>	

Education (Honours) SEMESTER-II 2021-2022
EDU-H-CC-T-4: History of Education in Colonial India

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	<p>Unit: I: Education in 19th Century in India</p> <p>a) Charter Act of 1813 b) Oriental –Occidental Controversy c) Macaulay’s Minute d) Bentinck’s Declaration e) Wood’s Despatch: Context, Recommendations, Criticism and Educational Significance f) Indian Education Commission: Background, Composition of the Commission, Criticism and Educational Significance</p>	10
PUJASRI CHAKRABORTY	<p>Unit: II: Bengal Renaissance and Its Influence on Education</p> <p>a) Concept Bengal Renaissance b) Causes of Bengal Renaissance c) Characteristics of Bengal Renaissance d) Contribution of Raja Rammohan Roy, Derozio and Vidyasagar in Education. e) Impact of Bengal Renaissance on Education,</p>	12
BHASWATI SAHA (BS)	<p>Unit: III: Educational policy of Lord Curzon and National Education Movement</p> <p>a) Simla Conference 1901 b) The Indian Universities Commission 1902 c) The Indian Universities Act 1904 d) Govt. of India’s Resolution on Indian Educational Policy 1904 e) Curzon contribution in Indian Education</p> <p>National Education Movement</p> <p>a) Characteristics, of National Education Movement, b) Causes of National Education Movement c) Objective of National Education Movement d) Different Phases of National Education Movement e) Causes of Failure of the Movement f) Influence of the National Education Movement on Future Development of Indian Education</p>	12
SOMNATH KUNDU (SK)	<p>Unit: IV: Commission in between 1st and 2nd world war</p> <p>The Calcutta University Commission (Sadler Commission) 1917-1919</p> <p>a) Context b) Recommendation c) Criticism</p>	12

	d) Results Basic Education: a) Concepts b) Characteristics Merits & Demerits The post –war plan of educational development (Sargent Plan) 1944 a) Context b) Objective c) Recommendations d) Criticise e) Results	
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GE) SEM 2 2021-2022
EDU-H-GE-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
Md Abdul Latif Sk	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget’s view) of Infancy, Childhood and Adolescence period and respective educational programmes.	15
Pujasri Chakraborty	Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning c) Transfer of Learning: Concept & Types (Positive, Negative & Zero) d) Motivation: Types, factors and Role of Motivation in learning	12

	e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes.	
SOMNATH KUNDU (SK)	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston. b) Creativity: meaning, factors, and nurturing.	10
BHASWATI SAHA (BS)	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL/PCC) SEM- 2 2021-2022
EDU-G-CC-T-2: Educational Psychology

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-II: Learning a) Definition and characteristics of Learning; Factors influencing learning b) Theories of learning and their implications: Classical and Operant conditioning, Insightful Learning c) Transfer of Learning: Concept & Types (Positive, Negative & Zero) d) Motivation: Types, factors and Role of Motivation in learning e) Memorization: Definition, factors, LTM, STM. Forgetting- meaning and causes	15

MD ABDUL LATIF SK	Unit-III: Intelligence & Creativity a) Intelligence: Definition; Theories of Intelligence and their implications Spearman, Thurston. b) Creativity: meaning, factors, and nurturing.	12
BHASWATI SAHA (BS)	Unit-I: Educational Psychology and Development a) Concept, Nature and Scope; Distinction between Psychology and Educational Psychology. b) Growth and Development: Stages and aspects of development in human life; Physical, Social, Emotional, Cognitive (Piaget's view) of Infancy, Childhood and Adolescence period and respective educational programmes.	15
SOMNATH KUNDU (SK)	Unit-IV: Personality a) Definition; Heredity & Environment as determinants of Personality. b) Type and Trait theory, Psychoanalytical theory c) Individual differences –meaning and implications.	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2021-2022

SEMESTER-IV EDU-H-CC-T-8: History of Education in Post-Independence India

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-IV: National Policies on Education a) National Policy on Education (1968) b) National Policy on Education (1986) c) Programme of Action (POA)- 1992 i) Ramamurti Committee (1990-91)	12

	ii) Janardhan Reddy Committee (1992)	
MD ABDUL LATIF SK	Unit-I: Education and Constitution a) Preamble and various Articles on Education in Indian Constitution b) RTE Act-2009 c) Development of Education under Plan (Last two plans)	10
SOMNATH KUNDU (SK)	Unit-II: Education Commission in post Independent India a) University Education Commission (1948-49) b) Secondary Education Commission (1952-53) c) Indian Education Commission (1964-66)	8
BHASWATI SAHA (BS)	Unit-III: Some Educational Bodies in West Bengal (Function only) A) SCERT, b) DIET. Unit-II: Education Commission in post Independent India d) Ashoke Mitra Commission (1991-92)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2021-2022
EDU-H-CC-T-9: Psychology of Instruction

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Teaching a) Science of Teaching- Relation between teaching and learning; b) Factors affecting teaching process, Input and Output variables; c) Maxims of teaching; Fundamentals of teaching.	10
MD ABDUL LATIF SK	Unit-IV: Teaching Methods a) Meaning, nature, merits and demerits- Lecture, Demonstration, Project, Problem Solving, and, Story-telling.	8

BHASWATI SAHA (BS)	Unit-III: Teacher and Classroom Teaching a) Nature of classroom teaching. b) Difference between traditional and constructivist teaching; c) Micro-teaching- meaning , nature, merits and demerits	8
SOMNATH KUNDU (SK)	Unit-II: Teacher Behaviour a) Observation of classroom behaviour: Flander's Interaction analysis. b) Characteristics of a good teacher.	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2021-2022
EDU-H-CC-T-10: Contemporary issues in Education

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK (LS)	Unit-III: Higher Education and RUSA a) Role of Higher Education b) Knowledge Commission & Higher Education c) Higher Education and RUSA d) Problems of Higher Education in India	8
PUJASRI CHAKRABORTY (PC)	Unit-IV: Issues in Education a) Peace Education: Meaning, aims & objectives, need. b) Education for Sustainable Development: Meaning, aims & objectives, Role of education in Sustainable Development. c) Inclusive Education: Meaning, Need & Govt, programme. d) Open & Distance Learning System: Meaning, Characteristics and need.	10

<p>SOMNATH KUNDU (SK)</p>	<p>Unit-II: Universalization of Secondary Education Meaning, aims & objectives, significance; Role of RMSA, Problems.</p> <p>Unit-IV: Issues in Education e) Equality and Equity in Education: Meaning, importance, causes of inequality, Role of education to remove inequality in education. f) Women Education: Importance, problems</p>	<p>10</p>
<p>BHASWATI SAHA (BS)</p>	<p>Unit-I: Universalization of Elementary Education Universalization of Elementary Education- Meaning, Constitutional Provision with special reference to RTE Act; Aims and Objectives, Importance, Role of DPEP; SSA-SSM, Problems.</p>	<p>10</p>

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER IV 2021-2022
EDU-H-SEC-T-2(A): Lesson Planning

<p>Name of the Teacher</p>	<p>Topic</p>	<p>No of Classes</p>
<p>MD ABDUL LATIF SK (LS)</p>	<p>Unit-I: Concept of Lesson Planning a) Definition & Meaning of Lesson Plan b) Characteristics of Lesson Plan c) Advantages of Lesson Plan</p>	<p>10</p>
<p>PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-I: Concept of Lesson Planning c) Advantages of Lesson Plan</p>	<p>05</p>

BHASWATI SAHA (BS)	Unit-II: Different aspects of Lesson Plan a) Types of Lesson Plan b) Steps involved in Lesson Planning c) Principles of development of Lesson Plan	09
SOMNATH KUNDU (SK)	Unit-II: Different aspects of Lesson Plan c) Principles of development of Lesson Plan	05

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2021-2022
EDU-G-CC-T-4: History of Education

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	.Unit-I: Education in 19th Century in India a) Charter Act of 1813 and its educational significance b) Macaulay Minuets- (1835)- its educational significance c) Bengal Renaissance- Contribution of Raja Ram Mohan Roy & Derozio. d) Wood's Despatch (1854) and its impact on education. e) Indian Education Commission (1882-83) and its impact of education.	10
MD ABDUL LATIF SK	Unit-II: Education in 20th Century in India (1901-1944) a) Educational reformer Lord Curzon b) National education movement- Causes, Phases and Importance in Education. c) Basic Education- Concept, characteristics, merits and demerits.	10

	d) Sargent Plan Report (1944)- Pre-primary education, Primary education, Secondary education, Vocational & Technical education.	
SOMNATH KUNDU (SK)	<p>Unit-III: Education in Post-Independence India</p> <p>a) University Education Commission (1948-49) -Aims and Objective, Rural University Examination System, Teacher and Teaching Education, Vocational Education, Women Education.</p> <p>b) Secondary Education Commission (1952-53) -Structure of Education system, Aims and Objective, Curriculum and Evaluation system and Language Policy</p> <p>c) Indian Education Commission (1964-66) - Structure of Education system, Aims and Objective, Curriculum, Language Policy, Exam System and Teacher Education, Equality in Educational Opportunity.</p>	10
BHASWATI SAHA (BS)	<p>Unit-IV: National Policy on Education</p> <p>a) National Policy on Education (1986) -National System of Education, Equality in Education, ECCE, Operation Black Board, NavadayVidyalaya.</p> <p>b) Revised National Policy on Education-1992</p>	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2021-2022
EDU-G-SEC-T-2(A): Lesson Planning

Name of the Teacher	Topic	No of Classes
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PUJASRI CHAKRABORTY	Unit-I: Concept of Lesson Planning a) Definition & Meaning of Lesson Plan b) Characteristics of Lesson Plan	8
MD ABDUL LATIF SK	Unit-II: Different aspects of Lesson Plan a) Types of Lesson Plan b) Steps involved in Lesson Planning c) Principles of development of Lesson Plan	8
BHASWATI SAHA (BS)	Practical: Development of Lesson Plan (At least 20).	10
SOMNATH KUNDU (SK)	Unit-I: Concept of Lesson Planning c) Advantages of Lesson Plan	7

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM IV 2021-2022
EDU-G-SEC-T-2(B): Use of Teaching aids

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Concept of Teaching Aids a) Definition & Meaning of Teaching Aids b) Characteristics of Teaching Aids c) Utility of Teaching Aids	8
MD ABDUL LATIF SK	Unit-II: Different Types of Teaching Aids a) Classification of Teaching Aids (Concept only) b) Projected Teaching Aids- OHP, Slide Projection, Film Strip (Concept, principles of construction, uses)	10

SOMNATH KUNDU (SK)	Unit-I: Concept of Teaching Aids d) Limitations of Teaching Aids Unit-II: Different Types of Teaching Aids c) Non-Projected Teaching Aids- Model, Chart, Poster (Concept, principles of construction, uses)	10
BHASWATI SAHA (BS)	Practical: Development of Teaching Aids	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- VI, Education (Honours) 2021-2022
EDU-H-CC-T-13: Curriculum Studies

Name of the Teacher	Topic	No of Classes
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PUJASRI CHAKRABORTY (PC)	Unit-I: Introduction of Curriculum a) Meaning, Nature, Scope and functions of Curriculum b) Determinants of Curriculum c) Difference and Relation between Curriculum and Syllabus. d) Different Types of Curriculum .	10
BHASWATI SAHA (BS)	Unit-IV: Curriculum Theories a) Definition b) Types (only concept) c) Technical & Non-Technical Model (One theory from each category) Unit-I: Introduction of Curriculum e) Co-curricular Activities f) Bases of Curriculum: Philosophical, Sociological & Psychological.	12
SOMNATH KUNDU (SK)	Unit-III: Curriculum Evaluation a) Meaning & importance of curriculum evaluation b) Formative and summative evaluation of curriculum: concept & difference between them.	05
MD ABDUL LATIF SK (LS)	Unit-II: Concept of Curriculum Framework a) Curriculum Framework: Meaning b) NCF-2005 c) Principles of curriculum construction	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Semester- VI, Education (Honours) 2021-2022
EDU-H-CC-T-14: Educational Research

Name of the Teacher	Topic	No of Classes
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<p>MD ABDUL LATIF SK (LS)</p>	<p>. Unit-II: Educational Research- meaning, nature and types</p> <ul style="list-style-type: none"> ● Meaning, nature & scope of Educational Research ● Types of research: Basic, Applied & Action Research; Longitudinal and Cross Sectional ● Research. Historical, ● Descriptive and Experimental research (meaning only) ● c) Importance of Educational Research. 	<p>12</p>
<p>BHASWATI SAHA (BS)</p>	<p>Unit-IV: Research Data:</p> <ul style="list-style-type: none"> ● Qualitative and Quantitative data ● Tool of data collection- characteristics, merits and demerits of questionnaire and interview ● Descriptive and Inferential statistics (meaning only) ● d) Steps of testing hypotheses 	<p>12</p>
<p>SOMNATH KUNDU (SK)</p>	<p>. Unit-III: Basic Ideas of Research</p> <ul style="list-style-type: none"> ● Characteristics of a good research problem ● Review of related Literature – purpose ● Variable – dependent and independent ● Research Hypothesis – meaning, nature and types ● e) Population , Sample and sampling technique- meaning 	<p>15</p>
<p>PUJASRI CHAKRABORTY (PC)</p>	<p>Unit-I: Research-meaning and nature</p> <ul style="list-style-type: none"> ● Meaning and nature of research ● Sources of knowledge (Authority, Tradition, Personal Experience, Deduction, Induction.) ● c) Need of research in Education 	<p>10</p>

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-VI 2021-2022
EDU-H-DSE-T-3/4(A): Mental Hygiene Discipline Specific Elective Course

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit- I: Concept of Mental Hygiene a) Definition of Mental Hygiene b) Aims of Mental Hygiene c) Scope of Mental Hygiene	09
PUJASRI CHAKRABORTY	Unit-II: Concept of Mental Health a) Definition of mental health b) Symptoms of good mental health c) Causes of ill mental health	08
SOMNATH KUNDU	Unit-III: Classification of Mental disorder (Identification Characteristics, causes and treatment only) c) DSM-IV: · Axis- I: Depression · Axis- II: Obsessive compulsive disorder (OCD) · Axis- III: Bipolar mood disorder · Axis- IV: Occupational disorder · Axis- VI: Truancy b) Common Axis: · Common Axis-I: Anxiety · Common Axis-II: Personality disorder · Common Axis-III: Conflict	15
BHASWATI SAHA	Unit-IV: Prevention of Mental Hygiene a) Role of parents in preserving mental illness of children b) Role of Teachers in preserving mental illness of children in the Educational Institution c) Relation between Mental Hygiene and Adjustments	09

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-VI 2021-2022
EDU-H-DSE-T-3/4(A): Mental Hygiene Discipline Specific Elective Course

Name of the Teacher	Topic	No of Classes
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MD ABDUL LATIF SK	Unit-I: Meaning, Nature, Scope, and Methods of Comparative Education a) Meaning, nature, scope and importance of Comparative Education. b) Methods of Comparative Education: Philosophical Method ii) Historical Method iii) Sociological Method iv) Psychological Method v) Scientific Method	10
PUJASRI CHAKRABORTY	Unit-II: Factors of Comparative Education: a) Natural Factors: Historical, Racial, Linguistic and Social Factors. b) Spiritual Factors: Religious and Philosophical Factors. c) Secular Factors: Factor of Humanism, Socialism, Nationalism and Democracy	12
SOMNATH KUNDU	Unit-III: Universalization of Elementary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Elementary Education System.	09
BHASWATI SAHA	Unit-IV: Universalization of Secondary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Secondary Education System	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Concept of Guidance a) Meaning, Nature, Scope, and Importance of Guidance. b) Different Types of Guidance i) Educational: Meaning, Characteristics, Purpose & Functions. ii) Vocational: Meaning, Characteristics, Purpose & Functions. iii) Personal: Meaning, Characteristics, Purpose & Functions.	10
PUJASRI CHAKRABORTY	Unit-II: Concept of Counselling a) Meaning, Nature, Scope, and Importance of Counselling b) Types of Counselling i) Directive: Meaning, Characteristics, Purpose & Functions. ii) Non-directive: Meaning, Characteristics, Purpose & Functions. iii) Eclectic: Meaning, Characteristics, Purpose & Functions. c) Steps of Counselling; Characteristics of good Counsellor.	12
SOMNATH KUNDU	Unit-III: Tools and Techniques of Guidance and Counselling a) Basic data necessary for Educational Guidance- Pupils abilities, Aptitudes, Interests and Attitudes, Educational Attainments and Personality Traits. b) Difference between Guidance, Counselling and Teaching.	09

BHASWATI SAHA	Unit-IV: Guidance and Counselling for Diverse Learners a) Identification of Gifted, Slow learners, Learner with learning disabilities. b) Need of Guidance for diverse learners c) Need of Counselling for diverse learner	08
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Education (Honours) SEMESTER-VI 2021-2022

EDU-H-DSE-T-3/4 (C): Guidance & Counselling

Discipline Specific Elective Course.

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (Honours) SEMESTER-VI 2021-2022
EDU-H-DSE-T-3/4(D): Great Educators
Discipline Specific Elective Course.

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit – I: Indian Educators: Contribution of following great educators with special reference to Educational Philosophy, aims of education, Curriculum, Method of Teaching, Role of teacher & Relevance in Present day context. Swami Vivekananda Shri Aurobinda.	12
PUJASRI CHAKRABORTY	Unit - II: Western Educators: Contribution of following great educators with special reference to Educational Philosophy, Aims of education, Curriculum, Method of Teaching Role of teacher & Relevance in Present day context. Bertrand Russel Madam Maria Montessori	10
SOMNATH KUNDU	Unit - III: Modern Thinkers on Education in India a) S. Radhakrishnan b) Ashutosh Mukherjee c) AbulKalam Azad	08
BHASWATI SAHA	Unit- IV: Some Experiments of Great Educators on Education: a) Viswabharati and Rabindranath Tagore b) Basic education and Gandhiji c) Kindergarten and Froebel d) Laboratory school and John Dewey	10

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6) 2021-2022
EDU-G-SEC-T-4(A) : Pedagogical knowledge

Name of the Teacher	Topic	No of Classes
MD ABDUL LATIF SK	Unit-I: Meaning and Nature of Pedagogy a) Meaning, definition, characteristics & need of Pedagogy. b) Scope of Pedagogy.	8
BHAWASTI SAHA	Unit-II: Pedagogical Approaches a) Lecture Method b) Heuristic Method c) Project Method	7
SOMNATH KUNDU	Unit-I: Meaning and Nature of Pedagogy c) Difference between Pedagogy & Andragogy d) Aims and Objectives of following disciplines at secondary level: · Language · Social Science · Science · Mathematics	10
PUJASRI CHAKRABORTY	Unit-II: Pedagogical Approaches d) Demonstration Method e) Laboratory Method f) Collaborative Method	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6) 2021-2022
EDU-G-SEC-T-4(B) : Yoga Education

Name of the Teacher	Topic	No of Classes
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MD ABDUL LATIF SK	Unit-I: Concept of Yoga Education a) Meaning and definition, and nature of Yoga Education b) Types and aims of Yoga Education	8
BHASWATI SAHA	Unit-II: Yoga and Health a) Need of Yoga for good health b) Yogic concept of healthy life style	7
SOMNATH KUNDU	Practical: Practical Asanas and Pranayam	10
PUJASRI CHAKRABORTY	Unit-I: Concept of Yoga Education c) Role of teachers in implementing Yoga Education Unit-II: Yoga and Health c) Yoga for reduction of stress	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 5 2021-2022
EDU-G-GE-T-1: Educational Evaluation & Statistics

Name of the Teacher	Topic	No of Classes
PUJASRI CHAKRABORTY	Unit-I: Measurement and Evaluation in Education a) Concept, Scope and Need of Evaluation; Relation between Evaluation and Measurement. b) Scales of Measurement- Nominal, Ordinal, Interval and Ratio.	10

MD ABDUL LATIF SK	<p>Unit-II: Educational Statistics</p> <p>a) Concept, Scope and Need of Educational Statistics</p> <p>b) Concept of raw data, score, frequency distribution, range, variable.</p> <p>c) Organization and Tabulation of Data- Frequency distribution table</p>	10
SOMNATH KUNDU	<p>Unit-IV: Evaluation Process a) Evaluation Process: Concept, Types (Formative and Summative)</p> <p>b) Concept of Norm-Referenced Test and Criterion Referenced Test</p> <p>c) Concept of Gradation and Credit system</p>	10
BHAWASTI SAHA	<p>Unit-III: Tools and Techniques of Evaluation</p> <p>a) Tools: Tests- Essay type and Objective type; Short answer type and Oral type. Personality Test- Rorschach Ink Blot Test Interest Test- Kuder Richardson Test</p> <p>b) Techniques: Observation, CRC, Interview, Questionnaire and Inquiry. c) Characteristics of a good test: o Reliability- Concept, Characteristics, Causes of low Reliability, Determination of Reliability, Various types. Validity- Concept Causes of low Validity, Types, Determination. Objectivity- Concept, Characteristics, Types of Objective Test & Essay type test, advantages and disadvantages. Norms- Concept, Types and their uses</p>	14

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2021-2022
EDU-G-DSE-T-3/4(A): Mental Hygiene

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	Unit-II: Concept of Mental Health a) Definition of mental health b) Symptoms of good mental health c) Causes of ill mental health	8
Md Abdul Latif Sk	Unit- I: Concept of Mental Hygiene a) Definition of Mental Hygiene b) Aims of Mental Hygiene c) Scope of Mental Hygiene	7
Bhaswati Saha	Unit-IV: Prevention of Mental Hygiene a) Role of parents in preserving mental illness of children b) Role of Teachers in preserving mental illness of children in the Educational Institution c) Relation between Mental Hygiene and Adjustment	7
Somnath Kundu	Unit-III: Classification of Mental disorder (Identification Characteristics, causes and treatment only) a) DSM-IV: · Axis- I: Depression · Axis- II: Obsessive compulsive disorder (OCD) · Axis- III: Bipolar mood disorder · Axis- IV: Occupational disorder · Axis- VI: Truancy b) Common Axis: · Common Axis-I: Anxiety · Common Axis-II: Personality disorder · Common Axis-III: Conflict	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2021-2022
EDU-G-DSE-T-3/4(B): Comparative Education

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	<p>Unit-I: Meaning, Nature, Scope, and Methods of Comparative Education</p> <p>a) Meaning, nature, scope and importance of Comparative Education.</p> <p>b) Methods of Comparative Education: i) Philosophical Method ii) Historical Method iii) Sociological Method iv) Psychological Method v) Scientific Method</p>	10
Md Abdul Latif Sk	<p>Unit-II: Factors of Comparative Education:</p> <p>a) Natural Factors: Historical, Racial, Linguistic and Social Factors.</p> <p>b) Spiritual Factors: Religious and Philosophical Factors.</p> <p>c) Secular Factors: Factor of Humanism, Socialism, Nationalism and Democracy.</p>	12
Bhaswati Saha	<p>Unit-III: Universalization of Elementary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Elementary Education System.</p>	10
Somnath Kundu	<p>Unit-IV: Universalization of Secondary Education in UK & USA In relation to Structure, Aims and Objectives, Curriculum, Methodology, Evaluation system and Administration including finance and Comparison with Indian Secondary Education System</p>	12

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2021-2022
EDU-G-DSE-T-3/4 (C): Guidance and Counselling

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	<p>Unit-IV: Guidance and Counselling for Diverse Learners</p> <p>a) Identification of Gifted, Slow learners, Learner with learning disabilities.</p> <p>b) Need of Guidance for diverse learners</p> <p>c) Need of Counselling for diverse learner</p>	8
Md Abdul Latif Sk	<p>Unit-III: Tools and Techniques of Guidance and Counselling</p> <p>a) Basic data necessary for Educational Guidance- Pupils abilities, Aptitudes, Interests and Attitudes, Educational Attainments and Personality Traits.</p> <p>b) Difference between Guidance, Counselling and Teaching</p>	10
Bhaswati Saha	<p>Unit-II: Concept of Counselling</p> <p>a) Meaning, Nature, Scope, and Importance of Counselling</p> <p>b) Types of Counselling i) Directive: Meaning, Characteristics, Purpose & Functions. ii) Non-directive: Meaning, Characteristics, Purpose & Functions. iii) Eclectic: Meaning, Characteristics, Purpose & Functions.</p> <p>c) Steps of Counselling; Characteristics of good Counsellor.</p>	13

Somnath Kundu	Unit-I: Concept of Guidance a) Meaning, Nature, Scope, and Importance of Guidance. b) Different Types of Guidance i) Educational: Meaning, Characteristics, Purpose & Functions. ii) Vocational: Meaning, Characteristics, Purpose & Functions. iii) Personal: Meaning, Characteristics, Purpose & Functions.	12
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NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Education Department
Education (GENERAL) SEM 6 2021-2022
EDU-G-DSE-T-3/4(D): Great Educator

Name of the Teacher	Topic	No of Classes
Pujasri Chakraborty	Unit – I: Indian Educators: Contribution of following great educators with special reference to Educational Philosophy, aims of education, Curriculum, Method of Teaching, Role of teacher & Relevance in Present day context. · Sarvapalli Radhakrishnan. · Shri Aurobinda.	10
Md Abdul Latif Sk	Unit - III: Modern Thinkers on Education in India a) AbulKalam Azad	09

	b) Annie Besant c) A.P.J. Abdul Kalam	
Bhaswati Saha	Unit - II: Western Educators: Contribution of following great educators with special reference to Educational Philosophy, Aims of education, Curriculum, Method of Teaching Role of teacher & Relevance in Present day context. · Bertrand Russel · Madam Maria Montessori	10
Somnath Kundu	Unit- IV: Some Experiments of Great Educators on Education: a) Viswa bharati and Rabindranath Tagore b) Basic education and Gandhiji c) Kindergarten and Froebel d) Laboratory school and John Dewey	10

Session 2017-2018
B.Com. Part-I
Paper H.I. (Honours)
Financial Accounting
Full Marks 100
Module-1: (50 Marks)

1. Introduction to Accounting

(i) Meaning of Accounting (ii) Users of Accounting information (iii) Qualitative characteristics of Accounting information (iv) Generally Accepted Accounting Principles (GAAP) (v) Accounting Concepts and Conventions (vi) Concept of Accounting Standards and their mandatory application under Companies Act. **JD**

2. Basic Principles of preparing Final Accounts

(i) In the light of Accounting Standards - Valuation of Inventory, Accounting for Fixed Assets, Depreciation, and Intangible Assets (ii) Provisions and Reserves (iii) Capital and Revenue (Expenditure and Income) (iv) Rectification of Errors, Adjusting Entries and Closing Entries. **TKS**

3 (a) Final Accounts of Profit Seeking Organisations

Preparation of Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship and Partnership Business (Vertical and Horizontal Formats) **TKS**

(b) Preparation of Final Accounts of Not-for-Profit Organisations

Receipts and Payment Account, Income and Expenditure A/C and Balance Sheet. **TKS**

4. Accounting from Incomplete Records (including Conversion into Double Entry system) **TKS**

5. Partnership Accounts:

(a) Profit and Loss Appropriation accounts; Capital & Current A/C; Guarantee – by firm, by partner and both; Correction of appropriation items with retrospective effect. **PN**

(b) Changes in constitution of firm – Change in profit sharing ratio, Admission, Retirement, Retirement cum Admission—treatment of Goodwill, revaluation of assets and liabilities, treatment of reserves and adjustment relating to capital; treatment of Joint Life Policy, Death of a Partner. Dissolution of Firm – including piecemeal distribution. **PN**

Module 2 (50 Marks)

1. Accounting for special sales transactions

(a) **Consignment:** Recording in the books of Consignor – at cost & at invoice price, valuation of unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special commission, Del Credere Commission (with or without bad debt) Use of consignment debtors a/c. Recording in the books of Consignee. **SPC**

(b) **Joint Venture:** Separate set of books, and Same set of books methods. **SPC**

(c) **Accounting for sales on approval **TKS****

2. Insurance claim for Loss of Stock, and Loss of Profit (simple type) **SPC**

3. Self Balancing and Sectional Balancing System. **JD**

4. Branch Accounting:

JD

Synthetic Method – Preparation of Branch account, Branch Trading and P/L account (at cost & at Invoice Price)- normal and abnormal losses.

Analytical Method:- Preparation of Branch stock adjustment account (at cost & at IP)- normal and abnormal losses.

5. Hire purchase and installment payment system:- JD

Recording of Transactions in the books of buyer – allocation of interest – use of interest suspense a/c— partial and complete repossession.

Books of seller – Stock and Debtor a/c (with repossession)

Books of Seller – H.P Trading a/c (with repossession)

Concept of operating and financial lease – basic concepts only.

6. Departmental Accounts – JD

Appropriation of common cost; preparation of departmental trading and P/L account. Consolidated Trading and P/L account; inter departmental transfer of goods at cost, cost plus and at selling price and elimination of unrealized profit.

Paper H.II (Honours)

Cost and Management Accounting

Full Marks 100

Module 1: (50 Marks)

1. Introduction- Meanings and Concepts of Cost, Costing, Cost Accounting and Cost Accountancy- Objectives and Functions of Cost Accounting - Steps for installation of Cost Accounting System- Meanings & Concepts of Cost Unit, Cost Centre, Service Centre, Profit Centre, Product Costs, Period Costs, Conversion Costs. Definition, Concept, Scope, Function and Limitations of Management Accounting- Management Accounting Vs Financial Accounting- Management Accounting Vs Cost Accounting- Relationship with Financial Accounting & Management Accounting- Position of Management Accountant in the Organization. **PN, TKS AND SPC**

2. Elements of Cost & Cost Sheet- Elements of Cost- Direct and Indirect Material, Direct and Indirect Labour, Direct and Indirect Expenses; Indirect Cost (or Overhead)- Factory Overhead, Administrative Overhead, and Selling & Distribution Overhead. Preparation of Cost Sheet. **PN**

3. Material Costs - Importance of Material Cost Control- Purchase Procedure- Stores Control-Types of Stores- Stores Records - Perpetual Inventory System– Stock Levels (Minimum Level, Maximum Level, Ordering or Reordering Level, Danger Level) - Bin Card & Stores Ledger- ABC Analysis- VED Analysis- JIT Inventory– EOQ: Concept & Application– Methods of Pricing Material Issues (FIFO, LIFO, Simple & Weighted Average Methods). **SPC**

4. Labour Costs- Importance of Labour Cost Control- Time Keeping & Time Booking (Meaning, Concept, Objectives, Advantages, Limitations & Differences)- Idle Time (Causes and treatment in Cost Accounting)- Over Time- Labour Turnover (Causes and treatment of labour turnover)– Items of Labour Costs (Direct

Labour Cost & Indirect Labour Cost)– Time Rate and Piece Rate Plans of Employee Remuneration, Incentive Bonus Schemes- Halsey Premium Bonus Plan, Rowan Premium Bonus Plan, Comparison between Halsey and Rowan Premium Bonus Plan, Halsey-Weir Plan, – Incentive to Indirect Workers.

TKS

5. Overhead Costs- Definition and Classification (Element, Function and Behaviour wise)– Meaning & Concept of Overhead Allocation and Apportionment and its differences– Distribution to Production and Service Departments– Re-Apportionment [Direct Method, Step Method, Reciprocal Service Methods (including Repeated Distribution & Simultaneous Equation Methods)]– Absorption of Overheads (Meaning & Concept)– Methods of Absorption (Hourly Rate Methods: Labour Hour Rate & Machine Hour Rate)– Under/Over Absorption (Meaning, Concept & Reasons for Under/Over Recovery, Treatment of Under/Over-absorbed Overhead). **PN**

6. Operating Costing- Definition & Concept of Operating Costing–Components of Operating Costing– Areas of Application of Operating Costs with examples– Distinction between Operating Costing & Operation Costing– Procedure of the Operating Costing System. **TKS**

Module 2: (50 Marks)

1. Cost Control Accounts- Introduction- Important Ledgers- Journal Entries- Preparation of Costing Profit & Loss Account. Reasons for variation between profit as per cost accounts and profit as per financial accounts- Simple problems on reconciliation of two profits. **JD**

2. Contract Costing- Definition - Costing Procedure - Profit on incomplete contracts - Cost plus contract - Escalation Clause - Retention Money - Preparation of Contract Accounts. **JD**

3. Process Costing- Definition, Features, Advantages & Limitations of Process Costing - Process Losses – Preparation of Process Accounts (including Normal & Abnormal Loss, Abnormal Gain, Value of Scrap) – Equivalent Production (Simple Problems) – Inter-process profits (Simple Problems) - By-products & Joint products (Meaning and Distinction). **SPC**

4. Marginal Costing and Cost Volume Profit Analysis- Concepts and Definitions of Marginal Cost, Marginal Costing & Contribution -Merits and Demerits of Marginal Costing- Distinction between Absorption Costing & Marginal Costing- Marginal Cost Equation- Techniques of Marginal Costing. Meaning & Importance of Cost-Volume-Profit Analysis- BEP Analysis- Break Even Chart- P/V Ratio- Cost-Volume-Profit Relationship- Profit/Volume Chart- Margin of Safety- Angle of Incidence- Decision-making with the help of Marginal Costing (elementary level). **PN**

5. Standard Costing- Meaning of Standard Cost– Difference between Standard Cost and Estimated Cost-Meaning, Advantages, & Limitations of Standard Costing- Standard Costing **PN**

6. Budget and Budgetary Control- Definitions, Concepts, Objectives, Advantages & Limitations of Budget & Budgetary Control- Features of an effective Budget- Types of Budget- Steps in Budgeting- Principal Budget Factors- Budget Committee- Budget Manual- Establishing a system of Budgetary Control-

Preparation of Cash Flexible and Functional Budgets; Basic Concept of Zero-Base Budgeting (ZBB).

JD

Group 3 Paper I (General Elective)
Principles of Financial Accounting
Full Marks 100
Module-1: (50 Marks)

(EXPECTED LEVEL OF KNOWLEDGE- SOLUTION OF SIMPLE PROBLEMS)

1. Introduction to Accounting

(i) Meaning of Accounting (ii) Users of Accounting information (iii) Qualitative characteristics of Accounting information (iv) Generally Accepted Accounting Principles (GAAP) (v) Accounting Concepts and Conventions (vi) Concept of Accounting Standards and their mandatory application under Companies Act. **SPC**

2. Basic Principles of preparing Final Accounts

(i) Valuation of Inventory, Accounting for Fixed Assets, Depreciation and Intangible Assets. (ii) Provisions and Reserves (iii) Capital and Revenue (Expenditure and Income) (iv) Rectification of Errors, Adjusting Entries and Closing Entries. **JD**

3(a) Final Accounts of Profit Seeking Organisations

Preparation of Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship and Partnership Business (Vertical and Horizontal Formats) **JD**

(b) Preparation of Final Accounts of Not-for-Profit Organisations

Receipts and Payment Account, Income and Expenditure A/C and Balance Sheet. **SPC**

4. Bills of Exchange

SPC

5. Partnership Accounts

(a) Profit and Loss Appropriation accounts; Capital & Current A/C; Guarantee – by firm, by partner and both; Correction of appropriation items with retrospective effect. **PN**

(b) Changes in constitution of firm – Change in profit sharing ratio, Admission, Retirement, Retirement cum Admission—treatment of Goodwill, revaluation of assets and liabilities, treatment of reserves and adjustment relating to capital; treatment of Joint Life Policy, Death of a Partner. Dissolution of Firm – excluding piecemeal distribution **PN**

Module 2 (50 Marks)

1. Accounting for special sales transactions

(a) **Consignment:** Recording in the books of Consignor – at cost, valuation of unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special Commission, Del Credere commission (with or without bad debt Use of consignment debtors a/c. Recording in the books of Consignee. **SPC**

(b) **Joint Venture:** Separate set of books and Memorandum method. **SPC**

(c) **Accounting for sales on approval** **JD**

2. Insurance claim for Loss of stock **JD**

3. Self balancing and Sectional Balancing system. **SPC**

6. Elements of Macro Economics: a) National income- Measurement – consumption function– Determination of equilibrium level of income – Multiplier – Quantity theory of money – inflation and deflation; b) Public Finance: Different sources of public revenue – Direct and indirect Tax – public expenditure – public debt – deficit financing.

Module 2: Business Environment & Indian Economic Problems (50 Marks)

1. Business Environment: Meaning-Objectives-Internal and External Environment Factors, International Business Environment, Barriers to Free Trade-Tariffs, Quotas; Socio, Political and Cultural Factors.

2. Indian Economic Problems Basic Issues: Features of Indian Economy- Sectoral change in national Income-Problems of Population, Poverty and unemployment

3. Agriculture: problems of Indian agriculture-Strategy for agricultural development-Land reform measures –Green revolution-problems of rural credit and marketing-co-operative farming.

4. Industry: Industrial Policy-Role Of Public Sector –Industrial labour-Industrial sickness-Foreign capital in India; Role of Government: Monetary and Fiscal Policy, Industrial Policy, Privatization, Disinvestment of public enterprises, Foreign exchange problems.

5. International Environment: Globalization: Meaning, Problems in International Market, Trend in world trade and the problems of developing countries-India's Balance of payments during plan period-International economic institutions; WTO. World Bank, IMF.

Group 2 Paper I (General Common)

Business Communication & Entrepreneurship Development

Full Marks 100

Module 1: Business Communication (50 Marks)

1. Business Communication: Meaning, Nature and Purposes of business communication. Methods of business communication, Network and channels; Feedback as the Essence of communication: Essentials of a good business communication system; Barriers of communication and remedial measures.

JD

2. Importance of Communication: (A) Conflict- Inter and Intra-group conflict, Group Cohesiveness. (B) Group Discussion, Mock interview, and Seminar (Colleges are expected to conduct practical classes).

JD

3. Types of Communication: Corporate communication; Vertical Communication, Formal Communication, Informal Communication, Horizontal Communication. **TKS**

4. Tools of Communication: Emergence of Communication, Technology of Communication, Modern forms of Communication – Fax, SMS, Electronic Mail, Video Conferencing. **TKS**

5. Practice of Effective Communication (Answers are to be given in English only): Drafting of Notice, Circular, Minute, Resolution, Report; Letter Writing- Letter of Offer, Quotation, Order Confirmation,

Execution, Refusal and Cancellation of Order, Status Inquiries, Recommendation and Credit Collection, Claim.

TKS

Module 2: Entrepreneurship Development (50 Marks)

1. Definition of Entrepreneurship and the Entrepreneur: The nature of entrepreneurship– Characteristics of entrepreneurs and entrepreneurship, types of entrepreneurs, Role and importance of entrepreneurs, the functions of entrepreneurs, Entrepreneurial qualities of entrepreneurs, Meaning of Creativity and Innovation– the role of Creativity and Innovation in entrepreneurship, Evolution of entrepreneurship, Personal ethics and the entrepreneur, Entrepreneur and Manager. **SPC**

2. Different forms of Entrepreneurship: Small scale entrepreneurship– role of government of India in the development of small-scale entrepreneurship, family venture, Sole-proprietorship, corporate entrepreneurship, co-operative form of entrepreneurship; Government as entrepreneur; Entrepreneurship in service industries, Role of MNCs as entrepreneurs. **SPC**

3. The Entrepreneur and the Law: Need for legal protection of innovations and the entrepreneur, Patent Right, Trademark, Copyright, Intellectual Property Right. **SPC**

4. Financing of New Ventures: Need of financing new ventures; Methods of financing - Equity financing, Venture capital, Debt financing and Government grants. **SPC**

5. Project Planning and Feasibility Studies: Concept of a Project – definition of project planning – Steps and Methods in the preparation of project planning and feasibility studies, Preparation of project reports (students are expected to prepare and submit project reports to the concerned teachers). **PN**

Session 2017-2018

Costs (Direct Labour Cost & Indirect Labour Cost)– Time Rate and Piece Rate Plans of Employee Remuneration, Incentive Bonus Schemes- Halsey Premium Bonus Plan, Rowan Premium Bonus Plan, Comparison between Halsey and Rowan Premium B.Com. Part II

Paper H.III. (Honours)

Direct and Indirect Taxation

Full Marks 100

Module-I (50 Marks)

1. a) Basic Concepts and Definitions under Income Tax Act, 1961: Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning **JD**

b) Residential Status of an individual and Incidence of Tax **SPC**

c) Fully Exempted income of an Individual **JD**

d) Agricultural Income: Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income.

JD

2. Heads of Income and Provisions governing Heads of Income:

(a) **Income from Salaries** **PN**

(b) **Income from House Property** **JD**

(c) **Profits and Gains from Business or Profession:** Special emphasis on section 28, 32, 35, 35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B. **TKS**

(d) **Capital Gain:** Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, exemptions u/s 54, 54B, 54D, 54EC and 54F, Taxability of Short Term Capital Gain and Long Term Capital Gain. **TKS**

(e) **Income from Other Sources** (excluding Dividend): Basic concepts. **TKS**

3. a) Income of other Persons included in Assessee's Total Income: Section 60 to 65 **PN**

b) **Set off and Carry Forward of Losses:** Mode of Set off and Carry Forward, Inter Source and Inter Head Adjustment, Carry forward and set off of losses u/s 71, 72, 73, 74, 74A.

JD

c) **Deductions from Gross Total Income:** Basic concepts - deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80GGA, 80GGC, 80QQB, 80RRB, 80TTA, 80U. **PN**

4. Computation of Total Income and Tax Liability of an Individual **TKS**

Module II – 50 Marks

Section A (25 Marks)

1. Pre-Assessment and Assessment Procedure of an Individual

a) **Provision for Filing of Return:** Due Date of Filing of Return, Relevant forms of Return, different Types of Returns, Return by whom to be Signed, E-Filing of Return, PAN, TAN.

JD

b) **Assessment of Income:** Self Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147. **JD**

c) **Advance Tax,** Refund of Tax and Tax Clearance Certificate. **TKS**

d) **Interest-** Interest u/s 234A, 234B, 234C, (simple problems) **TKS**

e) **TDS -** TDS from Salary, Lottery, Horse racing, Interest on Securities. **TKS**

Section B (25 Marks)

2. Service Tax

Basic Concepts and General Principles; Charge of service tax including negative list of services; Point of taxation of services; Exemptions and Abatements; Valuation of taxable services; Invoicing for tax able services; Payment of service tax; Registration; Furnishing of returns; CENVAT Credit [Rule 1 - 9 of CENVAT Credit Rules, 2004]. **TKS**

3. Central Excise Act, 1944

Basic concepts, Conditions of Imposing Excise liability, Taxable event of Excise duty, Definitions of Goods, Manufacture, Excisable goods, Factory, Broker or Commission agent, Wholesale dealer, Sale or Purchase. **TKS**

4. Central Sales Tax Act, 1956

Definitions: Dealer, Sale, Turnover, Sale Price, Sale or Purchase in course of Inter State trade or Commerce, Sale or Purchase outside a State, Sale or Purchase in the course of Import or Export; Incidence and levy of tax, Exemption and Exclusion, determination of Turnover and tax payable, Registration of Dealer, Forms under CST. **JD**

5. West Bengal Value Added Tax Act, 2003

Basic concepts, features, advantages and disadvantages of VAT, Rate of tax, Definitions: Business, Goods, Taxable Goods, Capital Goods, Dealer, Zero Rated Sales, Manufacturer, Input tax, Output tax, Input tax credit. Incidence and levy of tax, Determination of tax payable, Registration of dealer. **JD**

Paper H.IV. (Honours)

Advanced Business Mathematics and Statistics

Full Marks 100 (50+50)

Module I - Mathematics (50 Marks)

1. Variation, Laws of Indices and Surds

2. (A) **A.P. Series:** Definition, Common difference, General term, A.M., Sum of first n terms of an A.P. **SS**

(B) **G.P. Series:** Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P. **SS**

3. (A) **Permutation** (elementary ideas)- Definition of permutation, Number of permutations of n different things taken r at a time. (i.e. ${}^n P_r$); Permutation of n things taken all together, when things are not all different; Restricted Permutations (formulae and applications only –no deduction): *Permutation of n different things taking r at a time - (i) when m particular things will never occur, (ii) when m particular things will always occur, (iii) when m particular things will always remain in m pre-assigned places, (iv) each thing can be taken*

SS

(B) **Combination** (elementary ideas): Definition of combination, Combination of n different things taken r at a time (i.e. ${}^n C_r$), ${}^n C_r = {}^n C_{n-r}$; Restricted Combinations (formulae and applications only – no deduction): *Combination of n different things taken r at a time (i) when p particular things will always occur, (ii) when p particular things would never occur; To find the total number of selections of $(p+q)$ things from $(m+n)$ different things, when p things are to be chosen from the group of m , and q from that of n .* **SS**

4. **Logarithm:** Definition and properties of logarithm and their applications. **SS**

5. **Compound Interest and Annuities:** Different types of interest rates; Concept of Present value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds. **SS**

6. **Calculus** (Elementary ideas)

CB

(A) **Functions, Limit and Continuity:** Variables, constants, parameters, functions, idea of rational functions, exponential functions, logarithmic functions, increasing functions, decreasing functions, algebraic functions. Idea of limit, algebra of limits, limit of a function of functions, simple application of some standard limits in evaluating limits; Geometrical idea of continuity of function at a point, various types of discontinuities.

(B) **Differentiation** (non-trigonometric simple problems only): Definition, Derivative of a constant function, x^n (for real n), Working rule of derivative of x^n , rules of differentiation of sum, product and quotient of two functions. **CB**

(C) **Integration** (non-trigonometric simple problems only): Integration as the inverse of differentiation. Integration of simple functions (polynomials only). Definite integral as a limit of a sum; Definite integrals of x , x^2 , x^3 etc. Fundamental theorem of Integral Calculus (statement only). **CB**

Note: No question should be based on trigonometric application.

Module II: Statistics (50 Marks)

1. (A) **Introductory ideas:** Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties **DA**

(B) **Diagrammatic representation:** Histogram, Frequency Polygon and Ogive. **DA**

2. (A) **Different Measures of Central Tendency:** Common measures of central tendency – mean, median and mode; Partition values – quartiles, deciles, percentiles.

DA

(B) **Different Measures of Dispersion:** Absolute measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Relative measures of dispersion. **DA**

(C) **Moments, Skewness and Kurtosis:** Different types of moments and their relationships; Meaning of skewness and kurtosis; Different measures of Skewness and Kurtosis. **DA**

3. **Correlation Analysis:** Scatter diagram; Pearson's co-efficient of correlation: calculation and properties (proofs not required). Probable and standard errors; Rank Correlation; **DA**

4. **Regression Analysis:** Principle of least squares and regression lines. Regression equations and estimation; Standard Error of Estimates. **SS**

5. **Index Numbers:** Meaning and uses of index numbers; Construction of index numbers: fixed and chain base, univariate and composite; Aggregative and average of relatives – simple and weighted; Tests of adequacy; Base shifting, splicing, deflating; Construction of Consumer price index. **SS**

6. (A) **Set Theory:** Definition of Set; Presentation of Sets; Different types of Sets- Null Set, Finite & Infinite Sets, Universal Set, Subset, Power Set etc.; Set operations; Laws of algebra of Sets.

SS

(B) **Theory of Probability:** Theory of Probability; Approaches to the calculation of probability; Calculation of event probabilities; Addition and multiplication laws of probability; Conditional

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B.Com (General)

**Group 3 Paper II (General Elective) Fundamentals
of Taxation
Full Marks 100**

Module I: (50 Marks)

1. a) Basic Concepts and Definitions under Income Tax Act, 1961: Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning. **JD**

b) Residential Status of an individual and Incidence of Tax **JD**

c) Fully Exempted income of an Individual **PN**

d) Agricultural Income: Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income. **PN**

2. Heads of Income and Provisions governing Heads of Income:

(a) Income from Salaries **PN**

(b) Income from House Property **JD**

(c) Profits and Gains from Business or Profession: Special emphasis on section 28, 32, 35, 35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B. **TKS**

(d) Capital Gain: Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, Taxability of Short Term Capital Gain and Long Term Capital Gain **TKS**

(e) Income from Other Sources (excluding Dividend): Basic concepts. **TKS**

3. Deductions from Gross Total Income: Basic concepts - deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80TTA, 80U. **PN**

4. Computation of Total Income and Tax Liability of an Individual.

Module 2 – 50 Marks

1. Pre-Assessment and Assessment Procedure of an Individual

a) **Provision for Filing of Return:** Due Date of Filing of Return, Relevant forms of Return,

different Types of Returns, Return by whom to be Signed, E-Filing of Return, PAN, TAN.

JD

b) **Assessment of Income:** Self Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147.

JD

c) **Advance Tax**, Refund of Tax and Tax Clearance Certificate.

TKS

d) **Interest**

TKS

Interest u/s 234A, 234B, 234C, (simple problems)

e) **TDS**

TDS from Salary, Lottery, Horse racing, Interest on Securities.

TKS

2. Central Sales Tax Act, 1956

Definitions: Dealer, Sale, Turnover, Sale Price, Sale or Purchase in course of inter State trade or Commerce, Sale or Purchase outside a State, Sale or Purchase in the course of Import or Export, Incidence and levy of tax, Exemption and Exclusion, determination of Turnover and tax payable, Registration of Dealer, Forms under CST.

TKS

3. West Bengal Value Added Tax Act, 2003

Basic concepts, features, advantages and disadvantages of VAT, Rate of tax, Definitions: Business, Goods, Taxable Goods, Capital Goods, Dealer, Zero Rated Sales, Manufacturer, Input tax, Output tax, Input tax credit. Incidence and levy of tax, Determination of tax payable, Registration of dealer.

TKS

4. Service Tax

Basic Concepts and General Principles; Charge of service tax including negative list of services; Point of taxation of services; Exemptions and Abatements; Valuation of taxable services; Invoicing for tax able services; Payment of service tax; Registration; Furnishing of returns.

TKS

Group 3 Paper III (General Elective) Auditing, Business Mathematics and Statistics Full Marks 100 Module I: Auditing (50 Marks)

1. Introduction – Definition of Auditing, Standards on Auditing (Preliminary idea only), Objectives of Audit, Basic Principles Governing an Audit, Scope of Audit, Inherent limitations of Audit, Different types of Audit, Auditing and Investigation. Basic Concepts in Auditing - Auditor's Independence, Advantages of an independent Audit, Audit Evidence, Concept of Materiality, Concept of True and Fair.

PN

2. Preparation for an Audit - Auditor's Engagement, Audit Process, Audit Techniques, Audit Planning, Audit Programme, Continuous and Final Audit, Audit Planning and Materiality, Audit Working Papers, Quality Control for Audit Work, Elements of Statistical Sampling, Audit Risk, Surprise Checks, Obtaining Certificate from Management.

PN

3. Internal Control, Internal Check and Internal Audit - Concept of Internal Control, Internal

Control and Management, Internal Control and the Auditor, Testing of Internal Control, Examination in Depth, Internal Check, Internal check and Auditor, Internal Audit, Relationship between the Statutory and the Internal Auditors, Internal Financial Control.

PN

4. Vouching – Concept of Vouching; Vouching of- Cash Transactions, Payments, Receipts, Trading Transactions, Purchases, Sales; Verification of Bank Balance and Cash-in-Hand.

TKS

5. Audit of Sole Proprietorship Concern and Partnership Firm.

TKS

Module II: Business Mathematics and Statistics (50 Marks)Part

A- Mathematics (25 Marks):

1. (a) Variation **SS**
(b) Laws of Indices and Surds **SS**
2. (a) A.P. Series: Definition, Common difference, General term, A.M., Sum of first n terms of an A.P. **SS**
(b) G.P. Series: Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P. **SS**
3. Equations: Linear: simultaneous linear equations up to three variables. **DA**
4. Compound Interest & Annuities: Different types of interest rates; Concept of Present Value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds. **DA**

Part B- Statistics (25 Marks):

1. (A) **Introductory ideas:** Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties. **CB**
(B) **Diagrammatic representation:** Histogram, Frequency Polygon and Ogive. **CB**
2. **Different Measures of Central Tendency:** Common measures of central tendency – mean, median and mode; Partition values – quartiles, deciles, percentiles. **CB**
3. **Different Measures of Dispersion:** Common measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Measures of relative dispersion. **CB**
4. (A) **Correlation Analysis:** Scatter diagram; Pearson's co-efficient of correlation; Rank Correlation; **CB**
(B) **Regression Analysis:** Regression equations and estimation [Elementary level]. **CB**

Group 1 Paper II (Common Paper) Business

Law

Full Marks 100

Module I: (50 Marks)

1. The Indian Contract Act, 1872- Introduction, Offer and Acceptance, Consideration, Capacity of Parties, Consent Void and Voidable Agreements, Contingent and Quasi Contracts, Discharge of Contracts, Breach of Contract, Special Contracts. **TKS**

2. The Sale of Goods Act, 1930 –Introduction, Conditions and Warranties, Doctrine of Caveat Emptor and its Exceptions, Transfer of Ownership, Transfer of Title by Non-owners. **TKS**

3. The Negotiable Instruments Act, 1881- Definition, features; Promissory Note, Bill of Exchange and Cheque – essential elements; distinction between Promissory Note, Bill of Exchange and Cheque; types of cheques – modes of crossing cheques; inchoate stamped instrument; accommodation bill; fictitious bill; Endorsement – types of endorsement; Holder and Holder in Due Course: rights of holder in due course; Dishonour of Negotiable Instruments: modes of dishonour; consequences; notice of dishonour; Noting; Protest. **TKS**

4. Consumer Protection Act, 1986- Introduction: objective of the Act, definitions of complaint, consumer; consumer dispute, goods, services, etc.; Consumer Dispute Redressal Agencies: composition and jurisdiction of district forum, State Commission and National Commission; Manner of Lodging a Complaint: procedure of complaint. **TKS**

5 Information Technology Act, 2000- Definitions; Digital Signature: Object and Definite Clause of Access affixing digital signature; Legal recognition: Use of electronic records; Retention and Publication; Controller: Appointment; Powers and Functions; Penalty and Adjudication; **TKS**

Module II: (50 Marks)

6. Indian Partnership Act, 1932- Partnership: meaning - partner, firm and firm name; essential elements; true test of partnership; Types of Partner: partnership distinguished from co- ownership, company, club; partnership by estoppels or holding out; limited partnership; Registration of Partnership Firm and consequences of non-registration; Minor's Position in Partnership: Rights and Duties of the Partner: relation of partners with third parties; implied authority of a partner restrictions on the implied authority of a partner; Dissolution of Firms: meaning and grounds of dissolution. **JD**

7. The Limited Liability Partnership Act, 2008- Nature of Limited Liability Partnership, Incorporation of Limited Liability Partnership and Matters Incidental Thereto; Partners and their relations, Extent and Limitation of Liability of Limited Liability Partnership and Partners; Contribution, Financial Disclosures, Accounts & Audit, Winding up and Dissolution.

8. Companies Act, 2013- (i) **Introduction** –Definitions, features, concept of corporate veil, doctrine of lifting of corporate veil, Introduction of a new Companies Act 2013 replacing the Act of 1956. **SPC**

(ii) **Types of Companies-** Private company, public company, one person company, small company, dormant company, associate company, government company – differences between private and public company, conversion of private company into public company and vice-versa, conversion of one person company into private and public company; **SPC**

(iii) Memorandum of Association- definition, contents, alteration, Doctrine of Ultra Vires, **Article of Association-** definition, contents, alteration, limitation to alteration, distinction: alteration of Memorandum and Articles of Association, legal effectiveness of Memorandum and Articles of Association, doctrine of Indoor Management; **SPC**

(iv) Prospectus- definition, types: abridged prospectus, Shelf prospectus, red- herring prospectus and contents, misstatement in a prospectus, liability for mis-statement in a prospectus.

SPC

(v) Formation of Company- promoters – legal status, duties, liabilities and remuneration; essential steps, procedure for registration and incorporation, certificate of incorporation and commencement of business;

SPC

(vi) Share Capital – definition of share, share capital and stock; kinds of share capital: equity share capital, sweat equity share; preference shares: types of preference shares, rules for issuing preference shares; allotment of shares, statutory provisions on allotment of shares; ESOP (Employees stock option scheme); rights issue; bonus share; buy back of shares; share certificate and share warrants - distinction; transfer and transmission of shares; debenture- classification;

SPC

(vii) Director- definition, number, classification, director identification number (DIN), qualification, disqualification, appointment, legal position; number of directorship ; removal, resignation of director, ; duties, liabilities, powers of board of directors; Managing Director – qualification, appointment;

SPC

(viii) Company Meetings - quorum, resolution, minutes.

SPC

Group 1 Paper III (Common Paper)

Business Management

Full Marks 100

Module I: (50 Marks)

1. Introduction: concept, nature & scope, functions and significance of management. Is management an Art or a Science or both? **PN**

2. Different Schools of Management Thoughts – Contribution of Taylor, Fayol and Follett. Modern Management Theory- Quantitative or Mathematical Approach, Systems Approach and Contingency Approach. **JD**

3. Planning: concepts, importance, elements, types and steps in planning; Decision-Making: concepts and steps in decision-making; Forecasting: concepts, importance and methods of forecasting. **PN**

4. Organization: meaning, features, importance and steps in organization; Organization structure and its forms; Delegation of Authority; Line and Staff authority. **PN**

5. Motivation: meaning, factors and importance of motivation; Theories – Maslow and Herzberg. **PN**

Module II: (50 Marks)

6. Leadership: meaning and importance; **Leadership styles** Laissez-Faire, Autocratic, Participative, Transactional and Transformational; **Leadership Models** – Tannenbaum and Schmidt, Blake and Mouton. **SPC**

7. Coordination: concept, importance, principles and techniques.

SPC

8. Control: concept, importance, types and steps; Features of a good control system; Techniques of control. **SPC**

9. Communication: meaning, process, importance and methods; Barriers to communication. **JD**

10. Functional Areas of Management: Financial Management, Marketing Management, Human Resource Management and Operations Management - Concepts, Features, Scope and Importance.

PN

**Group 2 Paper II (Common Paper) Indian
Financial System**

Full Marks 100

Module I: (50 Marks)

1. Financial System: Meaning, Significance & Components; Structure of Indian Financial System **PN**

2. Reserve Bank of India:

(a) Organisation, Management, Functions- Credit creation and control **SPC**

(b) Monetary Policy- Objective, Different ways of RBI, impediments to the effectiveness of monetary policy. **PN**

3.(a) Commercial Banks: Importance, Objectives and Functions. **SPC**

(b) Development Banks: Concepts, objectives & functions of National & State level Development Banks (IFCI, IDBI, ICICI, NABARD, SIDCs). **PN**

4. Insurance Sector- LIC & GIC- Objectives and Functions. **PN**

5. Financial Regulatory Bodies -

(a) Fundamental ideas about various regulatory bodies (SEBI, Company Law Board, RBI, Insurance Regulatory body, Insurance Regulatory Development Authority (IRDA), Ministry of Finance. **PN**

(b) SEBI- Structure, Role in Investors' protection **PN**

Module II: (50 Marks)

1. Financial Market: An overview of Financial Market in India. **PN**

2. New Financial Instruments: Commercial Paper, Treasury Bill, Certificate of Deposit-Concepts, features and advantages. **JD**

3. Money Market: Concept, Structure of Indian money market, basic idea of its different components **JD**

4. Capital Market: Primary Market and secondary market- concept & interrelation, Function and role of Stock exchange (Including the basic ideas of types of stock market operation) **JD**

5. Financial Services: Fundamental idea of leasing, hire purchase, Merchant Banking, Securitization, factoring **PN**

**Group 2 Paper III (Common Paper) Accounting
for Local Bodies and Project Preparation**

Full Marks 100

Module I: Accounting for Local Bodies (50 Marks)

1. Introduction- Concept of local bodies; Salient features of 73rd Amendment of the Constitution in 1992, Article 243J- Audit of Accounts. **PN**

2. Provisions related to Accounts in the West Bengal Panchayat Act, 1973. Some important provisions of – (a) West Bengal Panchayat (Zilla Parishad and Panchayat Samiti) Accounts and Finance Rules 2003, (b) West Bengal Panchayat (Gram Panchayat Accounts, Audit and Budget) Rules 2007. **SPC**

3. Financial Statements of Municipalities- Balance Sheet, Income & Expenditure Account, Statement of Cash Flows, Receipts and Payments Account, and Notes to Accounts (Refer National Municipal Accounts Manual, 2004);

Important contents of the Accounting Manual for Urban Local Bodies, 2006, of the Govt. of West Bengal: **Part 1: Introduction to Double Entry Accrual- based Accounting** Para 4- New Accounting System (i.e. double entry accrual system of accounting); Para 6- Accounting Documents; Para 7- Financial Statements; Para 9- Fundamental Accounting Assumptions. **Part 5: Forms and Formats.** **SPC**

4. Accounting Standards- List of *Accounting Standards for Local Bodies* issued by the Institute of Chartered Accountants of India. **PN**

5. Financial Statements of PRIs (Panchayat Raj Institutions) and Municipalities- problem solutions; Software for Preparation of Financial Statements. **PN**

Module II: Project Preparation (50 marks - Report 30 marks & Viva-Voce 20 marks)
PN, JD, SPC, TKS, AKB

Examples of a few broad areas of Project (List is indicative, not exhaustive)

- Accounting and Finance of Local Bodies
- Any topic concerning local economic /entrepreneurial issues / new business proposal
- Agro based industry / cottage industry
- Commercial Crops including Horticulture & Sericulture
- Micro-finance/ Financial Inclusion
- Micro-insurance
- Small Savings
- Rural and Agricultural Banking
- Preservation & Storage of Agricultural Products
- Eco-tourism
- Hotels, Restaurants, Eateries
- Digital Service Providers- Photocopy, Mobile, Internet, Cable etc.
- Medical Service Providers
- Educational Service Providers
- Construction industry

- Small Traders/ Street Vendors/ Hawkers including Railway Hawkers
- Rural and Agricultural workers
- Role of Micro Small and Medium Enterprises
- Accounting Standards for Local Bodies.
- IFRS for SMEs
- Indian Accounting Standards (Rule of 2006, as amended in 2016)
- Schedule III of Companies Act, 2013
- Auditing Standards
- E-Commerce & M-commerce
- Credit Rating / Risk Management
- Frauds/ White Collar Frauds
- Subprime Meltdown and its after effect with case study from Indian Industry.
- Carbon Credit
- Value Added Tax (VAT) / Goods and Service Tax (GST)
- Public Sector Undertakings and Indian Economic Development
- Corporate Social Responsibilities
- Corporate Governance
- Financial Sector Reforms
- On-line Banking
- NPA Management
- Business Process Outsourcing
- Capital Market
- Environmental Accounting/ Environmental Management
- Financial Statement Analysis / Performance Analysis
- Working Capital Management
- Mergers & Acquisitions
- Study on Aviation Sector in India.
- Venture Capital
- Equity Linked Savings Scheme
- Insurance Industry in India
- Analysis of Mutual Funds
- Commercialization of Sports in India.
- Marketing Strategy of products
- Marketing and Promotional Strategies
- Market Research
- Brand Repositioning
- Customer Relationship Management
- Sales & Distribution Management
- Customer Awareness
- Industrial Marketing Vs. Consumer
- Study of Consumer Behaviour
- Packaging of Products
- After Sales Service and Customer Satisfaction
- Effectiveness of Advertising
- Direct Marketing & Networking

Guidelines for Project Writing: As Per Annexure

Annexure

Guidelines for Project Writing

Each of the students has to undertake a Project individually under the supervision of a teacher and to submit the same following the guidelines stated below.

- Language of Project Report and Viva-Voce Examination may be English or Bengali. The Project Report must be typed and spirally bounded.
- Failure to submit the Project Report or failure to appear at the Viva-voce Examination will be treated as –Absent in the Examination. He /she has to submit the Project Report and appear at the Viva-Voce Examination in the subsequent years (within the time period as per University Rules).
- No marks will be allotted on the Project Report unless a candidate appears at the Viva-Voce Examination. Similarly, no marks will be allotted on Viva-Voce Examination unless a candidate submits his/her Project Report.
- Evaluation of the Project Work to be done jointly by one internal expert and one external expert with equal weightage, i.e., average marks of the internal and external experts will be allotted to the candidate.
- A candidate has to qualify in the Project Work separately, obtaining a minimum marks of 20 (Project Report and Viva-Voce taken together) in paper III of Group 2.
- Marking Scheme for Project Report and Viva-Voce Examination:

Project Report (30 marks)

Chapter 1: Introduction – 5 marks

Chapter 2: Conceptual Framework/ National/International Scenario – 5 marks

Chapter 3: Presentation, Analysis & Findings -- 15 marks

Chapter 4: Conclusion & Recommendations -- 5 marks

Viva-Voce (20 marks)

In course of Viva-Voce Examination, the question may be asked in the following areas:

- Importance / relevance of the Study, Objective of the Study, Methodology of the Study /Mode of Enquiry – 5 marks
- Ability to explain the analysis, findings, concluding observations, recommendation, limitations of the Study—10 marks
- Overall Impression (including Communication Skill) -- 5 marks

THE COMPONENTS OF A PROJECT REPORT

The outcome of Project Work is the Project Report. A project report should have the following components:

1) Cover Page: This should contain the title of the project proposal, to whom it is submitted, for which degree, the name of the author, name of the supervisor, year of submission of the project work, name of the University.

2) Acknowledgement: Various organizations and individuals who might have provided assistance /co-operation during the process of carrying out the study.

3) Table of Content: Page-wise listing of the main contents in the report, i.e., different Chapters and its main Sections along with their page numbers.

4) Body of the Report: The body of the report should have these four logical divisions

a) **Introduction:** This will cover the background, rationale/ need / justification, brief review of literature, objectives, methodology (the area of the study, sample, type of study, tools for data collection, and method of analysis), Limitations of the Study, and Chapter Planning.

b) **Conceptual Framework / National and International Scenario:** (relating to the topic of the 19

Project).

c) **Presentation of Data, Analysis and Findings:** (using the tools and techniques mentioned in the methodology).

d) **Conclusion and Recommendations:** In this section, the concluding observations based on the main findings and suggestions are to be provided.

5) Bibliography or References: This section will include the list of books and articles which have been used in the project work, and in writing a project report.

6) Annexure: Questionnaire (if any), relevant reports, etc.

(The main text of the Project should normally be in the range of 5000 words. However, there may be annexure in addition to the main text)

THE STEPS OF PROJECT WORK

STEP I: Selection of the topic for the project by taking following points into consideration:

- Suitability of the topic.
- Relevance of the topic
- Time available at the disposal.
- Feasibility of data collection within the given time limit.
- Challenges involved in the data collection (time & cost involved in the data collection, possibility of getting responses, etc.)

STEP II: Finalisation of the Topic and preparation of Project Proposal in consultation with the Supervisor.

STEP III: Collection of information and data relating to the topic and analysis of the same.

STEP IV: Writing the report dividing it into suitable chapters, viz.,

Chapter 1: Introduction,

Chapter 2: Conceptual Framework / National & International Scenario,

Chapter 3: Analysis & Findings

Chapter 4: Conclusion and Recommendations.

Annexures,

References / Bibliography

STEP V: The following documents are to be attached with the Final Project Report.

1) Approval letter from the supervisor (Annexure-IA)

2) Student's declaration (Annexure-IB)

3) Certificate from the Competent Authority of the Organisation / Institution, if the student undertakes the Project Work in any Organisation / Institution.

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Paper H.V. (Honours)

Corporate Accounting & Reporting

Full Marks 100

MODULE I – 50 Marks

1. Framework of Corporate Accounting & Reporting: Meaning of Company and its Classification; Books of Accounts; Maintenance of Books of Accounts; Financial Year; Financial Statements – Meaning, Forms & Contents; Concept of True and Fair View, Authentication of Financial Statements; Filing of Financial Statements. **PN**

2. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture, Reissue and Buy-Back of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures, Employees' Stock Option Scheme (ESOS) and Employees' Stock Purchase Scheme (ESPS); Redemption of Preference Shares and Debentures.

TKS

3. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures –treatment of brokerage, cum & ex-interest and cum & ex-dividend transfer of securities; Valuation of Investment as per Accounting Standard AS 13.

JD

4. Final Accounts of Companies: Preparation of Statement of Profit & Loss and Balance Sheet as per Schedule III to the Companies Act, 2013.

PN

5. Accounting of Limited Liability Partnership-
MODULE II – 50 Marks

JD

6. Business Acquisition and Conversion of Partnership Firm into Limited Company: Amalgamation of Partnership Firms - accounting in the books of transferor and transferee firm; Conversion of Partnership into Limited Company –with the same or different set of books; Profit or Loss Prior to Incorporation - Accounting for Acquisition of Business.

PN

Reconstruction of Companies: Meaning of Internal and External Reconstruction of companies, Concept of and accounting for Amalgamation as per Accounting Standard - 14 (issued by ICAI, excluding inter-company holdings); Accounting for Internal Reconstruction (excluding preparation of scheme of reconstruction).

TKS

8. Valuation: Valuation of Goodwill and Shares.

JD

9. Holding Company: Preparation of Consolidated Balance Sheet of one subsidiary company (excluding problems on chain and cross holding).

PN

10. Financial Statement Analysis

SPC

(a) Ratio Analysis: Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios–liquidity, solvency, activity, profitability, capital structure, managerial efficiency; Preparation of financial statement and statement of proprietor's fund from relevant ratios.

(b) Funds Flow Statement: Concepts of fund – Meaning, nature, importance and limitations of funds flow statement – Various sources and uses of fund – Preparation of funds flow statement.

(c) Cash Flow Statement: Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. cash flow statement – Various sources and uses of cash – Preparation of cash flow statement.

(d) Common Size Statements: Meaning, Objectives and Preparation of Common Size Statements.

Note: All topics are to be studied with reference to the Companies Act, 2013 and relevant Accounting Standards in force.

Paper H.VI. (Honours)
Accounting Standards & Auditing
Full Marks 100

Module I: Accounting Standard (50 Marks)

1. Accounting Standards and Setting Process: Concept of Accounting Standards; Role of the Institute of Chartered Accountants of India in standard setting process; National Financial Reporting Authority and its role in framing Accounting Standards for companies; List of Accounting Standards contained in Companies (Accounting Standards) Rule 2006.

PN

2. Accounting Standard 1 (Disclosure of Accounting Policies) and Accounting Standard 2 (Inventories): All provisions of Accounting Standard 1 and 2. **JD**
3. Accounting Standard 9 (Revenue Recognition) & Accounting Standard 29 (Provisions, Contingent Liabilities and Contingent. Assets): Definitions and Main Standards. **JD**
4. Accounting Standard 10 (Property, Plant & Equipment): Problems based on AS 10. **PN**
5. An Overview of International Financial Reporting Standards/ International Accounting Standards (IFRSs/ IASs) and Companies (Indian Accounting Standards) Rules 2015. **JD**

Module II: Auditing (50 Marks)

6. Introduction- Definition of Audit, Difference between audit and assurance, concept and objectives of independent financial audit, Types of audit- Internal audit, Independent financial audit, Cost audit, Tax audit, Management audit, Secretarial audit. Types of tests- Substantive test and Compliance test. Concept of 'true & fair' and 'materiality'. **SPC**
7. Internal Control – Concept of- Internal check, Internal control, and Internal financial control. Importance of Internal check & Internal control for the purpose of audit. Questionnaire for verification of Internal control. Provision of the Companies Act 2013 in relation to Internal financial controls- (i) Explanation- Section 134(5)(e); (ii) Reporting requirement- 143(3)(i). **TKS**
8. Vouching & Verification (i.e. Substantive Test)-Vouching- Meaning, Objectives- Vouching of different items (Receipts and Payments related). Verification – Concept & Objectives; Verification of Share Capital, Loans (secured and unsecured), Fixed assets (Building, Plant and Machinery), Loans and Advances, Investment, Goodwill, Copy Right, Patent Right, Inventories, Debtors, Creditors. **SPC**
9. Audit of Limited Companies- Appointment (section 139), removal & resignation of auditors (section 140). Eligibility, Qualifications and disqualifications of auditors (section 141). Remuneration of auditors (section 142). Mandatory compliance of Auditing Standards [Section 143 (9) & (10)]. **TKS**
10. Auditors' Report – Definition; Distinction between Report and Certificate; Types of Opinion- (i) Unmodified or Clean, (ii) Qualified, (iii) Negative (iv) Disclaimer. Format of audit report (SA 700, SA 705 & SA 706). **TKS**

Paper H.VII. (Honours)
Financial Management and Capital Market
Full Marks 100

Module I

1. Fundamentals of Financial Management: Definition, Concept, scope, objective, and important of financial management. Objectives of the firm – profit maximization and wealth maximization. Time value of money. **PN**
2. Sources of Finance and Cost of Capital: Different sources of finance - long term and short term sources. Cost of capital - concept, relevance of cost of capital, specific costs and weighted average cost, rationale of after tax weighted average cost of capital, marginal cost of capital. **PN**
3. Working Capital and Its Management: Meaning, concept, composition, nature, types, of working capital. Determining factors of working capital. Working Capital Cycle Estimation of working capital requirements (excluding problems on extra shift working capital and working capital policy). Working Capital Management – Importance of working capital management, Working capital financing – Long-term, medium and short-term. **JD**
4. Capital Structure and Leverage: Meaning, concept, importance of capital structure. 22

Determining factors of capital structure. Concept of optimum capital structure. Various capital structure theories (NI, NOI) , Leverage – Concept, types and importance. Financial, operating and combined leverages, Trading on Equity, EBIT-EPS Analysis. Business Risk and Financial Risk. **SPC**

5. Capital Budgeting – Concept and importance of capital budgeting decisions. Different project evaluation techniques - ARR, Pay Back Period, NPV, IRR, PI. **SPC**

Module II

6. Dividend Decision: Meaning, concept and significance. Determinant of dividend policies. Analytical study of dividend policy theories – Walter’s Model, Gordon’s Model and MM Theory. **JD**

7. Basic Theoretical Framework: Concept and meaning of Capital Market – structure constituents and characteristics of capital market in India – Growth and Importance – Capital Market Efficiency . **JD**

8. New Issue Market and Secondary Market: Financial Instruments in Capital Market – Trading Mechanism of stock exchange – IPO Grading, Book Building Method, Private Placement, Dematerialisation. Credit Rating: Meaning – process of rating of financial instruments – Rating methodology – rating symbols by different rating agencies. **JD**

9. Depository Services: Role and functions of depository services – Advantages of depository system – NSDL and CDSL. **PN**

10. Recent Trends in Capital Market: Mutual Fund: Concept – Concept, Designing and marketing of Mutual Schemes – Types of mutual funds – NAV – NAV calculation, Regulatory Regime of mutual fund. Systematic Investment Plan (SIP) – Concept, importance and relevance. **SPC**

Paper H.VIII (Honours)

Honours Practical on Accounting & Taxation and Computer Applications

Full Marks 100

Module I: Written Practical on Accounting & Taxation

(50 Marks, including internal assessment 15 marks)

1. Preparation of different types of accounting vouchers/ documents- Debit Voucher, Cash Memo, Purchase Order, Challan, Invoice, Money Receipts, Debit Note, Credit Note, Goods Receipt Note, etc. **SPC**
2. (A) Maintenance of different types of Journals & Ledgers. Preparation of Trial Balance. (B) Preparation of Bank Reconciliation Statement based on Bank Statements/ Pass Book and cash book figures. (B) Preparation of Bank Reconciliation Statement based on Bank Statements/ Pass Book and cash book figures. (like real life situation). **PN**

3. Application for PAN (Form No 49A), TAN (Form No 49B). **TKS**

4. Computation of Income under Income Tax, computation of tax, filling up of Return Forms (ITR 1). **TKS**

Module II: Computer Applications

(50 Marks, including internal assessment 15 marks)

1. Tally (latest version)- Creation of Company, Creation of Ledger Heads, Creation of Stock Items. Entries in six types of accounting journals- Receipt, Payment, Contra, Purchase, Sales, Journal. (including VAT /GST at the time of Purchase/Sales, but excluding entries for manufacture of goods). Alteration/ deletion of Ledger Heads, Stock Items and Entries. **JD**

2. Preparation of Bank Reconciliation Statement in Tally. **JD**

3. Excel– Data entry and corrections, Insertion of Row & Column, Deletion of Row & Column, Change of Column width, Summation of numbers in a Column / Row, Sorting of data, 23

- Linking of cells, Formula copy, Freezing of Column / Row. **JD**
4. Drawing of Charts in Excel- Bar Chart, Column Chart, Pie Chart & Line Chart. Editing of Charts. **JD**

Session 2017-2018
B.Com (General) Part-III
Group 3 Paper IV (General Elective)
Advanced Accounting
Full Marks 100

MODULE I – 50 Marks

1. Accounting Theory and Accounting Standards: Concept of capital and capital maintenance, relation between capital and income, Limitations of Historic Cost accounting; Accounting Standards (ASs): AS-1, AS-2, AS-9 and AS-10 (Definitions and Main Provisions); An Overview of Indian Accounting Standards (Ind ASs) and International Financial Reporting Standards (IFRSs). **JD**
2. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture, Reissue and Buy-Back of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures, Employees' Stock Option Scheme (ESOS) and Employees' Stock Purchase Scheme (ESPS). **PN**
3. Redemption of Preference Shares and Debentures (Simple Problems) **JD**
4. Profit or Loss Prior to Incorporation **PN**
5. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures –treatment of brokerage, cum & ex-interest and cum & ex-dividend transfer of securities; Valuation of Investment as per Accounting Standard AS 13. **JD**

MODULE II – 50 Marks

6. Final Accounts of Companies: Preparation and Presentation of Statement of Profit & Loss and Balance Sheet as per Schedule III of the Companies Act, 2013. **PN**
7. Ratio Analysis: Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios–liquidity, solvency, activity, profitability, capital structure, managerial efficiency. **JD**
8. (a) Funds Flow Statement: Concepts of fund – Meaning, nature, importance and limitations of funds flow statement – Various sources and uses of fund – Preparation of funds flow statement. **PN**
(b) Cash Flow Statement: Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. cash flow statement – Various sources and uses of cash – Preparation of cash flow statement. **JD**
9. Amalgamation and Reconstruction of Companies: Different types of Amalgamation and their accounting treatment as per Accounting Standard - 14 issued by ICAI (Simple problem excluding inter-company holdings); Internal Reconstruction: Concepts and accounting treatment excluding scheme of reconstruction (Simple Type). **PN**
10. Valuation: Valuation of Goodwill and Shares (Simple Type). **PN**

Note: All topics are to be studied with reference to the Companies Act, 2013 and relevant Accounting Standards in force.

Group 3 Paper V (General Elective)
Fundamentals of Cost & Management Accounting
Full Marks 100 (50+50)

Module 1: (50 Marks)

1. Introduction- Meanings and Concepts of Cost, Costing, Cost Accounting and Cost Accountancy- Objectives and Functions of Cost Accounting - Steps for installation of Cost Accounting System- Meanings & Concepts of Cost Unit, Cost Centre, Service Centre, Profit Centre, Product Costs, Period Costs, Conversion Costs. Definition, Concept, Scope, Function and Limitations of Management Accounting- Management Accounting Vs Financial Accounting- Management Accounting Vs Cost Accounting- Relationship with Financial Accounting & Management Accounting- Position of Management Accountant in the Organization. **SPC**
2. Elements of Cost & Cost Sheet- Elements of Cost- Direct and Indirect Material, Direct and Indirect Labour, Direct and Indirect Expenses; Indirect Cost (or Overhead)- Factory Overhead, Administrative Overhead, and Selling & Distribution Overhead- Preparation of Cost Sheet. **TKS**
3. Material Costs - Importance of Material Cost Control- Purchase Procedure- Stores Control-Types of Stores- Stores Records - Perpetual Inventory System– Stock Levels (Minimum Level, Maximum Level, Ordering or Reordering Level, Danger Level) - Bin Card & Stores Ledger- ABC Analysis– EOQ: Concept & Application– Methods of Pricing Material Issues (FIFO, LIFO & Simple Average Method). **SPC**
4. Labour Costs- Importance of Labour Cost Control- Time Keeping & Time Booking (Meaning, Concept, Objectives, Advantages, Limitations & Differences)- Idle Time (Causes and treatment in Cost Accounting)- Over Time- Labour Turnover (Causes and treatment of labour turnover)– Items of Labour Bonus Plan. **SPC**
5. Overhead Costs- Definition and Classification (Element, Function and Behaviour wise)– Meaning & Concept of Overhead Allocation and Apportionment and its differences– Distribution to Production and Service Departments— Absorption of Overheads (Meaning & Concept)– Methods of Absorption (Hourly Rate Methods: Labour Hour Rate & Machine Hour Rate)– Under/Over Absorption (Meaning, Concept & Reasons for Under/Over Recovery, Treatment of Under/Over-absorbed Overhead). **TKS**

Module 2: (50 Marks)

1. Contract Costing- Definition - Costing Procedure - Profit on incomplete contracts - Cost plus contract - Escalation Clause - Retention Money - Preparation of Contract Accounts (Introductory Level). **SPC**
2. Process Costing- Definition, Features, Advantages & Limitations of Process Costing - Process Losses –Preparation of Process Accounts (including Normal & Abnormal Loss, Abnormal Gain, Value of Scrap): Simple Problems Only – Equivalent Production (Meaning & Concept) - By-products & Joint products (Meaning and Distinction). **SPC**
3. Marginal Costing and Cost Volume Profit Analysis- Concepts and Definitions of Marginal Cost, Marginal Costing & Contribution -Merits and Demerits of Marginal Costing- Distinction between Absorption Costing & Marginal Costing- Marginal Cost Equation- Techniques of Marginal Costing. Meaning & Importance of Cost-Volume-Profit Analysis- BEP Analysis- Break Even Chart- P/V Ratio- Cost-Volume-Profit Relationship- Profit/Volume Chart- Margin of Safety- Angle of Incidence- Decision-making with the help of Marginal Costing (elementary level). **SPC**
4. Standard Costing- Meaning of Standard Cost– Difference between Standard Cost and Estimated Cost- Meaning, Advantages& Limitations of Standard Costing- Standard Costing Vs Budgetary Control- Computation and Analysis of Variances (Material & Labour): Simple Problems Only. **TKS**
5. Budget and Budgetary Control- Definitions, Concepts, Objectives, Advantages & Limitations of Budget & Budgetary Control- Features of an effective Budget- Types of Budget- Steps in Budgeting- Principal Budget Factors- Budget Committee- Budget Manual- Establishing a system of Budgetary Control- Basic Concept of Zero-Base 25

Group 3 Paper VI (General Elective)
General Practical on Accounting & Taxation and Computer Applications
Full Marks 100 (50+50)

Module I: Written Practical on Accounting & Taxation

(50 Marks, including internal assessment 15 marks)

1. Preparation of different types of accounting vouchers/ documents- Debit Voucher, Cash Memo, Purchase Order, Challan, Invoice, Money Receipts, Debit Note, Credit Note, Goods Receipt Note, etc. **SPC**
2. (A) Maintenance of different types of Journals & Ledgers. Preparation of Trial Balance. (like real life situation). **PN**
3. Application for PAN (Form No 49A), TAN (Form No 49B). **TKS**
4. Computation of Income under Income Tax, computation of tax, filling up of Return Forms (ITR 1). **TKS**

Module II: Computer Applications

(50 Marks, including internal assessment 15 marks)

1. Tally (latest version)- Creation of Company, Creation of Ledger Heads, Creation of Stock Items. Entries in six types of accounting journals- Receipt, Payment, Contra, Purchase, Sales, Journal. (including VAT /GST at the time of Purchase/Sales, but excluding entries for manufacture of goods). Alteration/ deletion of Ledger Heads, and Entries. **JD**
2. Excel – Data entry and corrections, Insertion of Row & Column, Deletion of Row & Column, Change of Column width, Summation of numbers in a Column / Row, Sorting of data, Linking of cells. **JD**
3. Drawing of Charts in Excel- Bar Chart, Column Chart, Pie Chart & Line Chart. **JD**

Session 2018-2019**B.Com. Part II**

Paper H.III. (Honours)

Direct and Indirect Taxation

Full Marks 100

Module-I (50 Marks)

5. a) **Basic Concepts and Definitions under Income Tax Act, 1961:** Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning **JD**
 - b) **Residential Status of an individual and Incidence of Tax** **SPC**
 - c) **Fully Exempted income of an Individual** **JD**
 - d) **Agricultural Income:** Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income. **JD**
6. **Heads of Income and Provisions governing Heads of Income:**
 - (f) **Income from Salaries** **PN**
 - (g) **Income from House Property** **JD**
 - (h) **Profits and Gains from Business or Profession:** Special emphasis on section 28, 32, 35, 35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B. **TKS**

(i) **Capital Gain:** Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, exemptions u/s 54, 54B, 54D, 54EC and 54F, Taxability of Short Term Capital Gain and Long Term Capital Gain. **TKS**

(j) **Income from Other Sources** (excluding Dividend): Basic concepts. **TKS**

7. a) Income of other Persons included in Assessee's Total Income: Section 60 to 65 **PN**

b) **Set off and Carry Forward of Losses:** Mode of Set off and Carry Forward, Inter Source and Inter Head Adjustment, Carry forward and set off of losses u/s 71, 72, 73, 74, 74A.

JD

c) **Deductions from Gross Total Income:** Basic concepts - deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80GGA, 80GGC, 80QQB, 80RRB, 80TTA, 80U. **PN**

8. Computation of Total Income and Tax Liability of an Individual **TKS**

Module II – 50 Marks

Section A (25 Marks)

6. Pre-Assessment and Assessment Procedure of an Individual

f) **Provision for Filing of Return:** Due Date of Filing of Return, Relevant forms of Return, different Types of Returns, Return by whom to be Signed, E-Filing of Return, PAN, TAN.

JD

g) **Assessment of Income:** Self Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147.

JD

h) **Advance Tax**, Refund of Tax and Tax Clearance Certificate. **TKS**

i) **Interest-** Interest u/s 234A, 234B, 234C, (simple problems) **TKS**

j) **TDS - TDS from Salary, Lottery, Horse racing, Interest on Securities.** **TKS**

Section B (25 Marks)

7. Service Tax

Basic Concepts and General Principles; Charge of service tax including negative list of services; Point of taxation of services; Exemptions and Abatements; Valuation of taxable services; Invoicing for tax able services; Payment of service tax; Registration; Furnishing of returns; CENVAT Credit [Rule 1 - 9 of CENVAT Credit Rules, 2004]. **TKS**

8. Central Excise Act, 1944

Basic concepts, Conditions of Imposing Excise liability, Taxable event of Excise duty, Definitions of Goods, Manufacture, Excisable goods, Factory, Broker or Commission agent, Wholesale dealer, Sale or Purchase. **TKS**

9. Central Sales Tax Act, 1956

Definitions: Dealer, Sale, Turnover, Sale Price, Sale or Purchase in course of Inter State trade or Commerce, Sale or Purchase outside a State, Sale or Purchase in the course of Import or Export; Incidence and levy of tax, Exemption and Exclusion, determination of Turnover and tax payable, Registration of Dealer, Forms under CST. **JD**

10. West Bengal Value Added Tax Act, 2003

Basic concepts, features, advantages and disadvantages of VAT, Rate of tax, Definitions: Business, Goods, Taxable Goods, Capital Goods, Dealer, Zero Rated Sales, Manufacturer, Input tax, Output tax, Input tax credit.

Incidence and levy of tax, Determination of tax payable, Registration of dealer. **JD**

Paper H.IV. (Honours)

Advanced Business Mathematics and Statistics

Full Marks 100 (50+50)

Module I - Mathematics (50 Marks)

7. Variation, Laws of Indices and Surds

8. (A) **A.P. Series:** Definition, Common difference, General term, A.M., Sum of first n terms of an A.P. **SS**

(B) **G.P. Series:** Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P. **SS**

9. (A) **Permutation** (elementary ideas)- Definition of permutation, Number of permutations of n different things taken r at a time. (i.e. ${}^n P_r$); Permutation of n things taken all together, when things are not all different; Restricted Permutations (formulae and applications only –no deduction): *Permutation of n different things taking r at a time - (i) when m particular things will never occur, (ii) when m particular things will always occur, (iii) when m particular things will always remain in m pre-assigned places, (iv) each thing can be taken*

SS

(B) **Combination** (elementary ideas): Definition of combination, Combination of n different things taken r at a time (i.e. ${}^n C_r$), ${}^n C_r = {}^n C_{n-r}$; Restricted Combinations (formulae and applications only – no deduction): *Combination of n different things taken r at a time (i) when p particular things will always occur, (ii) when p particular things would never occur; To find the total number of selections of $(p+q)$ things from $(m+n)$ different things, when p things are to be chosen from the group of m , and q from that of n .* **SS**

10. **Logarithm:** Definition and properties of logarithm and their applications. **SS**

11. **Compound Interest and Annuities:** Different types of interest rates; Concept of Present value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds. **SS**

12. **Calculus** (Elementary ideas) **CB**

(D) Functions, Limit and Continuity: Variables, constants, parameters, functions, idea of rational functions, exponential functions, logarithmic functions, increasing functions, decreasing functions, algebraic functions. Idea of limit, algebra of limits, limit of a function of functions, simple application of some standard limits in evaluating limits; Geometrical idea of continuity of function at a point, various types of discontinuities.

(E) **Differentiation** (non-trigonometric simple problems only): Definition, Derivative of a constant function, x^n (for real n), Working rule of derivative of x^n , rules of differentiation of sum,

product and quotient of two functions.

CB

(F) **Integration** (non-trigonometric simple problems only): Integration as the inverse of differentiation. Integration of simple functions (polynomials only). Definite integral as a limit of a sum; Definite integrals of x , x^2 , x^3 etc. Fundamental theorem of Integral Calculus (statement only).

CB

Note: No question should be based on trigonometric application.

Module II: Statistics (50 Marks)

7. (A) **Introductory ideas:** Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties **DA**

(B) **Diagrammatic representation:** Histogram, Frequency Polygon and Ogive. **DA**

8. (A) **Different Measures of Central Tendency:** Common measures of central tendency – mean, median and mode; Partition values – quartiles, deciles, percentiles.

DA

(D) **Different Measures of Dispersion:** Absolute measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Relative measures of dispersion. **DA**

(E) **Moments, Skewness and Kurtosis:** Different types of moments and their relationships; Meaning of skewness and kurtosis; Different measures of Skewness and Kurtosis. **DA**

9. **Correlation Analysis:** Scatter diagram; Pearson's co-efficient of correlation: calculation and properties (proofs not required). Probable and standard errors; Rank Correlation; **DA**

10. **Regression Analysis:** Principle of least squares and regression lines. Regression equations and estimation; Standard Error of Estimates. **SS**

11. **Index Numbers:** Meaning and uses of index numbers; Construction of index numbers: fixed and chain base, univariate and composite; Aggregative and average of relatives – simple and weighted; Tests of adequacy; Base shifting, splicing, deflating; Construction of Consumer price index. **SS**

12. (A) **Set Theory:** Definition of Set; Presentation of Sets; Different types of Sets- Null Set, Finite & Infinite Sets, Universal Set, Subset, Power Set etc.; Set operations; Laws of algebra of Sets. **SS**

(B) **Theory of Probability:** Theory of Probability; Approaches to the calculation of probability; Calculation of event probabilities; Addition and multiplication laws of probability; Conditional probability; Expectation and variance of a random variable. **SS**

Session 2018-2019

B.Com (General)

Group 3 Paper II (General Elective) Fundamentals of Taxation Full Marks 100

Module I: (50 Marks)

5. a) Basic Concepts and Definitions under Income Tax Act, 1961: Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning. **JD**

b) Residential Status of an individual and Incidence of Tax **JD**

c) Fully Exempted income of an Individual **PN**

d) Agricultural Income: Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income. **PN**

6. Heads of Income and Provisions governing Heads of Income:

(a) Income from Salaries **PN**

(b) Income from House Property **JD**

(c) Profits and Gains from Business or Profession: Special emphasis on section 28, 32, 35, 35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B. **TKS**

(d) Capital Gain: Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, Taxability of Short Term Capital Gain and Long Term Capital Gain **TKS**

(e) Income from Other Sources (excluding Dividend): Basic concepts. **TKS**

7. Deductions from Gross Total Income: Basic concepts - deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80TTA, 80U. **PN**

8. Computation of Total Income and Tax Liability of an Individual.

Module 2 – 50 Marks

5. Pre-Assessment and Assessment Procedure of an Individual

a) Provision for Filing of Return: Due Date of Filing of Return, Relevant forms of Return, different Types of Returns, Return by whom to be Signed, E-Filing of Return, PAN, TAN. **JD**

b) Assessment of Income: Self Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147. **JD**

c) Advance Tax, Refund of Tax and Tax Clearance Certificate. **TKS**

d) Interest **TKS**

Interest u/s 234A, 234B, 234C, (simple problems)

e) TDS

TDS from Salary, Lottery, Horse racing, Interest on Securities. **TKS**

6. Central Sales Tax Act, 1956

Definitions: Dealer, Sale, Turnover, Sale Price, Sale or Purchase in course of inter State trade or Commerce, Sale or Purchase outside a State, Sale or Purchase in the course of Import or Export, Incidence and levy of tax, Exemption and Exclusion, determination of Turnover and tax payable, Registration of Dealer, Forms under CST. **TKS**

7. West Bengal Value Added Tax Act, 2003

Basic concepts, features, advantages and disadvantages of VAT, Rate of tax, Definitions: Business, Goods, Taxable Goods, Capital Goods, Dealer, Zero Rated Sales, Manufacturer, Input tax, Output tax, Input tax credit. Incidence and levy of tax, Determination of tax payable, Registration of dealer. **TKS**

8. Service Tax

Basic Concepts and General Principles; Charge of service tax including negative list of services; Point of taxation of services; Exemptions and Abatements; Valuation of taxable services; Invoicing for tax able services; Payment of service tax; Registration; Furnishing of returns. **TKS**

Group 3 Paper III (General Elective) Auditing, Business Mathematics and Statistics Full Marks 100 Module I: Auditing (50 Marks)

6. Introduction – Definition of Auditing, Standards on Auditing (Preliminary idea only), Objectives of Audit, Basic Principles Governing an Audit, Scope of Audit, Inherent limitations of Audit, Different types of Audit, Auditing and Investigation. Basic Concepts in Auditing - Auditor's Independence, Advantages of an independent Audit, Audit Evidence, Concept of Materiality, Concept of True and Fair. **PN**
7. Preparation for an Audit - Auditor's Engagement, Audit Process, Audit Techniques, Audit Planning, Audit Programme, Continuous and Final Audit, Audit Planning and Materiality, Audit Working Papers, Quality Control for Audit Work, Elements of Statistical Sampling, Audit Risk, Surprise Checks, Obtaining Certificate from Management. **PN**
8. Internal Control, Internal Check and Internal Audit - Concept of Internal Control, Internal Control and Management, Internal Control and the Auditor, Testing of Internal Control, Examination in Depth, Internal Check, Internal check and Auditor, Internal Audit, Relationship between the Statutory and the Internal Auditors, Internal Financial Control. **PN**
9. Vouching – Concept of Vouching; Vouching of- Cash Transactions, Payments, Receipts, Trading Transactions, Purchases, Sales; Verification of Bank Balance and Cash-in-Hand. **TKS**
10. Audit of Sole Proprietorship Concern and Partnership Firm. **TKS**

Module II: Business Mathematics and Statistics (50 Marks)Part

A- Mathematics (25 Marks):

5. (a) Variation **SS**
(b) Laws of Indices and Surds **SS**
6. (a) A.P. Series: Definition, Common difference, General term, A.M., Sum of first n terms of an A.P. **SS**
(b) G.P. Series: Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P. **SS**
7. Equations: Linear: simultaneous linear equations up to three variables. **DA**
8. Compound Interest & Annuities: Different types of interest rates; Concept of Present Value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds. **DA**

Part B- Statistics (25 Marks):

5. (A) **Introductory ideas:** Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties. **CB**
(B) **Diagrammatic representation:** Histogram, Frequency Polygon and Ogive. **CB**
6. **Different Measures of Central Tendency:** Common measures of central tendency – mean, median and mode; Partition values – quartiles, deciles, percentiles. **CB**
7. **Different Measures of Dispersion:** Common measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Measures of relative dispersion. **CB**
8. (A) **Correlation Analysis:** Scatter diagram; Pearson's co-efficient of correlation; Rank Correlation; **CB**
(C) **Regression Analysis:** Regression equations and estimation [Elementary level]. **CB**

Session 2018-2019

Group 1 Paper II (Common Paper)Business

Law

Full Marks 100

Module I: (50 Marks)

- 1. The Indian Contract Act, 1872-** Introduction, Offer and Acceptance, Consideration, Capacity of Parties, Consent Void and Voidable Agreements, Contingent and Quasi Contracts, Discharge of Contracts, Breach of Contract, Special Contracts. **TKS**
- 2. The Sale of Goods Act, 1930** –Introduction, Conditions and Warranties, Doctrine of Caveat Emptor and its Exceptions, Transfer of Ownership, Transfer of Title by Non-owners. **TKS**

3. The Negotiable Instruments Act, 1881- Definition, features; Promissory Note, Bill of Exchange and Cheque – essential elements; distinction between Promissory Note, Bill of Exchange and Cheque; types of cheques – modes of crossing cheques; inchoate stamped instrument; accommodation bill; fictitious bill; Endorsement – types of endorsement; Holder and Holder in Due Course: rights of holder in due course; Dishonour of Negotiable Instruments: modes of dishonour; consequences; notice of dishonour; Noting; Protest. **TKS**

4. Consumer Protection Act, 1986- Introduction: objective of the Act, definitions of complaint, consumer; consumer dispute, goods, services, etc.; Consumer Dispute Redressal Agencies: composition and jurisdiction of district forum, State Commission and National Commission; Manner of Lodging a Complaint: procedure of complaint. **TKS**

5 Information Technology Act, 2000- Definitions; Digital Signature: Object and Definite Clause of Access affixing digital signature; Legal recognition: Use of electronic records; Retention and Publication; Controller: Appointment; Powers and Functions; Penalty and Adjudication; **TKS**

Module II: (50 Marks)

9. Indian Partnership Act, 1932- Partnership: meaning - partner, firm and firm name; essential elements; true test of partnership; Types of Partner: partnership distinguished from co- ownership, company, club; partnership by estoppels or holding out; limited partnership; Registration of Partnership Firm and consequences of non-registration; Minor's Position in Partnership: Rights and Duties of the Partner: relation of partners with third parties; implied authority of a partner restrictions on the implied authority of a partner; Dissolution of Firms: meaning and grounds of dissolution. **JD**

10. The Limited Liability Partnership Act, 2008- Nature of Limited Liability Partnership, Incorporation of Limited Liability Partnership and Matters Incidental Thereto; Partners and their relations, Extent and Limitation of Liability of Limited Liability Partnership and Partners; Contribution, Financial Disclosures, Accounts & Audit, Winding up and Dissolution.

11. Companies Act, 2013- (i) Introduction –Definitions, features, concept of corporate veil, doctrine of lifting of corporate veil, Introduction of a new Companies Act 2013 replacing the Act of 1956. **SPC**

(ix) Types of Companies- Private company, public company, one person company, small company, dormant company, associate company, government company – differences between private and public company, conversion of private company into public company and vice-versa, conversion of one person company into private and public company; **SPC**

(x) Memorandum of Association- definition, contents, alteration, Doctrine of Ultra Vires, **Article of Association-** definition, contents, alteration, limitation to alteration, distinction: alteration of Memorandum and Articles of Association, legal effectiveness of Memorandum and Articles of Association, doctrine of Indoor Management; **SPC**

(xi) Prospectus- definition, types: abridged prospectus, Shelf prospectus, red- herring prospectus and contents, misstatement in a prospectus, liability for mis-statement in a prospectus. **SPC**

(xii) Formation of Company- promoters – legal status, duties, liabilities and remuneration; essential steps, procedure for registration and incorporation, certificate of incorporation and commencement of business; **SPC**

(xiii) Share Capital – definition of share, share capital and stock; kinds of share capital: **SPC**

equity share capital, sweat equity share; preference shares: types of preference shares, rules for issuing preference shares; allotment of shares, statutory provisions on allotment of shares; ESOP (Employees stock option scheme); rights issue; bonus share; buy back of shares; share certificate and share warrants - distinction; transfer and transmission of shares; debenture- classification;

SPC

(xiv) **Director-** definition, number, classification, director identification number (DIN), qualification, disqualification, appointment, legal position; number of directorship ; removal, resignation of director, ; duties, liabilities, powers of board of directors; Managing Director – qualification, appointment;

SPC

(xv) **Company Meetings** - quorum, resolution, minutes.

SPC

Group 1 Paper III (Common Paper)

Business Management

Full Marks 100

Module I: (50 Marks)

11. Introduction: concept, nature & scope, functions and significance of management. Is management an Art or a Science or both? **PN**

12. Different Schools of Management Thoughts – Contribution of Taylor, Fayol and Follett. Modern Management Theory- Quantitative or Mathematical Approach, Systems Approach and Contingency Approach. **JD**

13. Planning: concepts, importance, elements, types and steps in planning; Decision-Making: concepts and steps in decision-making; Forecasting: concepts, importance and methods of forecasting. **PN**

14. Organization: meaning, features, importance and steps in organization; Organization structure and its forms; Delegation of Authority; Line and Staff authority. **PN**

15. Motivation: meaning, factors and importance of motivation; Theories – Maslow and Herzberg. **PN**

Module II: (50 Marks)

16. Leadership: meaning and importance; **Leadership styles** Laissez-Faire, Autocratic, Participative, Transactional and Transformational; **Leadership Models** – Tannenbaum and Schmidt, Blake and Mouton. **SPC**

17. Coordination: concept, importance, principles and techniques. **SPC**

18. Control: concept, importance, types and steps; Features of a good control system; Techniques of control. **SPC**

19. Communication: meaning, process, importance and methods; Barriers to communication. **JD**

20. Functional Areas of Management: Financial Management, Marketing Management, Human Resource Management and Operations Management - Concepts, Features, Scope and Importance. **PN**

PN

Group 2 Paper II (Common Paper) Indian Financial System

Full Marks 100

Module I: (50 Marks)

3. Financial System: Meaning, Significance & Components; Structure of Indian Financial System **PN**
4. Reserve Bank of India:
- (a) Organisation, Management, Functions- Credit creation and control **SPC**
 - (b) Monetary Policy- Objective, Different ways of RBI, impediments to the effectiveness of monetary policy. **PN**
- 3.(a) Commercial Banks: Importance, Objectives and Functions. **SPC**
- (b) Development Banks: Concepts, objectives & functions of National & State level Development Banks (IFCI, IDBI, ICICI, NABARD, SIDCs). **PN**
6. Insurance Sector- LIC & GIC- Objectives and Functions. **PN**
7. Financial Regulatory Bodies -
- (a) Fundamental ideas about various regulatory bodies (SEBI, Company Law Board, RBI, Insurance Regulatory body, Insurance Regulatory Development Authority (IRDA), Ministry of Finance. **PN**
 - (b) SEBI- Structure, Role in Investors' protection **PN**

Module II: (50 Marks)

6. Financial Market: An overview of Financial Market in India. **PN**
7. New Financial Instruments: Commercial Paper, Treasury Bill, Certificate of Deposit-Concepts, features and advantages. **JD**
8. Money Market: Concept, Structure of Indian money market, basic idea of its different components **JD**
9. Capital Market: Primary Market and secondary market- concept & interrelation, Function and role of Stock exchange (Including the basic ideas of types of stock market operation) **JD**
10. Financial Services: Fundamental idea of leasing, hire purchase, Merchant Banking, Securitization, factoring **PN**

Group 2 Paper III (Common Paper) Accounting for Local Bodies and Project Preparation

Full Marks 100

Module I: Accounting for Local Bodies (50 Marks)

7. Introduction- Concept of local bodies; Salient features of 73rd Amendment of the Constitution in 1992, Article 243J- Audit of Accounts. **PN**
8. Provisions related to Accounts in the West Bengal Panchayat Act, 1973. Some important provisions of – (a) West Bengal Panchayat (Zilla Parishad and Panchayat Samiti) Accounts and Finance Rules 2003, (b) West Bengal Panchayat (Gram Panchayat Accounts, Audit and Budget)

9. Financial Statements of Municipalities- Balance Sheet, Income & Expenditure Account, Statement of Cash Flows, Receipts and Payments Account, and Notes to Accounts (Refer National Municipal Accounts Manual, 2004);

Important contents of the Accounting Manual for Urban Local Bodies, 2006, of the Govt. of West Bengal: **Part 1: Introduction to Double Entry Accrual- based Accounting** Para 4- New Accounting System (i.e. double entry accrual system of accounting); Para 6- Accounting Documents; Para 7- Financial Statements; Para 9- Fundamental Accounting Assumptions. **Part 5: Forms and Formats.**

SPC

10. Accounting Standards- List of *Accounting Standards for Local Bodies* issued by the Institute of Chartered Accountants of India.

PN

11. Financial Statements of PRIs (Panchayat Raj Institutions) and Municipalities- problem solutions; Software for Preparation of Financial Statements.

PN

Module II: Project Preparation (50 marks - Report 30 marks & Viva-Voce 20 marks)
PN, JD, SPC, TKS, AKB

Examples of a few broad areas of Project (List is indicative, not exhaustive)

- Accounting and Finance of Local Bodies
- Any topic concerning local economic /entrepreneurial issues / new business proposal
- Agro based industry / cottage industry
- Commercial Crops including Horticulture & Sericulture
- Micro-finance/ Financial Inclusion
- Micro-insurance
- Small Savings
- Rural and Agricultural Banking
- Preservation & Storage of Agricultural Products
- Eco-tourism
- Hotels, Restaurants, Eateries
- Digital Service Providers- Photocopy, Mobile, Internet, Cable etc.
- Medical Service Providers
- Educational Service Providers
- Construction industry
- Small Traders/ Street Vendors/ Hawkers including Railway Hawkers
- Rural and Agricultural workers
- Role of Micro Small and Medium Enterprises
- Accounting Standards for Local Bodies.
- IFRS for SMEs
- Indian Accounting Standards (Rule of 2006, as amended in 2016)
- Schedule III of Companies Act, 2013
- Auditing Standards
- E-Commerce & M-commerce

- Credit Rating / Risk Management
- Frauds/ White Collar Frauds
- Subprime Meltdown and its after effect with case study from Indian Industry.
- Carbon Credit
- Value Added Tax (VAT) / Goods and Service Tax (GST)
- Public Sector Undertakings and Indian Economic Development
- Corporate Social Responsibilities
- Corporate Governance
- Financial Sector Reforms
- On-line Banking
- NPA Management
- Business Process Outsourcing
- Capital Market
- Environmental Accounting/ Environmental Management
- Financial Statement Analysis / Performance Analysis
- Working Capital Management
- Mergers & Acquisitions
- Study on Aviation Sector in India.
- Venture Capital
- Equity Linked Savings Scheme
- Insurance Industry in India
- Analysis of Mutual Funds
- Commercialization of Sports in India.
- Marketing Strategy of products
- Marketing and Promotional Strategies
- Market Research
- Brand Repositioning
- Customer Relationship Management
- Sales & Distribution Management
- Customer Awareness
- Industrial Marketing Vs. Consumer
- Study of Consumer Behaviour
- Packaging of Products
- After Sales Service and Customer Satisfaction
- Effectiveness of Advertising
- Direct Marketing & Networking

Guidelines for Project Writing: As Per Annexure

Annexure

Guidelines for Project Writing

Each of the students has to undertake a Project individually under the supervision of a teacher and to submit the same following the guidelines stated below.

- Language of Project Report and Viva-Voce Examination may be English or Bengali. The Project Report must be typed and spirally bounded.
- Failure to submit the Project Report or failure to appear at the Viva-voce Examination will be treated as –Absentl in the Examination. He /she has to submit the Project Report and appear at the Viva-Voce Examination in the subsequent years (within the time period as per University Rules).
- No marks will be allotted on the Project Report unless a candidate appears at the Viva-

Voce Examination. Similarly, no marks will be allotted on Viva-Voce Examination unless a candidate submits his/her Project Report.

- Evaluation of the Project Work to be done jointly by one internal expert and one external expert with equal weightage, i.e., average marks of the internal and external experts will be allotted to the candidate.
- A candidate has to qualify in the Project Work separately, obtaining a minimum marks of 20 (Project Report and Viva-Voce taken together) in paper III of Group 2.
- Marking Scheme for Project Report and Viva-Voce Examination:

Project Report (30 marks)

Chapter 1: Introduction – 5 marks

Chapter 2: Conceptual Framework/ National/International Scenario – 5 marks

Chapter 3: Presentation, Analysis & Findings -- 15 marks

Chapter 4: Conclusion & Recommendations -- 5 marks

Viva-Voce (20 marks)

In course of Viva-Voce Examination, the question may be asked in the following areas:

- Importance / relevance of the Study, Objective of the Study, Methodology of the Study / Mode of Enquiry – 5 marks
- Ability to explain the analysis, findings, concluding observations, recommendation, limitations of the Study—10 marks
- Overall Impression (including Communication Skill) -- 5 marks

THE COMPONENTS OF A PROJECT REPORT

The outcome of Project Work is the Project Report. A project report should have the following components:

7) Cover Page: This should contain the title of the project proposal, to whom it is submitted, for which degree, the name of the author, name of the supervisor, year of submission of the project work, name of the University.

8) Acknowledgement: Various organizations and individuals who might have provided assistance /co-operation during the process of carrying out the study.

9) Table of Content: Page-wise listing of the main contents in the report, i.e., different Chapters and its main Sections along with their page numbers.

10) Body of the Report: The body of the report should have these four logical divisions

a) **Introduction:** This will cover the background, rationale/ need / justification, brief review of literature, objectives, methodology (the area of the study, sample, type of study, tools for data collection, and method of analysis), Limitations of the Study, and Chapter Planning.

b) **Conceptual Framework / National and International Scenario:** (relating to the topic of the Project).

c) **Presentation of Data, Analysis and Findings:** (using the tools and techniques mentioned in the methodology).

d) **Conclusion and Recommendations:** In this section, the concluding observations based on the main findings and suggestions are to be provided.

11) Bibliography or References: This section will include the list of books and articles which have been used in the project work, and in writing a project report.

12) Annexure: Questionnaire (if any), relevant reports, etc.

(The main text of the Project should normally be in the range of 5000 words. However, there may be annexure in addition to the main text)

THE STEPS OF PROJECT WORK

STEP I: Selection of the topic for the project by taking following points into consideration:

- Suitability of the topic.
- Relevance of the topic
- Time available at the disposal.
- Feasibility of data collection within the given time limit.
- Challenges involved in the data collection (time & cost involved in the data collection, possibility of getting responses, etc.)

STEP II: Finalisation of the Topic and preparation of Project Proposal in consultation with the Supervisor.

STEP III: Collection of information and data relating to the topic and analysis of the same.

STEP IV: Writing the report dividing it into suitable chapters, viz.,

Chapter 1: Introduction,

Chapter 2: Conceptual Framework / National & International Scenario,

Chapter 3: Analysis & Findings

Chapter 4: Conclusion and Recommendations.

Annexures,

References / Bibliography

STEP V: The following documents are to be attached with the Final Project Report.

4) Approval letter from the supervisor (Annexure-IA)

5) Student's declaration (Annexure-IB)

6) Certificate from the Competent Authority of the Organisation / Institution, if the student undertakes the Project Work in any Organisation / Institution.

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Paper H.V. (Honours)

Corporate Accounting & Reporting

Full Marks 100

MODULE I – 50 Marks

1. Framework of Corporate Accounting & Reporting: Meaning of Company and its Classification; Books of Accounts; Maintenance of Books of Accounts; Financial Year; Financial Statements – Meaning, Forms & Contents; Concept of True and Fair View, Authentication of Financial Statements; Filing of Financial Statements. **PN**

2. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture, Reissue and Buy-Back of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures, Employees' Stock Option Scheme (ESOS) and Employees' Stock Purchase Scheme (ESPS); Redemption of Preference Shares and Debentures. **TKS**

3. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures – treatment of brokerage, cum & ex-interest and cum & ex-dividend transfer of securities; Valuation of Investment as per Accounting Standard AS 13. **JD**

4. Final Accounts of Companies: Preparation of Statement of Profit & Loss and Balance Sheet as per Schedule III to the Companies Act, 2013. **PN**

5. Accounting of Limited Liability Partnership- **JD**
MODULE II – 50 Marks

12. Business Acquisition and Conversion of Partnership Firm into Limited Company: Amalgamation of Partnership Firms - accounting in the books of transferor and transferee firm; Conversion of Partnership into Limited Company –with the same or different set of books; Profit or Loss Prior to Incorporation - Accounting for Acquisition of Business.

PN

Reconstruction of Companies: Meaning of Internal and External Reconstruction of companies, Concept of and accounting for Amalgamation as per Accounting Standard - 14 (issued by ICAI, excluding inter-company holdings); Accounting for Internal Reconstruction (excluding preparation of scheme of reconstruction). **TKS**

8. Valuation: Valuation of Goodwill and Shares. **JD**

9. Holding Company: Preparation of Consolidated Balance Sheet of one subsidiary company (excluding problems on chain and cross holding). **PN**

10. Financial Statement Analysis **SPC**

(a) Ratio Analysis: Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios–liquidity, solvency, activity, profitability, capital structure, managerial efficiency; Preparation of financial statement and statement of proprietor’s fund from relevant ratios.

(b) Funds Flow Statement: Concepts of fund – Meaning, nature, importance and limitations of funds flow statement – Various sources and uses of fund – Preparation of funds flow statement.

(c) Cash Flow Statement: Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. cash flow statement – Various sources and uses of cash – Preparation of cash flow statement.

(d) Common Size Statements: Meaning, Objectives and Preparation of Common Size Statements.

Note: All topics are to be studied with reference to the Companies Act, 2013 and relevant Accounting Standards in force.

Paper H.VI. (Honours)
Accounting Standards & Auditing
Full Marks 100

Module I: Accounting Standard (50 Marks)

11. Accounting Standards and Setting Process: Concept of Accounting Standards; Role of the Institute of Chartered Accountants of India in standard setting process; National Financial Reporting Authority and its role in framing Accounting Standards for companies; List of Accounting Standards contained in Companies (Accounting Standards) Rule 2006.

PN

12. Accounting Standard 1 (Disclosure of Accounting Policies) and Accounting Standard 2 (Inventories): All provisions of Accounting Standard 1 and 2. **JD**

13. Accounting Standard 9 (Revenue Recognition) & Accounting Standard 29 (Provisions, Contingent Liabilities and Contingent. Assets): Definitions and Main Standards.

JD

14. Accounting Standard 10 (Property, Plant & Equipment): Problems based on AS 10. **PN**

15. An Overview of International Financial Reporting Standards/ International Accounting Standards (IFRSs/ IASs) and Companies (Indian Accounting Standards) Rules 2015.

JD

Module II: Auditing (50 Marks)

16. Introduction- Definition of Audit, Difference between audit and assurance, concept and objectives of independent financial audit, Types of audit- Internal audit, Independent financial audit, Cost audit, Tax audit, Management audit, Secretarial audit. Types of tests- Substantive test and Compliance test. Concept of 'true & fair' and 'materiality'.

SPC

17. Internal Control – Concept of- Internal check, Internal control, and Internal financial control. Importance of Internal check & Internal control for the purpose of audit. Questionnaire for verification of Internal control. Provision of the Companies Act 2013 in relation to Internal financial controls- (i) Explanation- Section 134(5)(e); (ii) Reporting requirement- 143(3)(i).

TKS

18. Vouching & Verification (i.e. Substantive Test)-Vouching- Meaning, Objectives- Vouching of different items (Receipts and Payments related). Verification – Concept & Objectives; Verification of Share Capital, Loans (secured and unsecured), Fixed assets (Building, Plant and Machinery), Loans and Advances, Investment, Goodwill, Copy Right, Patent Right, Inventories, Debtors, Creditors.

SPC

19. Audit of Limited Companies- Appointment (section 139), removal & resignation of auditors (section 140). Eligibility, Qualifications and disqualifications of auditors (section 141). Remuneration of auditors (section 142). Mandatory compliance of Auditing Standards [Section 143 (9) & (10)].

TKS

20. Auditors' Report – Definition; Distinction between Report and Certificate; Types of Opinion- (i) Unmodified or Clean, (ii) Qualified, (iii) Negative (iv) Disclaimer. Format of audit report (SA 700, SA 705 & SA 706).

TKS

Paper H.VII. (Honours)

Financial Management and Capital Market

Full Marks 100

Module I

11. Fundamentals of Financial Management: Definition, Concept, scope, objective, and importance of financial management. Objectives of the firm – profit maximization and wealth maximization. Time value of money.

PN

12. Sources of Finance and Cost of Capital: Different sources of finance - long term and short term sources. Cost of capital - concept, relevance of cost of capital, specific costs and weighted average cost, rationale of after tax weighted average cost of capital, marginal cost of capital.

PN

13. Working Capital and Its Management: Meaning, concept, composition, nature, types, of working capital. Determining factors of working capital. Working Capital Cycle Estimation of working capital requirements (excluding problems on extra shift working capital and working capital policy). Working Capital Management – Importance of working capital management, Working capital financing – Long-term, medium and short-term.

JD

14. Capital Structure and Leverage: Meaning, concept, importance of capital structure. Determining factors of capital structure. Concept of optimum capital structure. Various capital structure theories (NI, NOI) , Leverage – Concept, types and importance. Financial, operating and combined leverages, Trading on Equity, EBIT-EPS Analysis. Business Risk and Financial Risk.

SPC

15. Capital Budgeting – Concept and importance of capital budgeting decisions. Different project evaluation techniques - ARR, Pay Back Period, NPV, IRR, PI. **SPC**

Module II

16. Dividend Decision: Meaning, concept and significance. Determinant of dividend 41

policies. Analytical study of dividend policy theories – Walter’s Model, Gordon’s Model and MM Theory. **JD**

17. Basic Theoretical Framework: Concept and meaning of Capital Market – structure constituents and characteristics of capital market in India – Growth and Importance – Capital Market Efficiency . **JD**

18. New Issue Market and Secondary Market: Financial Instruments in Capital Market – Trading Mechanism of stock exchange – IPO Grading, Book Building Method, Private Placement, Dematerialisation. Credit Rating: Meaning – process of rating of financial instruments – Rating methodology – rating symbols by different rating agencies. **JD**

19. Depository Services: Role and functions of depository services – Advantages of depository system – NSDL and CDSL. **PN**

20. Recent Trends in Capital Market: Mutual Fund: Concept – Concept, Designing and marketing of Mutual Schemes – Types of mutual funds – NAV – NAV calculation, Regulatory Regime of mutual fund. Systematic Investment Plan (SIP) – Concept, importance and relevance. **SPC**

Paper H.VIII (Honours)

Honours Practical on Accounting & Taxation and Computer Applications

Full Marks 100

Module I: Written Practical on Accounting & Taxation

(50 Marks, including internal assessment 15 marks)

5. Preparation of different types of accounting vouchers/ documents- Debit Voucher, Cash Memo, Purchase Order, Challan, Invoice, Money Receipts, Debit Note, Credit Note, Goods Receipt Note, etc. **SPC**

6. (A) Maintenance of different types of Journals & Ledgers. Preparation of Trial Balance. (B) Preparation of Bank Reconciliation Statement based on Bank Statements/ Pass Book and cash book figures. (B) Preparation of Bank Reconciliation Statement based on Bank Statements/ Pass Book and cash book figures. (like real life situation). **PN**

7. Application for PAN (Form No 49A), TAN (Form No 49B). **TKS**

8. Computation of Income under Income Tax, computation of tax, filling up of Return Forms (ITR 1). **TKS**

Module II: Computer Applications

(50 Marks, including internal assessment 15 marks)

5. Tally (latest version)- Creation of Company, Creation of Ledger Heads, Creation of Stock Items. Entries in six types of accounting journals- Receipt, Payment, Contra, Purchase, Sales, Journal. (including VAT /GST at the time of Purchase/Sales, but excluding entries for manufacture of goods). Alteration/ deletion of Ledger Heads, Stock Items and Entries. **JD**

6. Preparation of Bank Reconciliation Statement in Tally. **JD**

7. Excel– Data entry and corrections, Insertion of Row & Column, Deletion of Row & Column, Change of Column width, Summation of numbers in a Column / Row, Sorting of data, Linking of cells, Formula copy, Freezing of Column / Row. **JD**

8. Drawing of Charts in Excel- Bar Chart, Column Chart, Pie Chart & Line Chart. Editing of Charts. **JD**

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B.Com (General) Part-III
Group 3 Paper IV (General Elective)
Advanced Accounting
Full Marks 100

MODULE I – 50 Marks

11. Accounting Theory and Accounting Standards: Concept of capital and capital maintenance, relation between capital and income, Limitations of Historic Cost accounting; Accounting Standards (ASs): AS-1, AS-2, AS-9 and AS-10 (Definitions and Main Provisions); An Overview of Indian Accounting Standards (Ind ASs) and International Financial Reporting Standards (IFRSs). **JD**
12. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture, Reissue and Buy-Back of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures, Employees' Stock Option Scheme (ESOS) and Employees' Stock Purchase Scheme (ESPS). **PN**
13. Redemption of Preference Shares and Debentures (Simple Problems) **JD**
14. Profit or Loss Prior to Incorporation **PN**
15. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures –treatment of brokerage, cum & ex-interest and cum & ex-dividend transfer of securities; Valuation of Investment as per Accounting Standard AS 13. **JD**

MODULE II – 50 Marks

16. Final Accounts of Companies: Preparation and Presentation of Statement of Profit & Loss and Balance Sheet as per Schedule III of the Companies Act, 2013. **PN**
17. Ratio Analysis: Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios–liquidity, solvency, activity, profitability, capital structure, managerial efficiency. **JD**
18. (a) Funds Flow Statement: Concepts of fund – Meaning, nature, importance and limitations of funds flow statement – Various sources and uses of fund – Preparation of funds flow statement. **PN**
- (b) Cash Flow Statement: Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. cash flow statement – Various sources and uses of cash – Preparation of cash flow statement. **JD**
19. Amalgamation and Reconstruction of Companies: Different types of Amalgamation and their accounting treatment as per Accounting Standard - 14 issued by ICAI (Simple problem excluding inter-company holdings); Internal Reconstruction: Concepts and accounting treatment excluding scheme of reconstruction (Simple Type). **PN**
20. Valuation: Valuation of Goodwill and Shares (Simple Type). **PN**

Note: All topics are to be studied with reference to the Companies Act, 2013 and relevant Accounting Standards in force.

Group 3 Paper V (General Elective)
Fundamentals of Cost & Management Accounting
Full Marks 100 (50+50)

Module 1: (50 Marks)

6. Introduction- Meanings and Concepts of Cost, Costing, Cost Accounting and Cost Accountancy- Objectives and Functions of Cost Accounting - Steps for installation of Cost Accounting System- Meanings & Concepts of Cost Unit, Cost Centre, Service Centre, Profit Centre, Product Costs, Period Costs, Conversion Costs. Definition, Concept, Scope, Function and Limitations of Management Accounting- Management

Accounting Vs Financial Accounting- Management Accounting Vs Cost Accounting- Relationship with Financial Accounting & Management Accounting- Position of Management Accountant in the Organization. **SPC**

7. Elements of Cost & Cost Sheet- Elements of Cost- Direct and Indirect Material, Direct and Indirect Labour, Direct and Indirect Expenses; Indirect Cost (or Overhead)- Factory Overhead, Administrative Overhead, and Selling & Distribution Overhead- Preparation of Cost Sheet. **TKS**

8. Material Costs - Importance of Material Cost Control- Purchase Procedure- Stores Control-Types of Stores- Stores Records - Perpetual Inventory System- Stock Levels (Minimum Level, Maximum Level, Ordering or Reordering Level, Danger Level) - Bin Card & Stores Ledger- ABC Analysis- EOQ: Concept & Application- Methods of Pricing Material Issues (FIFO, LIFO & Simple Average Method). **SPC**

9. Labour Costs- Importance of Labour Cost Control- Time Keeping & Time Booking (Meaning, Concept, Objectives, Advantages, Limitations & Differences)- Idle Time (Causes and treatment in Cost Accounting)- Over Time- Labour Turnover (Causes and treatment of labour turnover)- Items of Labour Bonus Plan. **SPC**

10. Overhead Costs- Definition and Classification (Element, Function and Behaviour wise)- Meaning & Concept of Overhead Allocation and Apportionment and its differences- Distribution to Production and Service Departments- Absorption of Overheads (Meaning & Concept)- Methods of Absorption (Hourly Rate Methods: Labour Hour Rate & Machine Hour Rate)- Under/Over Absorption (Meaning, Concept & Reasons for Under/Over Recovery, Treatment of Under/Over-absorbed Overhead). **TKS**

TKS

Module 2: (50 Marks)

6. Contract Costing- Definition - Costing Procedure - Profit on incomplete contracts - Cost plus contract - Escalation Clause - Retention Money - Preparation of Contract Accounts (Introductory Level). **SPC**

7. Process Costing- Definition, Features, Advantages & Limitations of Process Costing - Process Losses -Preparation of Process Accounts (including Normal & Abnormal Loss, Abnormal Gain, Value of Scrap): Simple Problems Only - Equivalent Production (Meaning & Concept) - By-products & Joint products (Meaning and Distinction). **SPC**

8. Marginal Costing and Cost Volume Profit Analysis- Concepts and Definitions of Marginal Cost, Marginal Costing & Contribution -Merits and Demerits of Marginal Costing- Distinction between Absorption Costing & Marginal Costing- Marginal Cost Equation- Techniques of Marginal Costing. Meaning & Importance of Cost-Volume-Profit Analysis- BEP Analysis- Break Even Chart- P/V Ratio- Cost-Volume-Profit Relationship- Profit/Volume Chart- Margin of Safety- Angle of Incidence- Decision-making with the help of Marginal Costing (elementary level). **SPC**

9. Standard Costing- Meaning of Standard Cost- Difference between Standard Cost and Estimated Cost- Meaning, Advantages& Limitations of Standard Costing- Standard Costing Vs Budgetary Control- Computation and Analysis of Variances (Material & Labour): Simple Problems Only. **TKS**

10. Budget and Budgetary Control- Definitions, Concepts, Objectives, Advantages & Limitations of Budget & Budgetary Control- Features of an effective Budget- Types of Budget- Steps in Budgeting- Principal Budget Factors- Budget Committee- Budget Manual- Establishing a system of Budgetary Control- Basic Concept of Zero-Base Budgeting (ZBB). **TKS**

Group 3 Paper VI (General Elective)

General Practical on Accounting & Taxation and Computer Applications

Full Marks 100 (50+50)

Module I: Written Practical on Accounting & Taxation

(50 Marks, including internal assessment 15 marks)

5. Preparation of different types of accounting vouchers/ documents- Debit Voucher, Cash Memo, Purchase Order, Challan, Invoice, Money Receipts, Debit Note, Credit Note, Goods Receipt Note, etc. **SPC**
6. (A) Maintenance of different types of Journals & Ledgers. Preparation of Trial Balance. (like real life situation). **PN**
7. Application for PAN (Form No 49A), TAN (Form No 49B). **TKS**
8. Computation of Income under Income Tax, computation of tax, filling up of Return Forms (ITR 1). **TKS**

Module II: Computer Applications

(50 Marks, including internal assessment 15 marks)

4. Tally (latest version)- Creation of Company, Creation of Ledger Heads, Creation of Stock Items. Entries in six types of accounting journals- Receipt, Payment, Contra, Purchase, Sales, Journal. (including VAT /GST at the time of Purchase/Sales, but excluding entries for manufacture of goods). Alteration/ deletion of Ledger Heads, and Entries. **JD**
5. Excel – Data entry and corrections, Insertion of Row & Column, Deletion of Row & Column, Change of Column width, Summation of numbers in a Column / Row, Sorting of data, Linking of cells. **JD**
6. Drawing of Charts in Excel- Bar Chart, Column Chart, Pie Chart & Line Chart. **JD**

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Paper H.V. (Honours)

Corporate Accounting & Reporting

Full Marks 100

MODULE I – 50 Marks

1. Framework of Corporate Accounting & Reporting: Meaning of Company and its Classification; Books of Accounts; Maintenance of Books of Accounts; Financial Year; Financial Statements – Meaning, Forms & Contents; Concept of True and Fair View, Authentication of Financial Statements; Filing of Financial Statements. **PN**
2. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture, Reissue and Buy-Back of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures, Employees' Stock Option Scheme (ESOS) and Employees' Stock Purchase Scheme (ESPS); Redemption of Preference Shares and Debentures. **TKS**
3. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures –treatment of brokerage, cum & ex-interest and cum & ex-dividend transfer of securities; Valuation of Investment as per Accounting Standard AS 13. **JD**

4. Final Accounts of Companies: Preparation of Statement of Profit & Loss and Balance Sheet as per Schedule III to the Companies Act, 2013. **PN**

5. Accounting of Limited Liability Partnership- **JD**
MODULE II – 50 Marks

13. Business Acquisition and Conversion of Partnership Firm into Limited Company: Amalgamation of Partnership Firms - accounting in the books of transferor and transferee firm; Conversion of Partnership into Limited Company –with the same or different set of books; Profit or Loss Prior to Incorporation - Accounting for Acquisition of Business.

PN

Reconstruction of Companies: Meaning of Internal and External Reconstruction of companies, Concept of and accounting for Amalgamation as per Accounting Standard - 14 (issued by ICAI, excluding inter-company holdings); Accounting for Internal Reconstruction (excluding preparation of scheme of reconstruction). **TKS**

8. Valuation: Valuation of Goodwill and Shares. **JD**

9. Holding Company: Preparation of Consolidated Balance Sheet of one subsidiary company (excluding problems on chain and cross holding). **PN**

10. Financial Statement Analysis **SPC**

(a) Ratio Analysis: Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios–liquidity, solvency, activity, profitability, capital structure, managerial efficiency; Preparation of financial statement and statement of proprietor’s fund from relevant ratios.

(b) Funds Flow Statement: Concepts of fund – Meaning, nature, importance and limitations of funds flow statement – Various sources and uses of fund – Preparation of funds flow statement.

(c) Cash Flow Statement: Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. cash flow statement – Various sources and uses of cash – Preparation of cash flow statement.

(d) Common Size Statements: Meaning, Objectives and Preparation of Common Size Statements.

Note: All topics are to be studied with reference to the Companies Act, 2013 and relevant Accounting Standards in force.

Paper H.VI. (Honours)
Accounting Standards & Auditing
Full Marks 100

Module I: Accounting Standard (50 Marks)

21. Accounting Standards and Setting Process: Concept of Accounting Standards; Role of the Institute of Chartered Accountants of India in standard setting process; National Financial Reporting Authority and its role in framing Accounting Standards for companies; List of Accounting Standards contained in Companies (Accounting Standards) Rule 2006.

PN

22. Accounting Standard 1 (Disclosure of Accounting Policies) and Accounting Standard 2 (Inventories): All provisions of Accounting Standard 1 and 2. **JD**

23. Accounting Standard 9 (Revenue Recognition) & Accounting Standard 29 (Provisions, Contingent Liabilities and Contingent. Assets): Definitions and Main Standards.

JD

24. Accounting Standard 10 (Property, Plant & Equipment): Problems based on AS 10. **PN**

25. An Overview of International Financial Reporting Standards/ International Accounting Standards (IFRSs/ IASs) and Companies (Indian Accounting Standards) Rules 2015.

JD

Module II: Auditing (50 Marks)

26. Introduction- Definition of Audit, Difference between audit and assurance, concept and objectives of independent financial audit, Types of audit- Internal audit, Independent financial audit, Cost audit, Tax audit, Management audit, Secretarial audit. Types of tests- Substantive test and Compliance test. Concept of 'true & fair' and 'materiality'.

SPC

27. Internal Control – Concept of- Internal check, Internal control, and Internal financial control. Importance of Internal check & Internal control for the purpose of audit. Questionnaire for verification of Internal control. Provision of the Companies Act 2013 in relation to Internal financial controls- (i) Explanation- Section 134(5)(e); (ii) Reporting requirement- 143(3)(i).

TKS

28. Vouching & Verification (i.e. Substantive Test)-Vouching- Meaning, Objectives- Vouching of different items (Receipts and Payments related). Verification – Concept & Objectives; Verification of Share Capital, Loans (secured and unsecured), Fixed assets (Building, Plant and Machinery), Loans and Advances, Investment, Goodwill, Copy Right, Patent Right, Inventories, Debtors, Creditors.

SPC

29. Audit of Limited Companies- Appointment (section 139), removal & resignation of auditors (section 140). Eligibility, Qualifications and disqualifications of auditors (section 141). Remuneration of auditors (section 142). Mandatory compliance of Auditing Standards [Section 143 (9) & (10)].

TKS

30. Auditors' Report – Definition; Distinction between Report and Certificate; Types of Opinion- (i) Unmodified or Clean, (ii) Qualified, (iii) Negative (iv) Disclaimer. Format of audit report (SA 700, SA 705 & SA 706).

TKS

Paper H.VII. (Honours)

Financial Management and Capital Market

Full Marks 100

Module I

21. Fundamentals of Financial Management: Definition, Concept, scope, objective, and important of financial management. Objectives of the firm – profit maximization and wealth maximization. Time value of money.

PN

22. Sources of Finance and Cost of Capital: Different sources of finance - long term and short term sources. Cost of capital - concept, relevance of cost of capital, specific costs and weighted average cost, rationale of after tax weighted average cost of capital, marginal cost of capital.

PN

23. Working Capital and Its Management: Meaning, concept, composition, nature, types, of working capital. Determining factors of working capital. Working Capital Cycle Estimation of working capital requirements (excluding problems on extra shift working capital and working capital policy). Working Capital Management – Importance of working capital management, Working capital financing – Long-term, medium and short-term.

JD

24. Capital Structure and Leverage: Meaning, concept, importance of capital structure. Determining factors of capital structure. Concept of optimum capital structure. Various capital structure theories (NI, NOI) , Leverage – Concept, types and importance. Financial, operating and combined leverages, Trading on Equity, EBIT-EPS Analysis. Business Risk and Financial Risk.

SPC

25. Capital Budgeting – Concept and importance of capital budgeting decisions. Different project evaluation techniques - ARR, Pay Back Period, NPV, IRR, PI.

SPC

Module II

26. Dividend Decision: Meaning, concept and significance. Determinant of dividend 47

policies. Analytical study of dividend policy theories – Walter’s Model, Gordon’s Model and MM Theory. **JD**

27. Basic Theoretical Framework: Concept and meaning of Capital Market – structure constituents and characteristics of capital market in India – Growth and Importance – Capital Market Efficiency . **JD**

28. New Issue Market and Secondary Market: Financial Instruments in Capital Market – Trading Mechanism of stock exchange – IPO Grading, Book Building Method, Private Placement, Dematerialisation. Credit Rating: Meaning – process of rating of financial instruments – Rating methodology – rating symbols by different rating agencies. **JD**

29. Depository Services: Role and functions of depository services – Advantages of depository system – NSDL and CDSL. **PN**

30. Recent Trends in Capital Market: Mutual Fund: Concept – Concept, Designing and marketing of Mutual Schemes – Types of mutual funds – NAV – NAV calculation, Regulatory Regime of mutual fund. Systematic Investment Plan (SIP) – Concept, importance and relevance. **SPC**

Paper H.VIII (Honours)

Honours Practical on Accounting & Taxation and Computer Applications

Full Marks 100

Module I: Written Practical on Accounting & Taxation

(50 Marks, including internal assessment 15 marks)

9. Preparation of different types of accounting vouchers/ documents- Debit Voucher, Cash Memo, Purchase Order, Challan, Invoice, Money Receipts, Debit Note, Credit Note, Goods Receipt Note, etc. **SPC**

10. (A) Maintenance of different types of Journals & Ledgers. Preparation of Trial Balance. (B) Preparation of Bank Reconciliation Statement based on Bank Statements/ Pass Book and cash book figures. (B) Preparation of Bank Reconciliation Statement based on Bank Statements/ Pass Book and cash book figures. (like real life situation). **PN**

11. Application for PAN (Form No 49A), TAN (Form No 49B). **TKS**

12. Computation of Income under Income Tax, computation of tax, filling up of Return Forms (ITR 1). **TKS**

Module II: Computer Applications

(50 Marks, including internal assessment 15 marks)

9. Tally (latest version)- Creation of Company, Creation of Ledger Heads, Creation of Stock Items. Entries in six types of accounting journals- Receipt, Payment, Contra, Purchase, Sales, Journal. (including VAT /GST at the time of Purchase/Sales, but excluding entries for manufacture of goods). Alteration/ deletion of Ledger Heads, Stock Items and Entries. **JD**

10. Preparation of Bank Reconciliation Statement in Tally. **JD**

11. Excel– Data entry and corrections, Insertion of Row & Column, Deletion of Row & Column, Change of Column width, Summation of numbers in a Column / Row, Sorting of data, Linking of cells, Formula copy, Freezing of Column / Row. **JD**

12. Drawing of Charts in Excel- Bar Chart, Column Chart, Pie Chart & Line Chart. Editing of Charts. **JD**

Session 2018-2019

B.Com (General) Part-III
Group 3 Paper IV (General Elective)
Advanced Accounting
Full Marks 100

MODULE I – 50 Marks

21. Accounting Theory and Accounting Standards: Concept of capital and capital maintenance, relation between capital and income, Limitations of Historic Cost accounting; Accounting Standards (ASs): AS-1, AS-2, AS-9 and AS-10 (Definitions and Main Provisions); An Overview of Indian Accounting Standards (Ind ASs) and International Financial Reporting Standards (IFRSs). **JD**
22. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture, Reissue and Buy-Back of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures, Employees' Stock Option Scheme (ESOS) and Employees' Stock Purchase Scheme (ESPS). **PN**
23. Redemption of Preference Shares and Debentures (Simple Problems) **JD**
24. Profit or Loss Prior to Incorporation **PN**
25. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures –treatment of brokerage, cum & ex-interest and cum & ex-dividend transfer of securities; Valuation of Investment as per Accounting Standard AS 13. **JD**

MODULE II – 50 Marks

26. Final Accounts of Companies: Preparation and Presentation of Statement of Profit & Loss and Balance Sheet as per Schedule III of the Companies Act, 2013. **PN**
27. Ratio Analysis: Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios–liquidity, solvency, activity, profitability, capital structure, managerial efficiency. **JD**
28. (a) Funds Flow Statement: Concepts of fund – Meaning, nature, importance and limitations of funds flow statement – Various sources and uses of fund – Preparation of funds flow statement. **PN**
- (b) Cash Flow Statement: Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. cash flow statement – Various sources and uses of cash – Preparation of cash flow statement. **JD**
29. Amalgamation and Reconstruction of Companies: Different types of Amalgamation and their accounting treatment as per Accounting Standard - 14 issued by ICAI (Simple problem excluding inter-company holdings); Internal Reconstruction: Concepts and accounting treatment excluding scheme of reconstruction (Simple Type). **PN**
30. Valuation: Valuation of Goodwill and Shares (Simple Type). **PN**

Note: All topics are to be studied with reference to the Companies Act, 2013 and relevant Accounting Standards in force.

Group 3 Paper V (General Elective)
Fundamentals of Cost & Management Accounting
Full Marks 100 (50+50)

Module 1: (50 Marks)

11. Introduction- Meanings and Concepts of Cost, Costing, Cost Accounting and Cost Accountancy- Objectives and Functions of Cost Accounting - Steps for installation of Cost Accounting System- Meanings & Concepts of Cost Unit, Cost Centre, Service Centre, Profit Centre, Product Costs, Period Costs, Conversion Costs. Definition, Concept, Scope, Function and Limitations of Management Accounting- Management

Accounting Vs Financial Accounting- Management Accounting Vs Cost Accounting- Relationship with Financial Accounting & Management Accounting- Position of Management Accountant in the Organization. **SPC**

12. Elements of Cost & Cost Sheet- Elements of Cost- Direct and Indirect Material, Direct and Indirect Labour, Direct and Indirect Expenses; Indirect Cost (or Overhead)- Factory Overhead, Administrative Overhead, and Selling & Distribution Overhead- Preparation of Cost Sheet. **TKS**

13. Material Costs - Importance of Material Cost Control- Purchase Procedure- Stores Control-Types of Stores- Stores Records - Perpetual Inventory System- Stock Levels (Minimum Level, Maximum Level, Ordering or Reordering Level, Danger Level) - Bin Card & Stores Ledger- ABC Analysis- EOQ: Concept & Application- Methods of Pricing Material Issues (FIFO, LIFO & Simple Average Method). **SPC**

14. Labour Costs- Importance of Labour Cost Control- Time Keeping & Time Booking (Meaning, Concept, Objectives, Advantages, Limitations & Differences)- Idle Time (Causes and treatment in Cost Accounting)- Over Time- Labour Turnover (Causes and treatment of labour turnover)- Items of Labour Bonus Plan. **SPC**

15. Overhead Costs- Definition and Classification (Element, Function and Behaviour wise)- Meaning & Concept of Overhead Allocation and Apportionment and its differences- Distribution to Production and Service Departments- Absorption of Overheads (Meaning & Concept)- Methods of Absorption (Hourly Rate Methods: Labour Hour Rate & Machine Hour Rate)- Under/Over Absorption (Meaning, Concept & Reasons for Under/Over Recovery, Treatment of Under/Over-absorbed Overhead). **TKS**

Module 2: (50 Marks)

11. Contract Costing- Definition - Costing Procedure - Profit on incomplete contracts - Cost plus contract - Escalation Clause - Retention Money - Preparation of Contract Accounts (Introductory Level). **SPC**

12. Process Costing- Definition, Features, Advantages & Limitations of Process Costing - Process Losses -Preparation of Process Accounts (including Normal & Abnormal Loss, Abnormal Gain, Value of Scrap): Simple Problems Only - Equivalent Production (Meaning & Concept) - By-products & Joint products (Meaning and Distinction). **SPC**

13. Marginal Costing and Cost Volume Profit Analysis- Concepts and Definitions of Marginal Cost, Marginal Costing & Contribution -Merits and Demerits of Marginal Costing- Distinction between Absorption Costing & Marginal Costing- Marginal Cost Equation- Techniques of Marginal Costing. Meaning & Importance of Cost-Volume-Profit Analysis- BEP Analysis- Break Even Chart- P/V Ratio- Cost-Volume-Profit Relationship- Profit/Volume Chart- Margin of Safety- Angle of Incidence- Decision-making with the help of Marginal Costing (elementary level). **SPC**

14. Standard Costing- Meaning of Standard Cost- Difference between Standard Cost and Estimated Cost- Meaning, Advantages & Limitations of Standard Costing- Standard Costing Vs Budgetary Control- Computation and Analysis of Variances (Material & Labour): Simple Problems Only. **TKS**

15. Budget and Budgetary Control- Definitions, Concepts, Objectives, Advantages & Limitations of Budget & Budgetary Control- Features of an effective Budget- Types of Budget- Steps in Budgeting- Principal Budget Factors- Budget Committee- Budget Manual- Establishing a system of Budgetary Control- Basic Concept of Zero-Base Budgeting (ZBB). **TKS**

Group 3 Paper VI (General Elective)

General Practical on Accounting & Taxation and Computer Applications

Full Marks 100 (50+50)

Module I: Written Practical on Accounting & Taxation

(50 Marks, including internal assessment 15 marks)

9. Preparation of different types of accounting vouchers/ documents- Debit Voucher, Cash Memo, Purchase Order, Challan, Invoice, Money Receipts, Debit Note, Credit Note, Goods Receipt Note, etc. **SPC**
10. (A) Maintenance of different types of Journals & Ledgers. Preparation of Trial Balance. (like real life situation). **PN**
11. Application for PAN (Form No 49A), TAN (Form No 49B). **TKS**
12. Computation of Income under Income Tax, computation of tax, filling up of Return Forms (ITR 1). **TKS**

Module II: Computer Applications

(50 Marks, including internal assessment 15 marks)

7. Tally (latest version)- Creation of Company, Creation of Ledger Heads, Creation of Stock Items. Entries in six types of accounting journals- Receipt, Payment, Contra, Purchase, Sales, Journal. (including VAT /GST at the time of Purchase/Sales, but excluding entries for manufacture of goods). Alteration/ deletion of Ledger Heads, and Entries. **JD**
8. Excel – Data entry and corrections, Insertion of Row & Column, Deletion of Row & Column, Change of Column width, Summation of numbers in a Column / Row, Sorting of data, Linking of cells. **JD**
9. Drawing of Charts in Excel- Bar Chart, Column Chart, Pie Chart & Line Chart. **JD**

B.COM. (HONOURS)
SEMESTER-I
Course Code: UG BCOM-H-CC-T-01
Course Title: FINANCIAL ACCOUNTING - 1
Core Course; Credit-6; Full Marks-75
Session 2018-2019 (July –Dec)

COURSE CONTENTS:

1. Introduction to Accounting

- (i) Meaning and objectives of Financial Accounting, Meaning of different types of accounting.
- (ii) Users of accounting information and their information needs.
- (iii) Accounting Concepts and Conventions: Entity, Money Measurement, Cost, Realisation, Periodicity, Going Concern, Accrual, Consistency, Conservatism, Materiality, Matching and Full Disclosures.
- (iv) Meaning of Accounting Theory, Relation of Accounting Theory with Practice, Generally Accepted Accounting Principles (GAAP).
- (v) Accounting Standards: Concept, Need, Benefits and Limitations of Accounting Standards, Types (Accounting Standards & Indian Accounting Standards) and names of Accounting Standards in India, Provision relating to mandatory application of Accounting Standards under Companies Act, 2013.
- (vi) Basic concept of IFRS.

Comment [a1]: JD

Comment [a2]: PN

2. Double entry book keeping system:

- (i) Basic Accounting Equation.
- (ii) Meaning and recognition of Assets, Liabilities, Equity, Income and Expenses (Framework for preparation and presentation of Financial Statements issued by the ICAI).
- (iii) Accounting Cycle - Journal, Ledger, Trial Balance and Financial Statements.

Comment [a3]: TKS

3. Basic Principles of preparing Final Accounts

- (i) Revenue recognition: Meaning of revenue and Revenue Recognition Criteria (AS 9).

Comment [a4]: JD

- (ii) **Inventory:** Meaning, Accounting Policy for measurement of Inventory, Ascertainment of cost of inventory, Cost Formula to be used (AS 2).
- (iii) **Property, Plant and Equipment:** Meaning, Recognition and Derecognition of property, plant and equipment, Accounting treatment for sale or exchange of property, plant and equipment (AS 10).
- (iii) **Depreciation:** Meaning, Nature and Objective of Depreciation, Methods of computing Depreciation: Straight-line method, Diminishing balance method and Units of production method, Recognition of Depreciation Charge, Change in the method of depreciation, Depreciation in case of revision of Residual Value and Useful Life of asset (AS 10).
- (iv) **Provision and Reserves.**
- (v) **Capital and Revenue (Expenditure and Income).**
- (vi) **Concept of Capital and maintenance of capital, relation between capital and income.**
- (vii) **Rectification of Errors, Adjusting Entries and Closing Entries.**

Comment [a5]: PN

4. (a) Final Accounts of Profit Seeking Organisation: Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship (Vertical and Horizontal Formats).

Comment [a6]: TKS

(b) Final Accounts of Not-for-Profit Organisation: Receipts and Payment Account, Income and Expenditure Account and Balance Sheet.

Comment [a7]: PN

5. Accounting from Incomplete Records (including Conversion into Double Entry system).

Comment [a8]: JD

6. Accounting for special sales transaction:

(a) **Consignment:** Recording in the books of Consignor – at cost & at invoice price, valuation of unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special commission, Del Credere Commission (with or without bad debt), Use of consignment debtors account, Recording in the books of Consignee.

(b) **Joint Venture:** Separate set of books and same set of books.

(c) **Accounting for sales on approval.**

Comment [a9]: SPC

Course Code: UG BCOM-H-CC-T-02
Course Title: PRINCIPLES OF MANAGEMENT
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction:** Concept, Nature, Process and Significance of Management. Is Management a science or an Art or both?
2. **Evolution of Management Thoughts:** Contribution of Taylor, Fayol, Mayo, Follett, Weber, Neo-classical School, Modern School.
3. **Planning:** Concept, Importance, Process & Types; Forecasting – Meaning, Importance and Techniques; Decision Making- Concepts and Steps in decision making.
4. **Organising:** Concept, Nature, Process, Organisation Structure, Delegation of Authority, Span of Management, Line & Staff Authority.
5. **Motivation:** Concept, Importance of Motivation, Theories- Maslow, Herzberg, McGregor.
6. **Leadership:** Concept, Leadership Styles –Laissez-Faire, Autocratic, Participative, Transactional & Transformational; Leadership Models– Tannenbaum and Schmidt, Blake and Mouton.
7. **Communication:** Concept, Nature, Process, Types, Importance and Barriers.
8. **Control:** Concept, Importance, Features, Process, Tools & Techniques.
9. **Co-ordination:** Meaning, Importance, Principle & Techniques.

Comment [a10]: PN, JD

Comment [a11]: JD

Comment [a12]: TKS

Comment [a13]: PN

Comment [a14]: TKS

Comment [a15]: JD

Comment [a16]: SPC

Course Code: UG BCOM-H-GE-T-01
Course Title: MICRO ECONOMICS
Generic Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Demand and Supply

Concept of demand, Demand function, Law of Demand and its exceptions, Derivation of individual and market demand curves, Elasticity of demand– price elasticity – relation between slope of demand and elasticity of demand– concepts of income and cross price elasticity of demand. Supply function and equilibrium.

2. Consumer Behaviour

Concepts of cardinal and ordinal utility, Indifference curve analysis, Consumer equilibrium using indifference curve and budget constraint –graphical approach.

3. Production and Cost

Production Function – Short run and long run –Law of variable proportions, Concepts of total productivity, average productivity and marginal productivity, Producer equilibrium through isoquants and isocosts – economies and diseconomies of large scale of production and Returns to scale.

Cost Analysis– Fixed and variable cost, Explicit and Implicit costs, Marginal and average costs, Short–run and Long–run cost curves.

4. Perfect Competition

Perfect Competition-Features; Marginal and Average Revenue under Perfect competition; Profit maximization, Equilibrium of firm and industries, Short run and long run supply curves.

5. Imperfect Competition

Monopoly-Features; Marginal and Average Revenue under Imperfect competition; Price and output determination under monopoly, Price discrimination– Degrees of price discrimination; Social cost of Monopoly- concepts only.

Monopolistic competition-Features and examples; Oligopoly – Concepts of collusive and non-collusive oligopoly, Non-collusive Oligopoly- Price competition and Sweezy model, Collusive Oligopoly – Cartel.

Comment [a17]: AKB

B.COM. (GENERAL) SEMESTER-I
Course Code: UG BCOM-G-CC-T-01
Course Title: FINANCIAL ACCOUNTING - 1
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction to Accounting

(i) Meaning and objectives of Financial Accounting, Meaning of different types of accounting.

(ii) Users of accounting information and their information Needs.

(iii) Accounting Concepts and Conventions: Entity, Money Measurement, Cost, Realisation, Periodicity, Going Concern, Accrual, Consistency, Conservatism, Materiality, Matching and Full Disclosures.

(iv) Meaning of Accounting Theory, Relation of Accounting Theory with Practice, Generally Accepted Accounting Principles (GAAP).

Comment [a18]: JD

(v) Accounting Standards: Concept, Need, Benefits and Limitations of Accounting Standards, Types (Accounting Standards & Indian Accounting Standards) and names of Accounting Standards in India.

(vi) Basic concept of IFRS.

Comment [a19]: PN

2. Double entry book keeping system:

(i) Basic Accounting Equation.

(ii) Meaning and recognition of Assets, Liabilities, Equity, Income and Expenses (Framework for preparation and presentation of Financial Statements issued by the ICAI).

(iii) Accounting Cycle - Journal, Ledger, Trial Balance and Financial Statements.

Comment [a20]: TKS

3. Basic Principles of preparing Final Accounts

(i) Revenue recognition: Meaning of revenue and Revenue Recognition Criteria (AS 9).

Comment [a21]: JD

(ii) Inventory: Meaning, Accounting Policy for measurement of Inventory, Ascertainment of cost of inventory, Cost Formula to be used (AS 2),

(iii) Property, Plant and Equipment: Meaning, Recognition and Derecognition of property, plant and equipment, Accounting treatment for sale or exchange of property, plant and equipment (AS 10).

Comment [a22]: PN

(iii) Depreciation: Meaning, Nature and Objective of Depreciation, Methods of computing Depreciation: Straight-line method, Diminishing balance method and Units of production method, Recognition of Depreciation Charge, Change in the method of depreciation, Depreciation in case of revision of Residual Value and Useful Life of asset.

(iv) Provision and Reserves

(v) Capital and Revenue (Expenditure and Income)

(vi) Concept of Capital and maintenance of capital, relation between capital and income.

(vii) Rectification of Errors, Adjusting Entries and Closing Entries.

4. (a) Final Accounts of Profit Seeking Organisations: Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship (Vertical and Horizontal Formats)

Comment [a23]: TKS

(b) Final Accounts of Not-for-Profit Organisations: Receipts and Payment Account, Income and Expenditure Account and Balance Sheet.

Comment [a24]: PN

5. Accounting from Incomplete Records (excluding Conversion into Double Entry system)

Comment [a25]: JD

6. Accounting for special sales transaction:

(a) Consignment: Recording in the books of Consignor – at cost & at invoice price, valuation of unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special commission, Del Credere Commission (with or without bad debt) Use of consignment debtors a/c. Recording in the books of Consignee.

(b) Joint Venture: Separate set of books and Same set of books.

(c) Accounting for sales on approval.

Comment [a26]: SPC

Course Code: UG BCOM-G-CC-T-02
Course Title: PRINCIPLES OF MANAGEMENT
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept, Nature, Process and Significance of Management. Is Management a science or an Art or both?

Comment [a27]: PN, JD

2. Evolution of Management Thoughts: Contribution of Taylor, Fayol, Mayo, Follett, Weber, Neo-classical School, Modern School.

Comment [a28]: JD

3. Planning: Concept, Importance, Process & Types; Forecasting – Meaning, Importance and Techniques; Decision Making- Concepts and Steps in decision making.

4. Organising: Concept, Nature, Process, Organisation Structure, Delegation of Authority, Span of

Management, Line & Staff Authority.

6

Comment [a29]: TKS

5. Motivation: Concept, Importance of Motivation, Theories- Maslow, Herzberg, McGregor.

Comment [a30]: PN

6. Leadership: Concept, Leadership Styles –Laissez-Faire, Autocratic, Participative, Transactional & Transformational; Leadership Models– Tannenbaum and Schmidt, Blake and Mouton.

Comment [a31]: TKS

7. Communication: Concept, Nature, Process, Types, Importance and Barriers.

Comment [a32]: JD

8. Control: Concept, Importance, Features, Process, Tools & Techniques.

9. Co-ordination: Meaning, Importance, Principle & Techniques.

Comment [a33]: SPC

B.COM. (HONOURS)
SEMESTER-II
Course Code: UG BCOM-H-CC-T-03
Course Title: MARKETING MANAGEMENT
Core Course; Credit-6; Full Marks-75
Session 2018-2019 (Jan –June)

COURSE CONTENTS:

1. **Introduction:** Nature and scope of marketing; Evolution of Marketing concepts; Selling vs. marketing; Marketing mix; Marketing environment.
2. **Consumer Behaviour and Market Segmentation:** Nature, scope and significance of consumer behaviour; Market segmentation – concept and importance; Bases for market segmentation.
3. **Product:** Concept of product, consumer, and industrial goods; Packaging and labeling; function, Product life cycle concept.
4. **Price and Promotion:** Importance of price in the marketing mix; Factors affecting price of a product. Pricing policies and strategies; Methods of promotion; Advertising, Personal selling; Sales Promotion.
5. **Distribution and Retailing:** Distribution channels – concept and role; Types of distribution channels; Types of retailing – store based and non-store based retailing, chain stores, specialty stores, supermarkets; Retailing in India.

Comment [a34]: JD

Comment [a35]: JD

Comment [a36]: PN

Comment [a37]: PN

Comment [a38]: JD

Course Code: UG BCOM-H-CC-T-04
Course Title: BUSINESS LAWS
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. The Indian Contract Act, 1872

- (a) Contract – meaning, characteristics and kinds, Essentials of a valid contract.
- (b) Offer and acceptance (Definition, Rules, Communication and Revocation of offer and acceptance).
- (c) Consideration (Definition, Elements, Types, Rules), “No Consideration No Contract” and its exceptions; Capacity to Parties (Definition and Types).
- (d) Consent, Free consent, Coercion, Undue Influence, Fraud, Misrepresentation, Mistake.
- (e) Legality of objects and Consideration.
- (f) Void and Voidable agreements – Definition, Types and Distinction.
- (g) Discharge of a contract – Modes of discharge, Breach and Remedies against breach of contract.
- (h) Specific Contracts - Contingent contracts, Quasi, Contract of Indemnity, Guarantee, Bailment, Pledges.

Comment [a39]: JD

2. The Sale of Goods Act, 1930

- (a) Contract of sale, meaning and difference between sale and agreement to sell.
- (b) Conditions and warranties.
- (c) Transfer of ownership in goods including sale by a non-owner.
- (d) Performance of contract of sale.
- (e) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

Comment [a40]: SPC

3. The Partnership Act, 1932

- (a) Definition – Partner, Partnership.
- (b) Nature and Characteristics of Partnership.
- (c) Types of Partners.
- (d) Registration of a Partnership Firms and consequences of non-registration.
- (e) Rights and Duties of Partners.
- (f) Dissolution of firms – meaning and grounds.

Comment [a41]: TKS

4. The Limited Liability Partnership Act, 2008

- (a) Definition.
- (b) Salient Features of LLP.
- (c) Advantages and disadvantages of LLP.
- (d) Differences between: LLP and Partnership, LLP and Company.
- (e) Incorporation of LLP.

Comment [a42]: TKS

5. The Negotiable Instruments Act 1881

- (a) Definition, Features, Types, Parties of Negotiable Instruments: Promissory Note, Bill of exchange, Cheque (Definition and Types).
- (b) Endorsement: Types of Endorsement.
- (c) Holder and Holder in Due Course, Privileges of Holder in Due Course.
- (d) Dishonour of Negotiable Instruments: Modes, Consequences, Notice of Dishonour; Noting and Protesting.
- (e) Discharge of Negotiable Instruments: Meaning and Modes.

Comment [a43]: SPC

(If any new provisions are enacted in place of the existing provisions, the syllabus will accordingly include such new provisions in place of existing provisions with effect from such date as prescribed by the University of Kalyani. Similarly if any existing provision becomes redundant due to changes, it will be left out of the syllabus)

Course Code: UG BCOM-H-GE-T-02
Course Title: BUSINESS MATHEMATICS AND STATISTICS
Generic Course; Credit-6; Full Marks-75

Module I
BUSINESS MATHEMATICS

COURSE CONTENTS:

1. (A) **Logarithm:** Meaning of Logarithm, General properties of Logarithm, Common Problems.
 (B) **Laws of Indices.**
2. (A) **A.P. Series:** Definition, Common difference, General term, A.M., Sum of first n terms of an A.P., Sum of an infinite A.P. Series.
 (B) **G.P. Series:** Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P., Sum of an infinite G.P. Series.
 (C) **Compound Interest & Annuities:** Different types of interest rates; Concept of Present Value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds.
3. **Functions, Limit, Continuity and Differentiation** – Simple Problem (Without *trigonometric application*)

Comment [a44]: SS

Module II
STATISTICS

COURSE CONTENTS:

1. **Statistical Data and Descriptive Statistics**
 (A) **Statistical Data:** Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties.
 (B) **Diagrammatic representation:** Histogram, Frequency Polygon, Ogive, Pie chart, Line and Bar diagram.
 (C) **Different Measures of Central Tendency:** Arithmetic Mean, Geometric Mean and Harmonic Mean, Median, Mode and Quartiles.
 (D) **Different Measures of Dispersion:** Common measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Measures of relative dispersion.
2. **Simple Correlation and Regression Analysis**
 (A) **Correlation Analysis:** Scatter diagram; Pearson's co-efficient of correlation; Rank Correlation.

- (B) **Regression Analysis:** Regression equations and estimation [Elementary level].
3. **Index Numbers:** Meaning and uses of index numbers; Construction of index numbers: fixed and chain base, Problems relating to construction of index numbers, Construction of consumer price indices.

Comment [a45]: SJS

B.COM. (GENERAL) SEMESTER-II
Course Code: UG BCOM-G-CC-T-04
Course Title: MARKETING MANAGEMENT
Core Course; Credit-6; Full Marks-75
Session 2018-2019 (Jan-June)

COURSE CONTENTS:

1. Introduction: Nature and scope of marketing; Evolution of Marketing concepts; Selling vs. marketing; Marketing mix; Marketing environment.
2. Consumer Behaviour and Market Segmentation: Nature, scope and significance of consumer behaviour; Market segmentation – concept and importance; Bases for market segmentation.
3. Product: Concept of product, consumer, and industrial goods; Packaging and labeling; function, Product life cycle concept.
4. Price and Promotion: Importance of price in the marketing mix; Factors affecting price of a product. Pricing policies and strategies; Methods of promotion; Advertising, Personal selling; Sales Promotion.
5. Distribution and Retailing: Distribution channels – concept and role; Types of distribution channels; Types of retailing – store based and non-store based retailing, chain stores, specialty stores, supermarkets; Retailing in India.

Comment [a46]: JD

Comment [a47]: JD

Comment [a48]: PN

Comment [a49]: PN

Comment [a50]: JD

B.COM. (GENERAL) SEMESTER-II
Course Code: UG BCOM-G-CC-T-05
Course Title: BUSINESS LAWS Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. The Indian Contract Act, 1872
 - (a) Contract – meaning, characteristics and kinds, Essentials of a valid contract.
 - (b) Offer and acceptance (Definition, Rules, Communication and Revocation of offer and acceptance).
 - (c) Consideration (Definition, Elements, Types, Rules), “No Consideration No Contract” and its exceptions; Capacity to Parties (Definition and Types).
 - (d) Consent, Free consent, Coercion, Undue Influence, Fraud, Misrepresentation, Mistake.
 - (e) Legality of objects and Consideration.
 - (f) Void and Voidable agreements – Definition, Types and Distinction.
 - (g) Discharge of a contract – Modes of discharge, Breach and Remedies against breach of contract.
 - (h) Specific Contracts - Contingent contracts, Quasi, Contract of Indemnity, Guarantee,

Bailment, Pledges.

Comment [a51]: JD

2. The Sale of Goods Act, 1930

- (a) Contract of sale, meaning and difference between sale and agreement to sell.
- (b) Conditions and warranties.
- (c) Transfer of ownership in goods including sale by a non-owner.
- (d) Performance of contract of sale.
- (e) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

Comment [a52]: SPC

3. The Partnership Act, 1932

- (a) Definition – Partner, Partnership.
- (b) Nature and Characteristics of Partnership.
- (c) Types of Partners.
- (d) Registration of a Partnership Firms and consequences of non-registration.
- (e) Rights and Duties of Partners.
- (f) Dissolution of firms – meaning and grounds.

Comment [a53]: TKS

4. The Limited Liability Partnership Act, 2008

- (a) Definition.
- (b) Salient Features of LLP.
- (c) Advantages and disadvantages of LLP.
- (d) Differences between: LLP and Partnership, LLP and Company.
- (e) Incorporation of LLP.

Comment [a54]: TKS

5. The Negotiable Instruments Act 1881

- (a) Definition, Features, Types, Parties of Negotiable Instruments: Promissory Note, Bill of exchange, Cheque (Definition and Types).
- (b) Endorsement: Types of Endorsement.
- (c) Holder and Holder in Due Course, Privileges of Holder in Due Course.
- (d) Dishonour of Negotiable Instruments: Modes, Consequences, Notice of Dishonour; Noting and Protesting.
- (e) Discharge of Negotiable Instruments: Meaning and Modes.

Comment [a55]: SPC

(If any new provisions are enacted in place of the existing provisions, the syllabus will accordingly include such new provisions in place of existing provisions with effect from such date as prescribed by the University of Kalyani. Similarly if any existing provision becomes redundant due to changes, it will be left out of the syllabus)

B. Com (Hons)
SEMESTER-I
Course Code: UG BCOM-H-CC-T-01
Course Title: FINANCIAL ACCOUNTING - 1
Core Course; Credit-6; Full Marks-75
Session 2019-2020 (July –Dec)

COURSE CONTENTS:

1. Introduction to Accounting
 - (i) Meaning and objectives of Financial Accounting, Meaning of different types of accounting.
 - (ii) Users of accounting information and their information needs.
 - (iii) Accounting Concepts and Conventions: Entity, Money Measurement, Cost, Realisation, Periodicity, Going Concern, Accrual, Consistency, Conservatism, Materiality, Matching and Full Disclosures.
 - (iv) Meaning of Accounting Theory, Relation of Accounting Theory with Practice, Generally Accepted Accounting Principles (GAAP).
 - (v) Accounting Standards: Concept, Need, Benefits and Limitations of Accounting Standards, Types (Accounting Standards & Indian Accounting Standards) and names of Accounting Standards in India, Provision relating to mandatory application of Accounting Standards under Companies Act, 2013.
 - (vi) Basic concept of IFRS.

2. Double entry book keeping system:
 - (i) Basic Accounting Equation.
 - (ii) Meaning and recognition of Assets, Liabilities, Equity, Income and Expenses (Framework for preparation and presentation of Financial Statements issued by the ICAI).
 - (iii) Accounting Cycle - Journal, Ledger, Trial Balance and Financial Statements.

3. Basic Principles of preparing Final Accounts
 - (i) Revenue recognition: Meaning of revenue and Revenue Recognition Criteria (AS 9).
 - (ii) Inventory: Meaning, Accounting Policy for measurement of Inventory, Ascertainment of cost of inventory, Cost Formula to be used (AS 2).
 - (iii) Property, Plant and Equipment: Meaning, Recognition and Derecognition of property, plant and equipment, Accounting treatment for sale or exchange of property, plant and equipment (AS 10).
 - (iii) Depreciation: Meaning, Nature and Objective of Depreciation, Methods of computing Depreciation: Straight-line method, Diminishing balance method and Units of production method, Recognition of Depreciation Charge, Change in the method of depreciation, Depreciation in case of revision of Residual Value and Useful Life of asset (AS 10).
 - (iv) Provision and Reserves.
 - (v) Capital and Revenue (Expenditure and Income).
 - (vi) Concept of Capital and maintenance of capital, relation between capital and income.
 - (vii) Rectification of Errors, Adjusting Entries and Closing Entries.

4. (a) Final Accounts of Profit Seeking Organisation: Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship (Vertical and Horizontal Formats).
 (b) Final Accounts of Not-for-Profit Organisation: Receipts and Payment Account, Income and Expenditure Account and Balance Sheet.

5. Accounting from Incomplete Records (including Conversion into Double Entry system).

6. Accounting for special sales transaction:
 - (a) Consignment: Recording in the books of Consignor – at cost & at invoice price, valuation of

Comment [a56]: JD

Comment [a57]: PN

Comment [a58]: TKS

Comment [a59]: JD

Comment [a60]: PN

Comment [a61]: TKS

Comment [a62]: PN

Comment [a63]: JD

unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special commission, Del Credere Commission (with or without bad debt), Use of consignment debtors account, Recording in the books of Consignee.

- (b) Joint Venture: Separate set of books and same set of books.
 (c) Accounting for sales on approval.

Comment [a64]: SPC

Course Code: UG BCOM-H-CC-T-02 Course Title: PRINCIPLES OF MANAGEMENT
 Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept, Nature, Process and Significance of Management. Is Management a science or an Art or both?
2. Evolution of Management Thoughts: Contribution of Taylor, Fayol, Mayo, Follett, Weber, Neo-classical School, Modern School.
3. Planning: Concept, Importance, Process & Types; Forecasting – Meaning, Importance and Techniques; Decision Making- Concepts and Steps in decision making.
4. Organising: Concept, Nature, Process, Organisation Structure, Delegation of Authority, Span of Management, Line & Staff Authority.
5. Motivation: Concept, Importance of Motivation, Theories- Maslow, Herzberg, McGregor.
6. Leadership: Concept, Leadership Styles –Laissez-Faire, Autocratic, Participative, Transactional & Transformational; Leadership Models– Tannenbaum and Schmidt, Blake and Mouton.
7. Communication: Concept, Nature, Process, Types, Importance and Barriers.
8. Control: Concept, Importance, Features, Process, Tools & Techniques.
9. Co-ordination: Meaning, Importance, Principle & Techniques.

Comment [a65]: PN, JD

Comment [a66]: PN

Comment [a67]: TKS

Comment [a68]: PN

Comment [a69]: TKS

Comment [a70]: JD

Comment [a71]: SPC

Course Code: UG BCOM-H-GE-T-01
 Course Title: MICRO ECONOMICS
 Generic Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Demand and Supply
 Concept of demand, Demand function, Law of Demand and its exceptions, Derivation of individual and market demand curves, Elasticity of demand– price elasticity – relation between slope of demand and elasticity of demand– concepts of income and cross price elasticity of demand. Supply function and equilibrium.
2. Consumer Behaviour
 Concepts of cardinal and ordinal utility, Indifference curve analysis, Consumer equilibrium using indifference curve and budget constraint –graphical approach.
3. Production and Cost
 Production Function – Short run and long run –Law of variable proportions, Concepts of total productivity, average productivity and marginal productivity, Producer equilibrium through isoquants and isocosts – economies and diseconomies of large scale of production and Returns to scale.
 Cost Analysis– Fixed and variable cost, Explicit and Implicit costs, Marginal and average costs, Short–run and Long–run cost curves.
4. Perfect Competition
 Perfect Competition-Features; Marginal and Average Revenue under Perfect competition; Profit maximization, Equilibrium of firm and industries, Short run and long run supply curves.
5. Imperfect Competition
 Monopoly-Features; Marginal and Average Revenue under Imperfect competition; Price and output determination under monopoly, Price discrimination– Degrees of price discrimination; Social cost of

Monopoly- concepts only.

Monopolistic competition-Features and examples; Oligopoly – Concepts of collusive and non-collusive oligopoly, Non-collusive Oligopoly- Price competition and Sweezy model, Collusive Oligopoly – Cartel.

Comment [a72]: AKB

B.COM. (GENERAL) SEMESTER-I
Course Code: UG BCOM-G-CC-T-01
Course Title: FINANCIAL ACCOUNTING - 1
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction to Accounting

- (i) Meaning and objectives of Financial Accounting, Meaning of different types of accounting.
- (ii) Users of accounting information and their information Needs.
- (iii) Accounting Concepts and Conventions: Entity, Money Measurement, Cost, Realisation, Periodicity, Going Concern, Accrual, Consistency, Conservatism, Materiality, Matching and Full Disclosures.

(iv) Meaning of Accounting Theory, Relation of Accounting Theory with Practice, Generally Accepted Accounting Principles (GAAP).

Comment [a73]: JD

(v) Accounting Standards: Concept, Need, Benefits and Limitations of Accounting Standards, Types (Accounting Standards & Indian Accounting Standards) and names of Accounting Standards in India.

(vi) Basic concept of IFRS.

Comment [a74]: PN

2. Double entry book keeping system:

- (i) Basic Accounting Equation.
- (ii) Meaning and recognition of Assets, Liabilities, Equity, Income and Expenses (Framework for preparation and presentation of Financial Statements issued by the ICAI).
- (iii) Accounting Cycle - Journal, Ledger, Trial Balance and Financial Statements.

Comment [a75]: TKS

3. Basic Principles of preparing Final Accounts

- (i) Revenue recognition: Meaning of revenue and Revenue Recognition Criteria (AS 9).
- (ii) Inventory: Meaning, Accounting Policy for measurement of Inventory, Ascertainment of cost of inventory, Cost Formula to be used (AS 2),
- (iii) Property, Plant and Equipment: Meaning, Recognition and Derecognition of property, plant and equipment, Accounting treatment for sale or exchange of property, plant and equipment (AS 10).

Comment [a76]: JD

Comment [a77]: PN

(iii) Depreciation: Meaning, Nature and Objective of Depreciation, Methods of computing Depreciation: Straight-line method, Diminishing balance method and Units of production method, Recognition of Depreciation Charge, Change in the method of depreciation, Depreciation in case of revision of Residual Value and Useful Life of asset.

(iv) Provision and Reserves

(v) Capital and Revenue (Expenditure and Income)

(vi) Concept of Capital and maintenance of capital, relation between capital and income.

(vii) Rectification of Errors, Adjusting Entries and Closing Entries.

4. (a) Final Accounts of Profit Seeking Organisations: Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship (Vertical and Horizontal Formats)

Comment [a78]: TKS

(b) Final Accounts of Not-for-Profit Organisations: Receipts and Payment Account, Income and Expenditure Account and Balance Sheet.

Comment [a79]: PN

5. Accounting from Incomplete Records (excluding Conversion into Double Entry system)

Comment [a80]: JD

6. Accounting for special sales transaction:

(a) Consignment: Recording in the books of Consignor – at cost & at invoice price, valuation of unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special commission, Del Credere Commission (with or without bad debt) Use of consignment debtors a/c. Recording in the books of Consignee.

(b) Joint Venture: Separate set of books and Same set of books.

(c) Accounting for sales on approval.

Comment [a81]: SPC

Course Code: UG BCOM-G-CC-T-02
 Course Title: PRINCIPLES OF MANAGEMENT
 Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept, Nature, Process and Significance of Management. Is Management a science or an Art or both?
2. Evolution of Management Thoughts: Contribution of Taylor, Fayol, Mayo, Follett, Weber, Neo-classical School, Modern School.
3. Planning: Concept, Importance, Process & Types; Forecasting – Meaning, Importance and Techniques; Decision Making- Concepts and Steps in decision making.
4. Organising: Concept, Nature, Process, Organisation Structure, Delegation of Authority, Span of Management, Line & Staff Authority.
5. Motivation: Concept, Importance of Motivation, Theories- Maslow, Herzberg, McGregor.
6. Leadership: Concept, Leadership Styles –Laissez-Faire, Autocratic, Participative, Transactional & Transformational; Leadership Models– Tannenbaum and Schmidt, Blake and Mouton.
7. Communication: Concept, Nature, Process, Types, Importance and Barriers.
8. Control: Concept, Importance, Features, Process, Tools & Techniques.
9. Co-ordination: Meaning, Importance, Principle & Techniques.

Comment [a82]: PN, JD

Comment [a83]: JD

Comment [a84]: TKS

Comment [a85]: PN

Comment [a86]: TKS

Comment [a87]: JD

Comment [a88]: SPC

**B.COM. (HONOURS)
 SEMESTER-III**

Course Code: UG BCOM-H-CC-T-05
 Course Title: FINANCIAL ACCOUNTING - 2
 Core Course; Credit-6; Full Marks-75
 Session 2019-2020 (July-Dec)

COURSE CONTENTS:

1. Partnership Accounts:

- (a) Profit and Loss Appropriation Account; Capital & Current A/C; Guarantee – by firm, by partner and both; Correction of appropriation items with retrospective effect.
- (b) Changes in constitution of firm – Change in profit sharing ratio, Admission, Retirement, Retirement cum Admission—treatment of Goodwill, revaluation of assets and liabilities, treatment of reserves and adjustment relating to capital; treatment of Joint Life Policy, Death of a Partner.
- (c) Dissolution of Firm – including piecemeal distribution.

Comment [a89]: JD

2. Branch Accounting:

Synthetic Method: Preparation of Branch account, Branch Trading and P/L account (at cost & at Invoice Price) - normal and abnormal losses.

Analytical Method: Preparation of Branch stock adjustment account (at cost & at Invoice Price)- normal and abnormal losses.

Independent branch – concept of wholesale profit.

Comment [a90]: PN

3. Hire Purchase and Installment Payment system:

Recording of Transactions in the books of buyer –Allocation of interest – Use of Interest Suspense Account—Partial and Complete Repossession.

Books of seller – Stock and Debtor Account (with repossession).

Books of Seller – H.P. Trading Account (with repossession).

Basic Concept of Operating and Financial lease (AS 19).

Comment [a91]: TKS

4. Departmental Accounts:

Appropriation of common cost, Preparation of Departmental Trading and P/L Account. Consolidated Trading and P/L Account; inter departmental transfer of goods at cost, cost plus and at selling price and elimination of unrealized profit.

Comment [a92]: TKS

5. **Introduction to Company Accounts:** Meaning of Company and its Classification; Books of Accounts; Maintenance of Books of Accounts; Financial Year; Financial Statements – Meaning, Forms & Contents; Concept of True and Fair View, Authentication of Financial Statements; Filing of Financial Statements.

Comment [a93]: PN

6. **Accounting for Shares and Debentures of Company:** Kinds of Share Capital; Issue, Forfeiture, Reissue and Buy-Back of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures, Employees' Stock Option Scheme (ESOS) and Employees' Stock Purchase Scheme (ESPS).

Comment [a94]: PN

7. **Investment Accounts:** Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures –treatment of brokerage, cum & ex-interest and cum & ex-dividend, transfer of securities; Valuation of Investment as per Accounting Standard AS 13.

Comment [a95]: SPC

8. **Insurance claim** for Loss of Stock and Loss of Profit (simple type).

Comment [a96]: SPC

Course Code: UG BCOM-H-CC-T-06

Course Title: INCOME TAX LAW

Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. (a) **Basic Concepts and Definitions under Income Tax Act, 1961:** Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning

Comment [a97]: PN

(b) **Residential Status of an individual and Incidence of Tax**

Comment [a98]: JD

(c) **Fully Exempted income of an Individual**

Comment [a99]: TKS

(d) **Agricultural Income:** Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income.

Comment [a100]: TKS

2. Heads of Income and Provisions governing Heads of Income:

(a) **Income from Salaries**

Comment [a101]: PN

(b) **Income from House Property**

Comment [a102]: JD

(c) **Profits and Gains from Business or Profession:** Special emphasis on section 28, 32, 35,

35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B.

Comment [a103]: TKS

(d) **Capital Gain:** Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, exemptions u/s 54, 54B, 54D, 54EC and 54F, Taxability of Short Term Capital Gain and Long Term Capital Gain.

Comment [a104]: TKS

(e) **Income from Other Sources** (excluding Dividend): Basic concepts.

Comment [a105]: TKS

3. (a) **Income of other Persons included in Assessee's Total Income: Section 60 to 65**

(b) **Set off and Carry Forward of Losses:** Mode of Set off and Carry Forward, Inter Source and Inter Head Adjustment, Carry forward and set off of losses u/s 71, 72, 73, 74, 74A.

(c) **Deductions from Gross Total Income:** Basic concepts -deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80GGA, 80GGC, 80QQB, 80RRB, 80TTA, 80U.

Comment [a106]: JD

4. **Computation of Total Income and Tax Liability of an Individual.**

Comment [a107]: TKS

5. **Assessment of Income:** Self-Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147.

Comment [a108]: JD

Course Code: UG BCOM-H-CC-T-07
Course Title: HUMAN RESOURCE MANAGEMENT
Core Course; Credit-6; Full Marks-75

Module I

COURSE CONTENTS:

1. **Nature and Scope:** Concept and meaning of Human Resource Management, Understanding the Nature and Scope of HRM, Functions and importance.

Comment [a109]: JD

2. **Human Resource Planning:** Definition, Need and Features of Human Resource Planning, factor affecting Human Resource Planning.

Comment [a110]: TKS

3. **Recruitment and Selection:** Definition of Recruitment, Sources, need and importance of Recruitment, Recruitment Policy – Process, sources of Recruitment. Definition of Selection, Steps of selection.

Comment [a111]: TKS

4. **Training and Development:** Training and Development-Meaning and purpose of training, Benefits of Training to organization and employees. Training methods.

Comment [a112]: SPC

5. **Job Evaluation and Performance Appraisal:** Job Evaluation – objective, scope, methods, Job analysis, Job description, Job Specification- basic concepts and significance. Performance Appraisal - Concept.

Comment [a113]: SPC

Course Code: UG BCOM-H-GE-T-03
Course Title: MACRO ECONOMICS
Generic Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction**

Macroeconomics- Concept, Difference with microeconomics, Concept of basic variables of macroeconomics.

2. National Income Accounting

Concepts and measurement of National Income, Circular flow of income, Real and nominal GDP, GDP deflator, Alternative approaches of measuring national income – Income method, Expenditure method, Value-added method; Difficulties in Measurement of NI.

3. Determination of Equilibrium Level of Income

Simple Keynesian Model, Consumption, Savings and Investment Function, Concept of multiplier – Government expenditure multiplier and Tax multiplier, Investment multiplier and Balanced budget multiplier.

4. Commodity Market and Money Market Equilibrium

Concept of commodity market and money market equilibrium, Demand and supply of money – Transaction demand of money and speculative demand of money, Derivation of IS and LM curves, Shifts of IS & LM curves, Monetary and Fiscal policy in ISLM.

5. Money and Inflation

Measures of money supply; Quantity Theory of Money; Concept of inflation, Demand-pull and cost-push inflation, Inflationary gap; Effects of Inflation; Monetary and fiscal policies to control inflation.

Comment [a114]: AKB

Course Code: UG BCOM-H-SEC-T+P-01A

Course Title: E-COMMERCE AND COMPUTER APPLICATIONS IN BUSINESS

Skill Enhancement Course; Credit-2; Full Marks-50

COURSE CONTENTS:

1. **Introduction** - Limitation of conventional commerce, Origin of E-Commerce, Evolution of E-Commerce, E-Commerce and E-Business, Definition of E-Commerce, Features of E-Commerce, M-Commerce-The concept- How it is done- Purposes of use.

Comment [a115]: JD

2. **Models of E-Commerce**- Concepts and examples Business - to - Business (B2B), Business - to - Consumer (B2C), Consumer - to - Consumer (C2C), Consumer - to - Business (C2B), Business - to - Government (B2G), Government - to - Business (G2B), Government - to - Citizen (G2C).

Comment [a116]: JD

3. Digital Money Transactions

Methods of e-payments [Debit Card, Credit Card, Smart Cards, e-Money], electronic or digital wallet, digital signature (procedures, working and legal provisions), payment gateways[Core Banking Solution or CBS, Mobile Payment, UPI, NCPI, International Payments], Online banking [meaning, concepts, importance, electronic fund transfer, automated clearinghouse, automated ledger posting]; Risks involved in e-payments.

Comment [a117]: TKS

4. E-Commerce in India

Comment [a118]: TKS

Module II

COMPUTER APPLICATIONS IN BUSINESS (Practical)

COURSE CONTENTS:

Accounting and Related Software

1. Tally (Current Version):

- (a) Creation of Masters- Creation of Company, Creation of Ledgers, Creation of Stock Items, Creation of Manufacturing voucher type.
- (b) Activation of GST option, Activation of Debit Note / Credit Note.
- (c) Passing of Accounting Voucher Entries (including inventory and GST) in – (i) Receipt, (ii) Payment, (iii) Contra, (iv) Purchase, (v) Sales, (vi) Debit Note, (vii) Credit Note, and (viii) Journal, modes.
- (d) Passing of Inventory Voucher Entries- Manufacturing type.
- (e) Preparation of Bank Reconciliation Statement.

Comment [a119]: TKS

2. Excel

- (a) Insertion and deletion of Column/ Row/ Sheet.
- (b) Change of Column Width.
- (c) Freezing of Column & Row.
- (d) Sorting- Single column and Multi Column (i.e. data base).
- (e) Linking of one cell with another in the same sheet/ another sheet.
- (f) Autosum and Formula copy with fill handle.
- (g) Preparation of Chart- Column Chart, Bar Chart, Pie Chart, and Line Chart.

Comment [a120]: JD

B.COM. (GENERAL) SEMESTER-III
Course Code: UG BCOM-G-CC-T-07
Course Title: FINANCIAL ACCOUNTING - 2
Core Course; Credit-6; Full Marks-75
Session 2019-2020 (July-Dec)

COURSE CONTENTS:

1. Insurance Claim for Loss of Stock (simple problem).
2. Partnership Accounts:
 - (a) Profit and Loss Appropriation accounts; Capital & Current A/C; Guarantee – by firm, by partner and both; Correction of appropriation items with retrospective effect.
 - (b) Changes in constitution of firm – Change in profit sharing ratio, Admission, Retirement, Retirement cum Admission—treatment of Goodwill, revaluation of assets and liabilities, treatment of reserves and adjustment relating to capital; treatment of Joint Life Policy, Death of a Partner.
 - (c) Dissolution of Firm – excluding piecemeal distribution.
3. Branch Accounting:
 - Synthetic Method: Preparation of Branch account, Branch Trading and P/L account (at cost & at Invoice Price)- normal and abnormal losses.
 - Analytical Method: Preparation of Branch stock adjustment account (at cost & at Invoice Price)- normal and abnormal losses.
4. Hire purchase and installment payment system:
 - Recording of Transactions in the books of buyer –Allocation of interest – Use of Interest Suspense Account—Partial and Complete Repossession.
 - Books of seller – Stock and Debtor Account (with repossession).
5. Departmental Accounts:
 - Appropriation of common cost; preparation of Departmental Trading and P/L Account. Consolidated Trading and P/L Account; inter departmental transfer of goods at cost, cost plus and at selling price and

Comment [a121]: SPC

Comment [a122]: JD

Comment [a123]: PN

Comment [a124]: TKS

elimination of unrealized profit.

Comment [a125]: TKS

6. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures –treatment of brokerage, cum & ex-interest and cum & ex-dividend, transfer of securities. (Simple Problems).

Comment [a126]: SPC

B.COM. (GENERAL) SEMESTER-III
Course Code: UG BCOM-G-CC-T-08
Course Title: INCOME TAX LAW
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. (a) Basic Concepts and Definitions under Income Tax Act, 1961: Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning.

Comment [a127]: PN

(b) Residential Status of an individual and Incidence of Tax.

Comment [a128]: JD

(c) Fully Exempted income of an Individual.

Comment [a129]: TKS

(d) Agricultural Income: Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income.

Comment [a130]: TKS

2. Heads of Income and Provisions governing Heads of Income:

(a) Income from Salaries.

Comment [a131]: PN

(b) Income from House Property.

Comment [a132]: JD

(c) Profits and Gains from Business or Profession: Special emphasis on section 28, 32, 35, 35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B.

Comment [a133]: TKS

(d) Capital Gain: Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, Taxability of Short Term Capital Gain and Long Term Capital Gain.

Comment [a134]: TKS

(e) Income from Other Sources (excluding Dividend): Basic concepts.

Comment [a135]: TKS

3. Deductions from Gross Total Income: Basic concepts - deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80TTA, 80U.

Comment [a136]: JD

4. Computation of Total Income and Tax Liability of an Individual.

Comment [a137]: TKS

5. Assessment of Income: Self Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147.

Comment [a138]: JD

If any new provisions are enacted in place of the existing provisions, the syllabus will stand modified accordingly with effect from such date as may be prescribed by UNIVERSITY OF KALYANI.

B.COM. (GENERAL) SEMESTER-III
Course Code: UG BCOM-G-SEC-T+P-01A

Course Title: E-COMMERCE AND COMPUTER APPLICATIONS IN BUSINESS
Skill Enhancement Course; Credit-2; Full Marks-50

Module I

E-COMMERCE (Theory)

COURSE OBJECTIVE:

The objective is to enable the student to become familiar with the mechanism for conducting business transactions through electronic means.

COURSE CONTENTS:

1. Introduction - Limitation of conventional commerce, Origin of E-Commerce, Evolution of E-Commerce, E-Commerce and E-Business, Definition of E-Commerce, Features of E-Commerce, M-Commerce-The concept- How it is done- Purposes of use.

Comment [a139]: JD

2. Models of E-Commerce- Concepts and examples Business - to - Business (B2B), Business - to - Consumer (B2C), Consumer - to - Consumer (C2C), Consumer - to - Business (C2B), Business - to

- Government (B2G), Government - to - Business (G2B), Government - to - Citizen (G2C).

Comment [a140]: JD

3. E-CRM and SCM

E-CRM-definition, features, goals of E-CRM business framework, phases of E-CRM, types of E-CRM, Functional components of E-CRM, strategies for E-CRM solutions; SCM-definition, features, types of supply chain.

Comment [a141]: TKS

4. Digital Money Transactions

Methods of e-payments [Debit Card, Credit Card, Smart Cards, e-Money], electronic or digital wallet, digital signature (procedures, working and legal provisions), payment gateways[Core Banking Solution or CBS, Mobile Payment, UPI, NCPI, International Payments], Online banking [meaning, concepts, importance, electronic fund transfer, automated clearinghouse, automated ledger posting]; Risks involved in e-payments.

Comment [a142]: TKS

5. E-Commerce in India.

Module II

COMPUTER APPLICATIONS IN BUSINESS (Practical)

COURSE OBJECTIVE:

The objective is to provide basic knowledge and skills of computer.

COURSE CONTENTS:

Accounting and Related Software

1. Tally (Current Version):

(a) Creation of Masters- Creation of Company, Creation of Ledgers, Creation of Stock Items, Creation of Manufacturing voucher type.

(b) Activation of GST option, Activation of Debit Note / Credit Note.

(c) Passing of Accounting Voucher Entries (including inventory and GST) in – (i) Receipt, (ii) Payment, (iii) Contra, (iv) Purchase, (v) Sales, (vi) Debit Note, (vii) Credit Note, and (viii) Journal, modes.

(d) Passing of Inventory Voucher Entries- Manufacturing type.

(e) Preparation of Bank Reconciliation Statement.

Comment [a143]: TKS

2. Excel

(a) Insertion and deletion of Column/ Row/ Sheet.

(b) Change of Column Width.

(c) Freezing of Column & Row.

(d) Sorting- Single column and Multi Column (i.e. data base).

(e) Linking of one cell with another in the same sheet/ another sheet.

(f) Autosum and Formula copy with fill handle.

(g) Preparation of Chart- Column Chart, Bar Chart, Pie Chart, and Line Chart.

Comment [a144]: JD

B.COM. (HONOURS) SEMESTER-II
Course Code: UG BCOM-H-CC-T-03 Course
Title: MARKETING MANAGEMENT
Core Course; Credit-6; Full Marks-75
Session 2019-2020 (Jan –June)

COURSE CONTENTS:

1. Introduction: Nature and scope of marketing; Evolution of Marketing concepts; Selling vs. marketing; Marketing mix; Marketing environment.

Comment [a145]: JD

2. Consumer Behaviour and Market Segmentation: Nature, scope and significance of consumer

behaviour; Market segmentation – concept and importance; Bases for market segmentation.

Comment [a146]: JD

3. Product: Concept of product, consumer, and industrial goods; Packaging and labeling; function, Product life cycle concept.

Comment [a147]: PN

4. Price and Promotion: Importance of price in the marketing mix; Factors affecting price of a product. Pricing policies and strategies; Methods of promotion; Advertising, Personal selling; Sales Promotion.

Comment [a148]: PN

5. Distribution and Retailing: Distribution channels – concept and role; Types of distribution channels; Types of retailing – store based and non-store based retailing, chain stores, specialty stores, supermarkets; Retailing in India.

Comment [a149]: JD

Course Code: UG BCOM-H-CC-T-04

Course Title: BUSINESS LAWS Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. The Indian Contract Act, 1872

- (a) Contract – meaning, characteristics and kinds, Essentials of a valid contract.
- (b) Offer and acceptance (Definition, Rules, Communication and Revocation of offer and acceptance).
- (c) Consideration (Definition, Elements, Types, Rules), “No Consideration No Contract” and its exceptions; Capacity to Parties (Definition and Types).
- (d) Consent, Free consent, Coercion, Undue Influence, Fraud, Misrepresentation, Mistake.
- (e) Legality of objects and Consideration.
- (f) Void and Voidable agreements – Definition, Types and Distinction.
- (g) Discharge of a contract – Modes of discharge, Breach and Remedies against breach of contract.
- (h) Specific Contracts - Contingent contracts, Quasi, Contract of Indemnity, Guarantee, Bailment, Pledges.

Comment [a150]: JD

2. The Sale of Goods Act, 1930

- (a) Contract of sale, meaning and difference between sale and agreement to sell.
- (b) Conditions and warranties.
- (c) Transfer of ownership in goods including sale by a non-owner.
- (d) Performance of contract of sale.
- (e) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

Comment [a151]: SPC

3. The Partnership Act, 1932

- (a) Definition – Partner, Partnership.
- (b) Nature and Characteristics of Partnership.
- (c) Types of Partners.
- (d) Registration of a Partnership Firms and consequences of non-registration.
- (e) Rights and Duties of Partners.
- (f) Dissolution of firms – meaning and grounds.

Comment [a152]: TKS

4. The Limited Liability Partnership Act, 2008

- (a) Definition.
- (b) Salient Features of LLP.
- (c) Advantages and disadvantages of LLP.
- (d) Differences between: LLP and Partnership, LLP and Company.
- (e) Incorporation of LLP.

Comment [a153]: TKS

5. The Negotiable Instruments Act 1881

- (a) Definition, Features, Types, Parties of Negotiable Instruments: Promissory Note, Bill of

exchange, Cheque (Definition and Types).

- (b) Endorsement: Types of Endorsement.
- (c) Holder and Holder in Due Course, Privileges of Holder in Due Course.
- (d) Dishonour of Negotiable Instruments: Modes, Consequences, Notice of Dishonour; Noting and Protesting.
- (e) Discharge of Negotiable Instruments: Meaning and Modes.

Comment [a154]: SPC

(If any new provisions are enacted in place of the existing provisions, the syllabus will accordingly include such new provisions in place of existing provisions with effect from such date as prescribed by the University of Kalyani. Similarly if any existing provision becomes redundant due to changes, it will be left out of the syllabus)

Course Code: UG BCOM-H-GE-T-02

Course Title: BUSINESS MATHEMATICS AND STATISTICS

Generic Course; Credit-6; Full Marks-75

Module I BUSINESS MATHEMATICS

COURSE CONTENTS:

1. (A) Logarithm: Meaning of Logarithm, General properties of Logarithm, Common Problems.
(B) Laws of Indices.
2. (A) A.P. Series: Definition, Common difference, General term, A.M., Sum of first n terms of an A.P., Sum of an infinite A.P. Series.
(B) G.P. Series: Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P., Sum of an infinite G.P. Series.
- (C) Compound Interest & Annuities: Different types of interest rates; Concept of Present Value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds.
3. Functions, Limit, Continuity and Differentiation – Simple Problem (Without trigonometric application)

Comment [a155]: SS

Module II STATISTICS

COURSE CONTENTS:

1. Statistical Data and Descriptive Statistics
 - (A) Statistical Data: Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties.
 - (B) Diagrammatic representation: Histogram, Frequency Polygon, Ogive, Pie chart, Line and Bar diagram.
 - (C) Different Measures of Central Tendency: Arithmetic Mean, Geometric Mean and Harmonic Mean, Median, Mode and Quartiles.
 - (D) Different Measures of Dispersion: Common measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Measures of relative dispersion.
2. Simple Correlation and Regression Analysis
 - (A) Correlation Analysis: Scatter diagram; Pearson's co-efficient of correlation; Rank Correlation.
 - (B) Regression Analysis: Regression equations and estimation [Elementary level].
3. Index Numbers: Meaning and uses of index numbers; Construction of index numbers: fixed and chain base, Problems relating to construction of index numbers, Construction of consumer price indices.

Comment [a156]: SJS

B.COM. (GENERAL) SEMESTER-II
 Course Code: UG BCOM-G-CC-T-04
 Course Title: MARKETING MANAGEMENT
 Core Course; Credit-6; Full Marks-75
 Session 2018-2019 (Jan-June)

COURSE CONTENTS:

1. Introduction: Nature and scope of marketing; Evolution of Marketing concepts; Selling vs. marketing; Marketing mix; Marketing environment.

Comment [a157]: JD

2. Consumer Behaviour and Market Segmentation: Nature, scope and significance of consumer behaviour; Market segmentation – concept and importance; Bases for market segmentation.

Comment [a158]: JD

3. Product: Concept of product, consumer, and industrial goods; Packaging and labeling; function, Product life cycle concept.

Comment [a159]: PN

4. Price and Promotion: Importance of price in the marketing mix; Factors affecting price of a product. Pricing policies and strategies; Methods of promotion; Advertising, Personal selling; Sales Promotion.

Comment [a160]: PN

5. Distribution and Retailing: Distribution channels – concept and role; Types of distribution channels; Types of retailing – store based and non-store based retailing, chain stores, specialty stores, supermarkets; Retailing in India.

Comment [a161]: JD

B.COM. (GENERAL) SEMESTER-II

Course Code: UG BCOM-G-CC-T-05

Course Title: BUSINESS LAWS Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. The Indian Contract Act, 1872

(a) Contract – meaning, characteristics and kinds, Essentials of a valid contract.

(b) Offer and acceptance (Definition, Rules, Communication and Revocation of offer and acceptance).

(c) Consideration (Definition, Elements, Types, Rules), “No Consideration No Contract” and its exceptions; Capacity to Parties (Definition and Types).

(d) Consent, Free consent, Coercion, Undue Influence, Fraud, Misrepresentation, Mistake.

(e) Legality of objects and Consideration.

(f) Void and Voidable agreements – Definition, Types and Distinction.

(g) Discharge of a contract – Modes of discharge, Breach and Remedies against breach of contract.

(h) Specific Contracts - Contingent contracts, Quasi, Contract of Indemnity, Guarantee, Bailment, Pledges.

Comment [a162]: JD

2. The Sale of Goods Act, 1930

(a) Contract of sale, meaning and difference between sale and agreement to sell.

(b) Conditions and warranties.

(c) Transfer of ownership in goods including sale by a non-owner.

(d) Performance of contract of sale.

(e) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

Comment [a163]: SPC

3. The Partnership Act, 1932

(a) Definition – Partner, Partnership.

(b) Nature and Characteristics of Partnership.

(c) Types of Partners.

(d) Registration of a Partnership Firms and consequences of non-registration.

(e) Rights and Duties of Partners.

(f) Dissolution of firms – meaning and grounds.

Comment [a164]: TKS

4. The Limited Liability Partnership Act, 2008

- (a) Definition.
- (b) Salient Features of LLP.
- (c) Advantages and disadvantages of LLP.
- (d) Differences between: LLP and Partnership, LLP and Company.
- (e) Incorporation of LLP.

Comment [a165]: TKS

5. The Negotiable Instruments Act 1881

- (a) Definition, Features, Types, Parties of Negotiable Instruments: Promissory Note, Bill of exchange, Cheque (Definition and Types).
- (b) Endorsement: Types of Endorsement.
- (c) Holder and Holder in Due Course, Privileges of Holder in Due Course.
- (d) Dishonour of Negotiable Instruments: Modes, Consequences, Notice of Dishonour; Noting and Protesting.
- (e) Discharge of Negotiable Instruments: Meaning and Modes.

Comment [a166]: SPC

(If any new provisions are enacted in place of the existing provisions, the syllabus will accordingly include such new provisions in place of existing provisions with effect from such date as prescribed by the University of Kalyani. Similarly if any existing provision becomes redundant due to changes, it will be left out of the syllabus)

B.COM. (HONOURS)

SEMESTER-IV

Course Code: UG BCOM-H-CC-T-08

Course Title: COST ACCOUNTING

Core Course; Credit-6; Full Marks-75

***Session 2019-2020 (Jan-
June)***

COURSE CONTENTS:

1. **Introduction:** Meaning and Objectives of Cost Accounting, Difference between Cost Accounting, Financial Accounting and Management Accounting, Cost Unit, Cost Centre, Investment Centre & Profit Centre – Cost Accounting System – Installing of Cost Accounting System – Essentials of good Cost Accounting System. Methods and Techniques of Costing.
2. **Costs:** Meaning of cost, Various concepts of costs (Direct cost, Indirect costs, Period cost, Conversion cost, Sunk cost, Opportunity cost, etc.), Cost classification based on Elements, Functions & Behaviour, Preparation of Cost Sheet including Budgeted Cost Sheet.
3. **Material Costs:** Importance of Materials Cost, Constituents of material cost; Centralised & Decentralised Purchase of Materials, Purchase Procedure, Documents; Storage of Materials: Storage records; Material Control: Stock Levels (Maximum, Minimum, Re-Order & Danger Level), Meaning of Economic Order Quantity and its applications, Periodic Inventory vs. Perpetual Inventory, ABC Analysis, VED Analysis, JIT Inventory; Different Methods for Pricing the Issue of Material: FIFO, LIFO, Simple, Weighted & Periodic Average Methods, Preparation of Store Ledger; Accounting for material cost.
4. **Labour Costs:** Accounting and Control of labour cost, Time keeping and time booking, Methods of wage payment (Piece rate, Differential piece rate, Time rate), Incentive schemes

Comment [a167]: SPC

Comment [a168]: PN

Comment [a169]: SPC

for workers (Halsey, Rowan, Halsey-Weir), Measurement of Efficiency of a workers. Concept and treatment of idle time, over time, labour turnover and fringe benefits.

Comment [a170]: TKS

5. **Overhead Costs:** Classification, allocation, apportionment and absorption of overheads; Meaning, Concept & Reasons for Under- absorption and over-absorption of Overhead and treatment in Cost Accounting; Capacity Levels and Costs; Treatments of certain items in costing like interest on capital, packing expenses, bad debts, research and development expenses; Activity based cost allocation.

Comment [a171]: PN

6. **Contract Costing:** Meaning, Features, Costing Procedure, Fixed Price Contract & Cost Plus Contract, Escalation & De-escalation Clause, Retention Money, Treatment of Profit and Loss on Incomplete Contract, Preparation of Contract Account.

Comment [a172]: SPC

7. **Process Costing:** Meaning, Features, Applicability, Preparation of Process Account, Treatment of Normal Loss, Abnormal Loss & Abnormal Gain, Loss of Income, etc. in Cost Accounting, Inter Process Profit, By-Product & Joint-Product (Meaning and Distinction).

Comment [a173]: SPC

8. **Operating Costing:** Meaning & Concepts, Areas of Application, Different Services and their Composite Units, Computation of Composite Unit Cost.

Comment [a174]: TKS

9. **Cost Control Accounts** (non-integrated systems only): Journal Entries, Ledger Account, Costing Profit & Loss Account; Reasons for Variation between Profit as per Cost Accounts & Profit as per Financial Accounts, Simple Problems on Reconciliation of the Two Profits.

Comment [a175]: TKS

Course Code: UG BCOM-H-CC-T-09

Course Title: INDIRECT TAX LAWS

Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction:** Concept and types of indirect tax. Right to impose indirect taxes (by Centre and States/Union Territories) before and after 101st Amendment of Constitution. Introduction of Goods & Services Tax (GST); Indirect taxes subsumed by GST; Goods kept outside the purview of GST; Formation of GST Council; Date of effect and the non-taxable territory; Types of GST- Central GST (governed by The Central Goods & Services Tax Act 2017), State/UT GST (governed by The State Goods & Services Tax Act 2017 of each State/ Union Territory) and Integrated GST (governed by The Integrated Goods & Services Tax Act 2017).

Comment [a176]: JD

2. **Supply:** Levy of tax on "Supply"; Definition of supply; Intra-State and Inter-State supply; Composite and Mixed supply; Supplies of goods and services liable to be reverse charged, Composition levy.

Comment [a177]: JD

3. (i) **Registration:** Persons liable to registration; Compulsory registration; Procedure of Registration.

(ii) **Documentation:** Tax Invoice; Bill of Supply, Receipt Voucher, Payment Voucher, Refund Voucher, Debit Note, Credit Note. Harmonized System Nomenclature (HSN) of Goods, and Service Accounting Code (SAC) of Services; Nil rated supplies, Zero rated supplies, Exempted supplies & Non-GST supplies.

Comment [a178]: TKS

4. **Input Tax Credit:** Eligibility and conditions for taking input tax credit; Apportionment of input

credit and blocked credits;

Comment [a179]: TKS

5. (i) **GST Returns:** GSTR 1, GSTR 2 and GSTR 3, Time and procedure of filing of Returns.

(ii) **Payment of Tax:** (a) Through Input Tax Credit (b) By cash/bank after generation of online Challan.

Comment [a180]: TKS

Course Code: UG BCOM-H-CC-T-10

Course Title: COMPANY LAW

Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

(i) **Introduction:** Basic features of Companies Act 2013, Types of companies-Company limited by Guarantee, Company limited by Shares, Unlimited Company, Private company, public company, one person company, small company, dormant company, associate company, government company, Holding Company, Subsidiary Company; Concept of corporate veil, Doctrine of lifting corporate veil.

Comment [a181]: PN

(ii) **Documents:** Meaning, contents and alteration of Memorandum of Association, Doctrine of Ultra Vires, Meaning, contents and alteration of Article of Association, Doctrine of Indoor Management; Meaning and contents of Prospectus, abridged prospectus, shelf prospectus, red-herring prospectus, misstatement in a prospectus.

Comment [a182]: PN

(iii) **Formation of Company:** Meaning, Legal Position and Functions of Promoter, Steps in formation of a Company, procedure for registration and incorporation, certificate of incorporation and commencement of business.

Comment [a183]: SPC

(iv) **Management:** Classification of directors, director identification number (DIN), qualification, disqualification, appointment, legal position; number of directorship ; removal, resignation of director, duties, liabilities, powers of board of directors; Key Managerial Personnel (Definition, Appointment and Qualifications) – Managing Director, Whole time Directors, Companies Secretary, Chief Financial Officer, Resident Director, Independent Director, Women Director.

Comment [a184]: SPC

(v) **Company Meetings:** Meetings of shareholders and board of directors; Types of meetings, Convening and conduct of meetings, Requisites of a valid meeting, postal ballot, meeting through videoconferencing, e-voting.

Comment [a185]: PN

Course Code: UG BCOM-H-GE-T-04

Course Title: INDIAN ECONOMICS

Generic Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Basic Issues of Economic Development:** Concept and Measures of Development and Underdevelopment; Human Development Index; Human Capital-Meaning and Importance.

2. **Basic Issues of Indian Economy:** Features of Indian Economy; Sectoral distribution of National Income; Structural Change in Indian Economy; Problem of Poverty, Poverty alleviation measures; Problem of Unemployment and the policy measures; Population Growth and Economic Development.

3. **Agricultural Sector:** Problems of Indian agriculture; Land Reforms; Green Revolution and its

impact; Problems of Rural Credit and Marketing; Co-operative Farming.

4. Industrial Sector: Industrial Labour; Industrial Sickness; Small Scale and Cottage Industry; Industrial Policy-Role of Public Sector; Its performance and issue of Disinvestment-Privatisation.

5. External Sector: Foreign Capital: Components; Need of Foreign Capital; Policy towards Foreign Capital; Foreign Investment since 1991; Globalisation- Meaning and Impact; International Institutions-WTO, World Bank, IMF.

Comment [a186]: AKB

Course Code: UG BCOM-H-SEC-T-02A

Course Title: TAX RETURNS AND FILING OF TAX RETURNS

Skill Enhancement Course; Credit-2; Full Marks-50

COURSE CONTENTS:

A. Returns under Income Tax (10 Marks)

1. PAN and TAN- Procedure for application of PAN/TAN.
2. (a) Payment of Advance Tax and Self Assessment Tax.
(b) Interest- Interest u/s 234A, 234B, 234C, (simple problems).
3. Filing of Returns- Due dates of filing of Returns- Section 139(1); Section 139(4) [after due date]; Section 139(5) [Revised Return]; Section 139(9) [Defective Return]; Section 142 (1) [Notice to submit Return]. Different types of Returns and Due dates for filing of those Returns.
4. Procedure of filing e-Return- ITR 1 only.

Comment [a187]: JD

B. Returns under Goods and Services Tax (10 Marks)

1. Different types of Taxable Persons and Returns to be submitted by them; Due dates for filing of Returns.
2. Procedure of filing e-Return- GSTR 1 and GSTR 4 only.

Comment [a188]: TKS

C. Practical on hard copy of ITR 1(20 Marks)

Comment [a189]: JD, TKS

B.COM. (GENERAL)

SEMESTER-IV

Course Code: UG BCOM-G-CC-T-10

Course Title: COST ACCOUNTING Core Course; Credit-6; Full Marks-75

Session 2019-2020 (Jan-June)

COURSE CONTENTS:

1. Introduction: Meaning and Objectives of Cost Accounting, Difference between Cost Accounting, Financial Accounting and Management Accounting, Cost Unit, Cost Centre, Investment Centre & Profit Centre – Cost Accounting System – Installing of Cost Accounting System – Essentials of good Cost Accounting System. Methods and Techniques of Costing.

Comment [a190]: SPC

2. Costs: Meaning of cost, Various concepts of costs (Direct cost, Indirect costs, Period cost, Conversion cost, Sunk cost, Opportunity cost, etc.), Cost classification based on Elements, Functions & Behaviour, Preparation of Cost Sheet including Budgeted Cost Sheet.

Comment [a191]: PN

3. Material Costs: Importance of Materials Cost, Constituents of material cost; Centralised & Decentralised Purchase of Materials, Purchase Procedure, Documents; Storage of Materials: Storage records; Material Control: Stock Levels (Maximum, Minimum, Re-Order & Danger Level), Meaning of Economic Order Quantity and its applications, Periodic Inventory vs. Perpetual Inventory, ABC Analysis, VED Analysis, JIT Inventory; Different Methods for Pricing the Issue of Material: FIFO, LIFO, Simple, Weighted & Periodic Average Methods, Preparation of Store Ledger; Accounting for material cost.

Comment [a192]: SPC

4. Labour Costs: Accounting and Control of labour cost, Time keeping and time booking, Methods of wage payment (Piece rate, Differential piece rate, Time rate), Incentive schemes for workers (Halsey, Rowan, Halsey-Weir), Measurement of Efficiency of a workers.

Comment [a193]: TKS

5. Overhead Costs: Classification, allocation, apportionment and absorption of overheads; Meaning, Concept & Reasons for under-absorption and over-absorption of Overhead and treatment in Cost Accounting; Capacity Levels and Costs.

Comment [a194]: PN

6. Contract Costing: Meaning, Features, Costing Procedure, Fixed Price Contract & Cost Plus Contract, Escalation & De-escalation Clause, Retention Money, Preparation of Contract Account.

Comment [a195]: SPC

7. Budget and Budgetary Control: Concept of budget and budgetary control. Principal Budget Factors, Preparation of Functional budgets (Sales, Purchase, Production, etc.), cash budget, fixed and flexible budgets; Concept of Master Budget.

Comment [a196]: TKS

Course Code: UG BCOM-G-CC-T-11
Course Title: INDIRECT TAX LAWS
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept and types of indirect tax. Right to impose indirect taxes (by Centre and States/Union Territories) before and after 101st Amendment of Constitution. Introduction of Goods & Services Tax (GST); Indirect taxes subsumed by GST; Goods kept outside the purview of GST; Formation of GST Council; Date of effect and the non-taxable territory; Types of GST- Central GST (governed by The Central Goods & Services Tax Act 2017), State/UT GST (governed by The State Goods & Services Tax Act 2017 of each State/ Union Territory) and Integrated GST (governed by The Integrated Goods & Services Tax Act 2017).

Comment [a197]: JD

2. Supply: Levy of tax on "Supply"; Definition of supply; Intra-State and Inter-State supply; Composite and Mixed supply; Supplies of goods and services liable to be reverse charged, Composition levy.

Comment [a198]: JD

3. (i) Registration: Persons liable to registration; Compulsory registration; Procedure of Registration.

Comment [a199]: TKS

(ii) Documentation: Tax Invoice; Bill of Supply, Receipt Voucher, Payment Voucher, Refund Voucher, Debit Note, Credit Note. Harmonized System Nomenclature (HSN) of Goods, and Service Accounting Code (SAC) of Services; Nil rated supplies, Zero rated supplies, Exempted supplies & Non-GST supplies.

4. Input Tax Credit: Eligibility and conditions for taking input tax credit; Apportionment of input credit and blocked credit.

Comment [a200]: TKS

5. (i) GST Returns: GSTR 1, GSTR 2 and GSTR 3, Time and procedure of filing of Returns.

(ii) Payment of Tax: (a) Through Input Tax Credit (b) By cash/bank after generation of online Challan.

Comment [a201]: TKS

Course Code: UG BCOM-G-SEC-T-02A
Course Title: TAX RETURNS AND FILING OF TAX RETURNS
Skill Enhancement Course; Credit-2; Full Marks-50

COURSE OBJECTIVE:

To acquaint the students of the actual practice of filing Tax Returns so that in future they can opt for self-employment in Tax matters.

COURSE CONTENTS:

A. Returns under Income Tax (10 Marks)

1. PAN and TAN- Procedure for application of PAN/TAN.

2. (a) Payment of Advance Tax, and Self Assessment Tax.
- (b) Interest- Interest u/s 234A, 234B, 234C, (simple problems).
3. Filing of Returns- Due dates of filing of Returns- Section 139(1); Section 139(4) [after due date]; Section 139(5) [Revised Return]; Section 139(9) [Defective Return]; Section 142 (1) [Notice to submit Return]. Different types of Returns and Due dates for filing of those Returns.
4. Procedure of filing e-Return- ITR 1 only.

Comment [a202]: JD

B. Returns under Goods and Services Tax (10 Marks)

1. Different types of Taxable Persons and Returns to be submitted by them; Due dates for filing of Returns.
2. Procedure of filing e-Return- GSTR 1 and GSTR 4 only.

Comment [a203]: TKS

C. Practical on hard copy of ITR 1 (20 Marks).

Comment [a204]: JD, TKS

B.COM. (HONOURS) SEMESTER-I

Course Code: UG BCOM-H-CC-T-01 Course Title: FINANCIAL ACCOUNTING - 1

Core Course; Credit-6; Full Marks-75

Session 2020-2021 (July –Dec)

COURSE CONTENTS:

1. Introduction to Accounting

- (i) Meaning and objectives of Financial Accounting, Meaning of different types of accounting.
- (ii) Users of accounting information and their information needs.
- (iii) Accounting Concepts and Conventions: Entity, Money Measurement, Cost, Realisation, Periodicity, Going Concern, Accrual, Consistency, Conservatism, Materiality, Matching and Full Disclosures.
- (iv) Meaning of Accounting Theory, Relation of Accounting Theory with Practice, Generally Accepted Accounting Principles (GAAP).
- (v) Accounting Standards: Concept, Need, Benefits and Limitations of Accounting Standards, Types (Accounting Standards & Indian Accounting Standards) and names of Accounting Standards in India, Provision relating to mandatory application of Accounting Standards under Companies Act, 2013.
- (vi) Basic concept of IFRS.

Comment [a205]: JD

Comment [a206]: PN

2. Double entry book keeping system:

- (i) Basic Accounting Equation.
- (ii) Meaning and recognition of Assets, Liabilities, Equity, Income and Expenses (Framework for preparation and presentation of Financial Statements issued by the ICAI).
- (iii) Accounting Cycle - Journal, Ledger, Trial Balance and Financial Statements.

Comment [a207]: TKS

3. Basic Principles of preparing Final Accounts

- (i) Revenue recognition: Meaning of revenue and Revenue Recognition Criteria (AS 9).

Comment [a208]: TKS

(ii) Inventory: Meaning, Accounting Policy for measurement of Inventory, Ascertainment of cost of inventory, Cost Formula to be used (AS 2).

(iii) Property, Plant and Equipment: Meaning, Recognition and Derecognition of property, plant and equipment, Accounting treatment for sale or exchange of property, plant and equipment (AS 10).

Comment [a209]: PN

(iii) Depreciation: Meaning, Nature and Objective of Depreciation, Methods of computing Depreciation: Straight-line method, Diminishing balance method and Units of production method, Recognition of Depreciation Charge, Change in the method of depreciation, Depreciation in case of revision of Residual Value and Useful Life of asset (AS 10).

(iv) Provision and Reserves.

(v) Capital and Revenue (Expenditure and Income).

(vi) Concept of Capital and maintenance of capital, relation between capital and income.

(vii) Rectification of Errors, Adjusting Entries and Closing Entries.

4. (a) Final Accounts of Profit Seeking Organisation: Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship (Vertical and Horizontal Formats).

Comment [a210]: TKS

(b) Final Accounts of Not-for-Profit Organisation: Receipts and Payment Account, Income and Expenditure Account and Balance Sheet.

Comment [a211]: PN

5. Accounting from Incomplete Records (including Conversion into Double Entry system).

Comment [a212]: JD

6. Accounting for special sales transaction:

(a) Consignment: Recording in the books of Consignor – at cost & at invoice price, valuation of unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special commission, Del Credere Commission (with or without bad debt), Use of consignment debtors account, Recording in the books of Consignee.

(b) Joint Venture: Separate set of books and same set of books.

(c) Accounting for sales on approval.

Comment [a213]: SPC

Course Code: UG BCOM-H-CC-T-02
Course Title: PRINCIPLES OF MANAGEMENT
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept, Nature, Process and Significance of Management. Is Management a science or an Art or both?

Comment [a214]: PN, JD

2. Evolution of Management Thoughts: Contribution of Taylor, Fayol, Mayo, Follett, Weber, Neo-classical School, Modern School.

Comment [a215]: JD

3. Planning: Concept, Importance, Process & Types; Forecasting – Meaning, Importance and Techniques; Decision Making- Concepts and Steps in decision making.

4. Organising: Concept, Nature, Process, Organisation Structure, Delegation of Authority, Span of Management, Line & Staff Authority.

Comment [a216]: TKS

5. Motivation: Concept, Importance of Motivation, Theories- Maslow, Herzberg, McGregor.

Comment [a217]: PN

6. Leadership: Concept, Leadership Styles –Laissez-Faire, Autocratic, Participative, Transactional & Transformational; Leadership Models– Tannenbaum and Schmidt, Blake and Mouton.

Comment [a218]: TKS

7. Communication: Concept, Nature, Process, Types, Importance and Barriers.

Comment [a219]: JD

8. Control: Concept, Importance, Features, Process, Tools & Techniques.

9. Co-ordination: Meaning, Importance, Principle & Techniques.

Comment [a220]: SPC

Course Code: UG BCOM-H-GE-T-01
Course Title: MICRO ECONOMICS
Generic Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Demand and Supply

Concept of demand, Demand function, Law of Demand and its exceptions, Derivation of individual and market demand curves, Elasticity of demand– price elasticity – relation between slope of demand and elasticity of demand– concepts of income and cross price elasticity of demand. Supply function and equilibrium.

2. Consumer Behaviour

Concepts of cardinal and ordinal utility, Indifference curve analysis, Consumer equilibrium using indifference curve and budget constraint –graphical approach.

3. Production and Cost

Production Function – Short run and long run –Law of variable proportions, Concepts of total productivity, average productivity and marginal productivity, Producer equilibrium through isoquants and isocosts – economies and diseconomies of large scale of production and Returns to scale.

Cost Analysis– Fixed and variable cost, Explicit and Implicit costs, Marginal and average costs, Short–run and Long–run cost curves.

4. Perfect Competition

Perfect Competition-Features; Marginal and Average Revenue under Perfect competition; Profit maximization, Equilibrium of firm and industries, Short run and long run supply curves.

5. Imperfect Competition

Monopoly-Features; Marginal and Average Revenue under Imperfect competition; Price and output determination under monopoly, Price discrimination– Degrees of price discrimination; Social cost of Monopoly- concepts only.

Monopolistic competition-Features and examples; Oligopoly – Concepts of collusive and non-collusive oligopoly, Non-collusive Oligopoly- Price competition and Sweezy model, Collusive Oligopoly – Cartel.

Comment [a221]: AKB

B.COM. (GENERAL) SEMESTER-I
Course Code: UG BCOM-G-CC-T-01
Course Title: FINANCIAL ACCOUNTING - 1
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction to Accounting

(i) Meaning and objectives of Financial Accounting, Meaning of different types of accounting.

(ii) Users of accounting information and their information Needs.

(iii) Accounting Concepts and Conventions: Entity, Money Measurement, Cost, Realisation, Periodicity, Going Concern, Accrual, Consistency, Conservatism, Materiality, Matching and Full Disclosures.

(iv) Meaning of Accounting Theory, Relation of Accounting Theory with Practice, Generally Accepted Accounting Principles (GAAP).

(v) Accounting Standards: Concept, Need, Benefits and Limitations of Accounting Standards, Types (Accounting Standards & Indian Accounting Standards) and names of Accounting Standards in India.

(vi) Basic concept of IFRS.

Comment [a222]: JD

Comment [a223]: PN

2. Double entry book keeping system:

(i) Basic Accounting Equation.

(ii) Meaning and recognition of Assets, Liabilities, Equity, Income and Expenses (Framework for preparation and presentation of Financial Statements issued by the ICAI).

(iii) Accounting Cycle - Journal, Ledger, Trial Balance and Financial Statements.

Comment [a224]: TKS

3. Basic Principles of preparing Final Accounts

(i) Revenue recognition: Meaning of revenue and Revenue Recognition Criteria (AS 9).

(ii) Inventory: Meaning, Accounting Policy for measurement of Inventory, Ascertainment of cost of inventory, Cost Formula to be used (AS 2),

(iii) Property, Plant and Equipment: Meaning, Recognition and Derecognition of property, plant and equipment, Accounting treatment for sale or exchange of property, plant and equipment (AS 10).

Comment [a226]: PN

(iii) Depreciation: Meaning, Nature and Objective of Depreciation, Methods of computing

Depreciation: Straight-line method, Diminishing balance method and Units of production method, Recognition of Depreciation Charge, Change in the method of depreciation, Depreciation in case of revision of Residual Value and Useful Life of asset.

(iv) Provision and Reserves

(v) Capital and Revenue (Expenditure and Income)

(vi) Concept of Capital and maintenance of capital, relation between capital and income.

(vii) Rectification of Errors, Adjusting Entries and Closing Entries.

4. (a) Final Accounts of Profit Seeking Organisations: Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship (Vertical and Horizontal Formats)

Comment [a227]: TKS

(b) Final Accounts of Not-for-Profit Organisations: Receipts and Payment Account, Income and

Expenditure Account and Balance Sheet.

5. Accounting from Incomplete Records (excluding Conversion into Double Entry system)
6. Accounting for special sales transaction:
 - (a) Consignment: Recording in the books of Consignor – at cost & at invoice price, valuation of unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special commission, Del Credere Commission (with or without bad debt) Use of consignment debtors a/c. Recording in the books of Consignee.
 - (b) Joint Venture: Separate set of books and Same set of books.
 - (c) Accounting for sales on approval.

Comment [a228]: PN

Comment [a229]: JD

Comment [a230]: SPC

Course Code: UG BCOM-G-CC-T-02
Course Title: PRINCIPLES OF MANAGEMENT
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept, Nature, Process and Significance of Management. Is Management a science or an Art or both?
2. Evolution of Management Thoughts: Contribution of Taylor, Fayol, Mayo, Follett, Weber, Neo-classical School, Modern School.
3. Planning: Concept, Importance, Process & Types; Forecasting – Meaning, Importance and Techniques; Decision Making- Concepts and Steps in decision making.
4. Organising: Concept, Nature, Process, Organisation Structure, Delegation of Authority, Span of Management, Line & Staff Authority.
5. Motivation: Concept, Importance of Motivation, Theories- Maslow, Herzberg, McGregor.
6. Leadership: Concept, Leadership Styles –Laissez-Faire, Autocratic, Participative, Transactional & Transformational; Leadership Models– Tannenbaum and Schmidt, Blake and Mouton.
7. Communication: Concept, Nature, Process, Types, Importance and Barriers.
8. Control: Concept, Importance, Features, Process, Tools & Techniques.
9. Co-ordination: Meaning, Importance, Principle & Techniques.

Comment [a231]: PN, JD

Comment [a232]: JD

Comment [a233]: TKS

Comment [a234]: TKS

Comment [a235]: PN

Comment [a236]: TKB

Comment [a237]: JD

Comment [a238]: SPC

Comment [a239]: SPC

B.COM. (HONOURS)
SEMESTER-III
Course Code: UG BCOM-H-CC-T-05
Course Title: FINANCIAL ACCOUNTING - 2
Core Course; Credit-6; Full Marks-75
Session 2020-2021 (July-Dec)

COURSE CONTENTS:

9. Partnership Accounts:

- (d) Profit and Loss Appropriation Account; Capital & Current A/C; Guarantee – by firm, by partner and both; Correction of appropriation items with retrospective effect.
- (e) Changes in constitution of firm – Change in profit sharing ratio, Admission, Retirement, Retirement cum Admission—treatment of Goodwill, revaluation of assets and liabilities, treatment of reserves and adjustment relating to capital; treatment of Joint Life Policy, Death of a Partner.
- (f) Dissolution of Firm – including piecemeal distribution.

Comment [a240]: JD

10. Branch Accounting:

Synthetic Method: Preparation of Branch account, Branch Trading and P/L account (at cost & at Invoice Price) - normal and abnormal losses.

Analytical Method: Preparation of Branch stock adjustment account (at cost & at Invoice Price)- normal and abnormal losses.

Independent branch – concept of wholesale profit.

Comment [a241]: PN

11. Hire Purchase and Instalment Payment system:

Recording of Transactions in the books of buyer –Allocation of interest – Use of Interest Suspense Account—Partial and Complete Repossession.

Books of seller – Stock and Debtor Account (with repossession).

Books of Seller – H.P. Trading Account (with repossession).

Basic Concept of Operating and Financial lease (AS 19).

Comment [a242]: TKS

12. Departmental Accounts:

Appropriation of common cost, Preparation of Departmental Trading and P/L Account. Consolidated Trading and P/L Account; inter departmental transfer of goods at cost, cost plus and at selling price and elimination of unrealized profit.

Comment [a243]: TKS

13. Introduction to Company Accounts: Meaning of Company and its Classification; Books of Accounts; Maintenance of Books of Accounts; Financial Year; Financial Statements – Meaning, Forms & Contents; Concept of True and Fair View, Authentication of Financial Statements; Filing of Financial Statements.

Comment [a244]: PN

14. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture, Reissue and Buy-Back of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures, Employees' Stock Option Scheme (ESOS) and Employees' Stock Purchase Scheme (ESPS).

Comment [a245]: PN

15. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures –treatment of brokerage, cum & ex-interest and cum & ex-dividend, transfer of securities; Valuation of Investment as per Accounting Standard AS 13.

Comment [a246]: SPC

16. Insurance claim for Loss of Stock and Loss of Profit (simple type).

Comment [a247]: SPC

Course Code: UG BCOM-H-CC-T-06

Course Title: INCOME TAX LAW

Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

6. (a) Basic Concepts and Definitions under Income Tax Act, 1961: Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning

Comment [a248]: PN

(b) Residential Status of an individual and Incidence of Tax

Comment [a249]: JD

(c) Fully Exempted income of an Individual

Comment [a250]: TKS

(d) **Agricultural Income:** Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income.

Comment [a251]: TKS

7. Heads of Income and Provisions governing Heads of Income:

(a) **Income from Salaries**

Comment [a252]: PN

(b) **Income from House Property**

Comment [a253]: JD

(c) **Profits and Gains from Business or Profession:** Special emphasis on section 28, 32, 35, 35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B.

Comment [a254]: TKS

(d) **Capital Gain:** Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, exemptions u/s 54, 54B, 54D, 54EC and 54F, Taxability of Short Term Capital Gain and Long Term Capital Gain.

Comment [a255]: TKS

(e) **Income from Other Sources** (excluding Dividend): Basic concepts.

Comment [a256]: TKS

8. (a) Income of other Persons included in Assessee's Total Income: Section 60 to 65

(d) **Set off and Carry Forward of Losses:** Mode of Set off and Carry Forward, Inter Source and Inter Head Adjustment, Carry forward and set off of losses u/s 71, 72, 73, 74, 74A.

(e) **Deductions from Gross Total Income:** Basic concepts -deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80GGA, 80GGC, 80QQB, 80RRB, 80TTA, 80U.

Comment [a257]: JD

9. Computation of Total Income and Tax Liability of an Individual.

Comment [a258]: TKS

10. **Assessment of Income:** Self-Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147.

Comment [a259]: JD

Course Code: UG BCOM-H-CC-T-07
Course Title: HUMAN RESOURCE MANAGEMENT
Core Course; Credit-6; Full Marks-75

Module I

COURSE CONTENTS:

6. **Nature and Scope:** Concept and meaning of Human Resource Management, Understanding the Nature and Scope of HRM, Functions and importance.

Comment [a260]: JD

7. **Human Resource Planning:** Definition, Need and Features of Human Resource Planning, factor affecting Human Resource Planning.

Comment [a261]: TKS

8. **Recruitment and Selection:** Definition of Recruitment, Sources, need and importance of Recruitment, Recruitment Policy – Process, sources of Recruitment. Definition of Selection, Steps of selection.

Comment [a262]: TKS

9. **Training and Development:** Training and Development-Meaning and purpose of training, Benefits of Training to organization and employees. Training methods.

Comment [a263]: SPC

10. **Job Evaluation and Performance Appraisal:** Job Evaluation – objective, scope, methods,

Comment [a264]: SPC

Job analysis, Job description, Job Specification- basic concepts and significance. Performance Appraisal - Concept.

Course Code: UG BCOM-H-GE-T-03
Course Title: MACRO ECONOMICS
Generic Course; Credit-6; Full Marks-75

COURSE CONTENTS:

6. Introduction

Macroeconomics- Concept, Difference with microeconomics, Concept of basic variables of macroeconomics.

7. National Income Accounting

Concepts and measurement of National Income, Circular flow of income, Real and nominal GDP, GDP deflator, Alternative approaches of measuring national income – Income method, Expenditure method, Value-added method; Difficulties in Measurement of NI.

8. Determination of Equilibrium Level of Income

Simple Keynesian Model, Consumption, Savings and Investment Function, Concept of multiplier – Government expenditure multiplier and Tax multiplier, Investment multiplier and Balanced budget multiplier.

9. Commodity Market and Money Market Equilibrium

Concept of commodity market and money market equilibrium, Demand and supply of money – Transaction demand of money and speculative demand of money, Derivation of IS and LM curves, Shifts of IS & LM curves, Monetary and Fiscal policy in ISLM.

10. Money and Inflation

Measures of money supply; Quantity Theory of Money; Concept of inflation, Demand-pull and cost-push inflation, Inflationary gap; Effects of Inflation; Monetary and fiscal policies to control inflation.

Comment [a265]: AKB

Course Code: UG BCOM-H-SEC-T+P-01A

Course Title: E-COMMERCE AND COMPUTER APPLICATIONS IN BUSINESS
Skill Enhancement Course; Credit-2; Full Marks-50

COURSE CONTENTS:

5. Introduction - Limitation of conventional commerce, Origin of E-Commerce, Evolution of E-Commerce, E-Commerce and E-Business, Definition of E-Commerce, Features of E-Commerce, M-Commerce-The concept- How it is done- Purposes of use.

Comment [a266]: JD

6. Models of E-Commerce- Concepts and examples Business - to - Business (B2B), Business - to - Consumer (B2C), Consumer - to - Consumer (C2C), Consumer - to - Business (C2B), Business - to - Government (B2G), Government - to - Business (G2B), Government - to - Citizen (G2C).

Comment [a267]: JD

7. Digital Money Transactions

Methods of e-payments [Debit Card, Credit Card, Smart Cards, e-Money], electronic or digital wallet, digital signature (procedures, working and legal provisions), payment gateways[Core Banking Solution or CBS, Mobile Payment, UPI, NCPI, International Payments], Online banking [meaning, concepts, importance, electronic fund transfer, automated clearinghouse, automated

Comment [a268]: TKS

ledger posting]; Risks involved in e-payments.

8. E-Commerce in India

Comment [a269]: TKS

Module II COMPUTER APPLICATIONS IN BUSINESS (Practical)

COURSE CONTENTS:

Accounting and Related Software

3. Tally (Current Version):

Comment [a270]: TKS

(f) Creation of Masters- Creation of Company, Creation of Ledgers, Creation of Stock Items, Creation of Manufacturing voucher type.

(g) Activation of GST option, Activation of Debit Note / Credit Note.

(h) Passing of Accounting Voucher Entries (including inventory and GST) in – (i) Receipt, (ii) Payment, (iii) Contra, (iv) Purchase, (v) Sales, (vi) Debit Note, (vii) Credit Note, and (viii) Journal, modes.

(i) Passing of Inventory Voucher Entries- Manufacturing type.

(j) Preparation of Bank Reconciliation Statement.

4. Excel

Comment [a271]: JD

(h) Insertion and deletion of Column/ Row/ Sheet.

(i) Change of Column Width.

(j) Freezing of Column & Row.

(k) Sorting- Single column and Multi Column (i.e. data base).

(l) Linking of one cell with another in the same sheet/ another sheet.

(m) Autosum and Formula copy with fill handle.

(n) Preparation of Chart- Column Chart, Bar Chart, Pie Chart, and Line Chart.

B.COM. (GENERAL) SEMESTER-III Course Code: UG BCOM-G-CC-T-07 Course Title: FINANCIAL ACCOUNTING - 2 Core Course; Credit-6; Full Marks-75 Session 2020-2021 (July-Dec)

COURSE CONTENTS:

1. Insurance Claim for Loss of Stock (simple problem).

Comment [a272]: SPC

2. Partnership Accounts:

Comment [a273]: JD

(a) Profit and Loss Appropriation accounts; Capital & Current A/C; Guarantee – by firm, by partner and both; Correction of appropriation items with retrospective effect.

(b) Changes in constitution of firm – Change in profit sharing ratio, Admission, Retirement, Retirement cum Admission—treatment of Goodwill, revaluation of assets and liabilities, treatment of reserves and adjustment relating to capital; treatment of Joint Life Policy, Death of a Partner.

(c) Dissolution of Firm – excluding piecemeal distribution.

3. Branch Accounting:

Comment [a274]: PN

Synthetic Method: Preparation of Branch account, Branch Trading and P/L account (at cost & at Invoice Price)- normal and abnormal losses.

Analytical Method: Preparation of Branch stock adjustment account (at cost & at Invoice Price)- normal and abnormal losses.

4. Hire purchase and installment payment system:

Recording of Transactions in the books of buyer – Allocation of interest – Use of Interest Suspense Account—Partial and Complete Repossession.
Books of seller – Stock and Debtor Account (with repossession).

Comment [a275]: TKS

5. Departmental Accounts:

Appropriation of common cost; preparation of Departmental Trading and P/L Account. Consolidated Trading and P/L Account; inter departmental transfer of goods at cost, cost plus and at selling price and elimination of unrealized profit.

Comment [a276]: TKS

6. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures – treatment of brokerage, cum & ex-interest and cum & ex-dividend, transfer of securities. (Simple Problems).

Comment [a277]: SPC

B.COM. (GENERAL) SEMESTER-III**Course Code: UG BCOM-G-CC-T-08****Course Title: INCOME TAX LAW****Core Course; Credit-6; Full Marks-75**

COURSE CONTENTS:

1. (a) Basic Concepts and Definitions under Income Tax Act, 1961: Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning.

Comment [a278]: PN

(b) Residential Status of an individual and Incidence of Tax.

Comment [a279]: JD

(c) Fully Exempted income of an Individual.

Comment [a280]: TKS

(d) Agricultural Income: Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income.

Comment [a281]: TKS

2. Heads of Income and Provisions governing Heads of Income:

(a) Income from Salaries.

Comment [a282]: PN

(b) Income from House Property.

Comment [a283]: JD

(c) Profits and Gains from Business or Profession: Special emphasis on section 28, 32, 35, 35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B.

Comment [a284]: TKS

(d) Capital Gain: Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, Taxability of Short Term Capital Gain and Long Term Capital Gain.

Comment [a285]: TKS

(e) Income from Other Sources (excluding Dividend): Basic concepts.

Comment [a286]: TKS

3. Deductions from Gross Total Income: Basic concepts - deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80TTA, 80U.

Comment [a287]: JD

4. Computation of Total Income and Tax Liability of an Individual.

Comment [a288]: TKS

5. Assessment of Income: Self Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147. If any new provisions are enacted in place of the existing provisions, the syllabus will stand modified accordingly with effect from such date as may be prescribed by UNIVERSITY OF KALYANI.

Comment [a289]: JD

B.COM. (GENERAL) SEMESTER-III**Course Code: UG BCOM-G-SEC-T+P-01A****Course Title: E-COMMERCE AND COMPUTER APPLICATIONS IN BUSINESS****Skill Enhancement Course; Credit-2; Full Marks-50**

Module I

E-COMMERCE (Theory)

COURSE OBJECTIVE:

The objective is to enable the student to become familiar with the mechanism for conducting business

transactions through electronic means.

COURSE CONTENTS:

1. Introduction - Limitation of conventional commerce, Origin of E-Commerce, Evolution of E-Commerce, E-Commerce and E-Business, Definition of E-Commerce, Features of E-Commerce, M-Commerce-The concept- How it is done- Purposes of use.

Comment [a290]: JD

2. Models of E-Commerce- Concepts and examples Business - to - Business (B2B), Business - to - Consumer (B2C), Consumer - to - Consumer (C2C), Consumer - to - Business (C2B), Business - to - Government (B2G), Government - to - Business (G2B), Government - to - Citizen (G2C).

Comment [a291]: JD

3. E-CRM and SCM

E-CRM-definition, features, goals of E-CRM business framework, phases of E-CRM, types of E- CRM, Functional components of E-CRM, strategies for E-CRM solutions; SCM-definition, features, types of supply chain.

Comment [a292]: JD

4. Digital Money Transactions

Methods of e-payments [Debit Card, Credit Card, Smart Cards, e-Money], electronic or digital wallet, digital signature (procedures, working and legal provisions), payment gateways[Core Banking Solution or CBS, Mobile Payment, UPI, NCPI, International Payments], Online banking [meaning, concepts, importance, electronic fund transfer, automated clearinghouse, automated ledger posting]; Risks involved in e-payments.

5. E-Commerce in India.

Comment [a293]: TKS

Module II

COMPUTER APPLICATIONS IN BUSINESS (Practical)

COURSE OBJECTIVE:

The objective is to provide basic knowledge and skills of computer.

COURSE CONTENTS:

Accounting and Related Software

1. Tally (Current Version):

Comment [a294]: TKS

(a) Creation of Masters- Creation of Company, Creation of Ledgers, Creation of Stock Items, Creation of Manufacturing voucher type.

(b) Activation of GST option, Activation of Debit Note / Credit Note.

(c) Passing of Accounting Voucher Entries (including inventory and GST) in – (i) Receipt, (ii) Payment, (iii) Contra, (iv) Purchase, (v) Sales, (vi) Debit Note, (vii) Credit Note, and (viii) Journal, modes.

(d) Passing of Inventory Voucher Entries- Manufacturing type.

(e) Preparation of Bank Reconciliation Statement.

2. Excel

Comment [a295]: JD

(a) Insertion and deletion of Column/ Row/ Sheet.

(b) Change of Column Width.

(c) Freezing of Column & Row.

(d) Sorting- Single column and Multi Column (i.e. data base).

(e) Linking of one cell with another in the same sheet/ another sheet.

(f) Autosum and Formula copy with fill handle.

(g) Preparation of Chart- Column Chart, Bar Chart, Pie Chart, and Line Chart.

B.COM. (HONOURS)

SEMESTER-V

Course Code: UG BCOM-H-CC-T-11

Course Title: CORPORATE ACCOUNTING
Core Course; Credit-6; Full Marks-75
Session 2020-2021 (July-Dec)

COURSE CONTENTS:

1. **Schedule III (Division I)** to the Companies Act, 2013.
2. **Final Accounts of Companies:** Preparation of Statement of Profit & Loss and Balance Sheet as per Schedule III (Division I) to the Companies Act, 2013.
3. **Redemption of Preference Shares and Debentures.**
4. **Accounting of Limited Liability Partnership.**
5. **Reconstruction of Companies:** Meaning of Internal and External Reconstruction of companies, Concept of and accounting for Amalgamation as per Accounting Standard - 14, excluding inter-company holdings); Accounting for Internal Reconstruction (excluding preparation of scheme of reconstruction).
6. **Valuation:** Valuation of Goodwill and Shares.
7. **Holding Company:** Preparation of Consolidated Balance Sheet as per Accounting Standard - 21 (excluding problems on chain and cross holding).

Comment [a296]: JD

Comment [a297]: JD

Comment [a298]: SPC/PN

Comment [a299]: TKS

Comment [a300]: TKS

Comment [a301]: TKS

Comment [a302]: PN

Course Code: UG BCOM-H-CC-T-12

Course Title: AUDITING

Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction:** Definition of Audit, Difference between audit and assurance, concept and objectives of independent financial audit, Types of audit- Internal audit, Independent financial audit, Cost audit, Tax audit, Management audit, Secretarial audit. Types of tests- Substantive test and Compliance test, Concept of 'true & fair' and 'materiality'.
2. **Internal Control:** Concept of- Internal check, Internal control, and Internal financial control. Importance of Internal check & Internal control for the purpose of audit. Questionnaire for verification of Internal control. Provision of the Companies Act 2013 in relation to Internal financial controls- (i) Explanation- Section 134(5)(e); (ii) Reporting requirement- 143(3)(i).
3. **Vouching & Verification** (Substantive Test): Vouching- Meaning, Objectives-Vouching of different items (Receipts and Payments related). Verification- Concept & Objectives; Verification of Share Capital, Loans (secured and unsecured), Fixed assets (Building, Plant and Machinery), Loans and Advances, Investment, Goodwill, Copy Right, Patent Right, Inventories, Debtors, Creditors.
4. **Audit of Limited Companies:** Appointment (section 139), removal & resignation of auditors (section 140), Eligibility, Qualifications and disqualifications of auditors (section 141), Remuneration of auditors (section 142), Mandatory compliance of Auditing Standards [Section 143 (9) & (10)].
5. **Auditors' Report:** Definition; Distinction between Report and Certificate; Types of Opinion-

Comment [a303]: JD

Comment [a304]: SPC

Comment [a305]: SPC

Comment [a306]: PN

Comment [a307]: PN

(i) Unmodified or Clean, (ii) Qualified, (iii) Negative (iv) Disclaimer; Format of audit report (SA 700, SA 705 & SA 706).

Course Code: UG BCOM-H-DSE-T-01A

Course Title: BUSINESS COMMUNICATION AND ENTREPRENEURSHIP DEVELOPMENT

Discipline Specific Course; Credit-6; Full Marks-75

Module I

BUSINESS COMMUNICATION

COURSE CONTENTS:

1. **Business Communication:** Introduction, Definition, Objectives, Importance, Elements, Types of Communication – Formal and informal, Level of Analysis of Business Communication, Principles of Effective Communication.
2. Significance of Communication, Business Productivity, Inter Group and Intra-Group Conflict, Conflict Resolution and Group Cohesiveness.
3. **Management Information System (MIS):** Definition, Elements, Need, Function, Use of IT in MIS (Conceptual), Role of MIS in Decision Making, Decision Support System (DSS).
4. **Tools of Communication:** Emergence of Communication Technology, Modern forms of Communication, Fax, E-Mail, and Video Conferencing.
5. **Practice in Effective Communication:** Drafting Notice, Circular, Minute, Resolution, Report, CV writing, Business Letter Writing, Office Letter, Status Enquiry, Quotation Order Confirmation, Execution, Refusal and Cancellation of Order, Recommendation, Credit Collection, Claim, Bank Loan.

Comment [a308]: SPC

Module II

ENTREPRENEURSHIP DEVELOPMENT

COURSE CONTENTS:

1. **Introduction:** Meaning and Concept of Entrepreneurship, Elements, Determinants and Importance of Entrepreneurship, Role and Creativity, Characteristics, Function and Qualities of Entrepreneur.
2. **Entrepreneurship Roles in Different Business Environment:** Small, Micro & Medium Business Enterprises, Family Venture, Corporate Entrepreneurship, Role of Government as Entrepreneur.
3. **Entrepreneur and Law:** Legal protection of innovations-Patents, Trademarks and Copyrights-Intellectual Property Right.
4. **Financing of New Ventures:** Methods of Financing Equity Financing, Venture Capital Debt Financing and Governmental Grants.
5. **Project Planning and Feasibility Studies:** Methods of preparation of Project Plans and conducting Feasibility Studies.

Comment [a309]: TKS

Course Code: UG BCOM-H-DSE-T-02A

Course Title: ACCOUNTING FOR LOCAL BODIES

Discipline Specific Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction:** Concept of local bodies; Salient features of 73rd Amendment of the Constitution in 1992, Article 243J- Audit of Accounts.
2. **Provisions related to Accounts in the West Bengal Panchayat Act, 1973:** Some important provisions of – (a) West Bengal Panchayat (Zilla Parishad and Panchayat Samiti) Accounts and Finance Rules 2003, (b) West Bengal Panchayat (Gram Panchayat Accounts, Audit and Budget) Rules 2007.
3. **Financial Statements of Municipalities:** Balance Sheet, Income & Expenditure Account, Statement of Cash Flows, Receipts and Payments Account, and Notes to Accounts (Refer National Municipal Accounts Manual, 2004);
Important contents of the Accounting Manual for Urban Local Bodies, 2006, of the Govt. of West Bengal: **Part 1:** Introduction to Double Entry Accrual- based Accounting Para 4- New Accounting System (i.e. double entry accrual system of accounting); Para 6- Accounting Documents; Para 7- Financial Statements; Para 9- Fundamental Accounting Assumptions. **Part 5:** Forms and Formats.
4. **Accounting Standards:** Overview of Accounting Standards for Local Bodies issued by the Institute of Chartered Accountants of India.
5. **Financial Statements of PRIs (Panchayat Raj Institutions) and Municipalities:** problem solutions; Software for Preparation of Financial Statements.

Comment [a310]: JD

Comment [a311]: SPC

Comment [a312]: TKS

Comment [a313]: TKS

Note- Evaluation of Answer Scripts is to be made by internal teachers of concerned college.

B.COM. (GENERAL) SEMESTER-V**Course Code: UG BCOM-G-DSE-T-01A****Course Title: BUSINESS COMMUNICATION AND ENTREPRENEURSHIP DEVELOPMENT****Discipline Specific Course; Credit-6; Full Marks-75 Module I****Session 2020-2021 (July-Dec)****BUSINESS COMMUNICATION**

Comment [a314]: SPC

COURSE CONTENTS:

1. Business Communication: Introduction, Definition, Objectives, Importance, Elements, Types of Communication – Formal and informal, Level of Analysis of Business Communication, Principles of Effective Communication.
2. Significance of Communication, Business Productivity, Inter Group and Intra-Group Conflict, Conflict Resolution and Group Cohesiveness.
3. Management Information System (MIS): Definition, Elements, Need, Function, Use of IT in MIS (Conceptual), Role of MIS in Decision Making, Decision Support System (DSS).
4. Tools of Communication: Emergence of Communication Technology, Modern forms of Communication, Fax, E-Mail, and Video Conferencing.
5. Practice in Effective Communication: Drafting Notice, Circular, Minute, Resolution, Report, CV writing, Business Letter Writing, Office Letter, Status Enquiry, Quotation Order Confirmation, Execution, Refusal and Cancellation of Order, Recommendation, Credit Collection, Claim, Bank Loan.

Module II

ENTREPRENEURSHIP DEVELOPMENT

Comment [a315]: TKS

The objective is to orient the learner toward entrepreneurship as a career option and creative thinking and behaviour.

COURSE CONTENTS:

1. Introduction: Meaning and Concept of Entrepreneurship, Elements, Determinants and Importance of Entrepreneurship, Role and Creativity, Characteristics, Function and Qualities of Entrepreneur.
2. Entrepreneurship Roles in Different Business Environment: Small, Micro & Medium Business Enterprises, Family Venture, Corporate Entrepreneurship, Role of Government as Entrepreneur.
3. Entrepreneur and Law: Legal protection of innovations-Patents, Trademarks and Copyrights-Intellectual Property Right.
4. Financing of New Ventures: Methods of Financing Equity Financing, Venture Capital Debt Financing and Governmental Grants.
5. Project Planning and Feasibility Studies: Methods of preparation of Project Plans and conducting Feasibility Studies.

Course Code: UG BCOM-G-DSE-T-02A**Course Title: ACCOUNTING FOR LOCAL BODIES****Discipline Specific Course; Credit-6; Full Marks-75**

COURSE CONTENTS:

1. Introduction: Concept of local bodies; Salient features of 73rd Amendment of the Constitution in 1992, Article 243J- Audit of Accounts.
2. Provisions related to Accounts in the West Bengal Panchayat Act, 1973: Some important provisions of – (a) West Bengal Panchayat (Zilla Parishad and Panchayat Samiti) Accounts and Finance Rules 2003, (b) West Bengal Panchayat (Gram Panchayat Accounts, Audit and Budget) Rules 2007.
3. Financial Statements of Municipalities: Balance Sheet, Income & Expenditure Account, Statement of Cash Flows, Receipts and Payments Account, and Notes to Accounts (Refer National Municipal Accounts Manual, 2004); Important contents of the Accounting Manual for Urban Local Bodies, 2006, of the Govt. of West Bengal: Part 1: Introduction to Double Entry Accrual- based Accounting Para 4- New Accounting System (i.e. double entry accrual system of accounting); Para 6- Accounting Documents; Para 7-

Comment [a316]: JD

Financial Statements; Para 9- Fundamental Accounting Assumptions. Part 5: Forms and Formats.

Comment [a317]: TKS

4. Accounting Standards: Overview of Accounting Standards for Local Bodies issued by the Institute of Chartered Accountants of India.

Comment [a318]: TKS

5. Financial Statements of PRIs (Panchayat Raj Institutions) and Municipalities: problem solutions; Software for Preparation of Financial Statements.

Note- Evaluation of Answer Scripts is to be made by internal teachers of concerned college.

Comment [a319]: TKS

B.COM. (GENERAL) SEMESTER-V
Course Code: UG BCOM-G-GE-T-01
Course Title: BUSINESS MATHEMATICS AND STATISTICS
Generic Course; Credit-6; Full Marks-75

Module I **BUSINESS MATHEMATICS**

Comment [a320]: SS

COURSE CONTENTS:

1. (A) Logarithm: Meaning of Logarithm, General properties of Logarithm, Common Problems.
 (B) Laws of Indices.
2. (A) A.P. Series: Definition, Common difference, General term, A.M., Sum of first n terms of an A.P., Sum of an infinite A.P. Series.
 (B) G.P. Series: Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P., Sum of an infinite G.P. Series.
 (C) Compound Interest & Annuities: Different types of interest rates; Concept of Present Value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds.
3. Functions, Limit, Continuity and Differentiation – Simple Problem (Without trigonometric application)

Module II **STATISTICS**

Comment [a321]: SJS

COURSE CONTENTS:

1. Statistical Data and Descriptive Statistics
 (A) Statistical Data: Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties.
 (B) Diagrammatic representation: Histogram, Frequency Polygon, Ogive, Pie chart, Line and Bar diagram.
 (C) Different Measures of Central Tendency: Arithmetic Mean, Geometric Mean and Harmonic Mean, Median, Mode and Quartiles.
 (D) Different Measures of Dispersion: Common measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Measures of relative dispersion.
2. Simple Correlation and Regression Analysis
 (A) Correlation Analysis: Scatter diagram; Pearson's co-efficient of correlation; Rank Correlation.
 (B) Regression Analysis: Regression equations and estimation [Elementary level].
3. Index Numbers: Meaning and uses of index numbers; Construction of index numbers: fixed and chain base, Problems relating to construction of index numbers, Construction of consumer price indices.

B.COM. (GENERAL) SEMESTER-V
Course Code: UG BCOM-G-SEC-T-03A
Course Title: CORPORATE ACCOUNTING AND FINANCIAL MANAGEMENT
Skill Enhancement Course; Credit-2; Full Marks-50

COURSE CONTENTS:

1. Introduction to Company Accounts: Meaning of Company and its Classification; Books of Accounts; Maintenance of Books of Accounts; Financial Year; Financial Statements – Meaning, Forms & Contents; Concept of True and Fair View, Authentication of Financial Statements; Filing of Financial Statements.
2. Final Accounts of Companies: Preparation of Statement of Profit & Loss and Balance Sheet as per Schedule III to the Companies Act, 2013.
3. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture, Reissue of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures; Redemption of Preference Shares.
4. Sources of Finance and Cost of Capital: Different sources of finance - long term and short term sources. Cost of capital- concept, relevance of cost of capital, specific costs and weighted average cost, rationale of after tax weighted average cost of capital, marginal cost of capital.
5. Working Capital and Its Management: Meaning, concept, composition, nature, types of working capital, Determining factors of working capital, Working Capital Cycle, Estimation of working capital requirements (excluding problems on extra shift working capital and working capital policy). Working Capital Management– Importance of working capital management, Working capital financing – Long-term, medium and short-term.
6. Cash Flow Statement: Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. Cash flow statement – Various sources and uses of cash – Preparation of cash flow statement.
7. Valuation: Valuation of Goodwill and Shares (Simple Problem).

Comment [a322]: PN

Comment [a323]: JD

Comment [a324]: SPC

Comment [a325]: JD

Comment [a326]: SPC

Comment [a327]: TKS

Comment [a328]: TKS

B.COM. (HONOURS) SEMESTER-II
Course Code: UG BCOM-H-CC-T-03
Course Title: MARKETING MANAGEMENT
Core Course; Credit-6; Full Marks-75
Session 2020-2021 (Jan –June)

COURSE CONTENTS:

1. Introduction: Nature and scope of marketing; Evolution of Marketing concepts; Selling vs. marketing; Marketing mix; Marketing environment.
2. Consumer Behaviour and Market Segmentation: Nature, scope and significance of consumer behaviour; Market segmentation – concept and importance; Bases for market segmentation.
3. Product: Concept of product, consumer, and industrial goods; Packaging and labeling; function, Product life cycle concept.
4. Price and Promotion: Importance of price in the marketing mix; Factors affecting price of a product. Pricing policies and strategies; Methods of promotion; Advertising, Personal selling; Sales Promotion.
5. Distribution and Retailing: Distribution channels – concept and role; Types of distribution channels; Types of retailing – store based and non-store based retailing, chain stores, specialty stores, supermarkets; Retailing in India.

Comment [a329]: JD

Comment [a330]: JD

Comment [a331]: PN

Comment [a332]: PN

Comment [a333]: JD

Course Code: UG BCOM-H-CC-T-04
Course Title: BUSINESS LAWS
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. The Indian Contract Act, 1872
 - (a) Contract – meaning, characteristics and kinds, Essentials of a valid contract.
 - (b) Offer and acceptance (Definition, Rules, Communication and Revocation of offer and acceptance).

- (c) Consideration (Definition, Elements, Types, Rules), “No Consideration No Contract” and its exceptions; Capacity to Parties (Definition and Types).
- (d) Consent, Free consent, Coercion, Undue Influence, Fraud, Misrepresentation, Mistake.
- (e) Legality of objects and Consideration.
- (f) Void and Voidable agreements – Definition, Types and Distinction.
- (g) Discharge of a contract – Modes of discharge, Breach and Remedies against breach of contract.
- (h) Specific Contracts - Contingent contracts, Quasi, Contract of Indemnity, Guarantee, Bailment, Pledges.

Comment [a334]: JD

2. The Sale of Goods Act, 1930

- (a) Contract of sale, meaning and difference between sale and agreement to sell.
- (b) Conditions and warranties.
- (c) Transfer of ownership in goods including sale by a non-owner.
- (d) Performance of contract of sale.
- (e) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

Comment [a335]: SPC

3. The Partnership Act, 1932

- (a) Definition – Partner, Partnership.
- (b) Nature and Characteristics of Partnership.
- (c) Types of Partners.
- (d) Registration of a Partnership Firms and consequences of non-registration.
- (e) Rights and Duties of Partners.
- (f) Dissolution of firms – meaning and grounds.

Comment [a336]: TKS

4. The Limited Liability Partnership Act, 2008

- (a) Definition.
- (b) Salient Features of LLP.
- (c) Advantages and disadvantages of LLP.
- (d) Differences between: LLP and Partnership, LLP and Company.
- (e) Incorporation of LLP.

Comment [a337]: TKS

5. The Negotiable Instruments Act 1881

- (a) Definition, Features, Types, Parties of Negotiable Instruments: Promissory Note, Bill of exchange, Cheque (Definition and Types).
- (b) Endorsement: Types of Endorsement.
- (c) Holder and Holder in Due Course, Privileges of Holder in Due Course.
- (d) Dishonour of Negotiable Instruments: Modes, Consequences, Notice of Dishonour; Noting and Protesting.
- (e) Discharge of Negotiable Instruments: Meaning and Modes.

Comment [a338]: SPC

(If any new provisions are enacted in place of the existing provisions, the syllabus will accordingly include such new provisions in place of existing provisions with effect from such date as prescribed by the University of Kalyani. Similarly if any existing provision becomes redundant due to changes, it will be left out of the syllabus)

Course Code: UG BCOM-H-GE-T-02
Course Title: BUSINESS MATHEMATICS AND STATISTICS
Generic Course; Credit-6; Full Marks-75

Module I BUSINESS MATHEMATICS

Comment [a339]: SS

COURSE CONTENTS:

1. (A) Logarithm: Meaning of Logarithm, General properties of Logarithm, Common Problems.
(B) Laws of Indices.
2. (A) A.P. Series: Definition, Common difference, General term, A.M., Sum of first n terms of an A.P., Sum of an infinite A.P. Series.
(B) G.P. Series: Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P., Sum of an infinite G.P. Series.
(C) Compound Interest & Annuities: Different types of interest rates; Concept of Present Value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds.
3. Functions, Limit, Continuity and Differentiation – Simple Problem (Without trigonometric application)

Module II STATISTICS

Comment [a340]: SJS

COURSE CONTENTS:

1. Statistical Data and Descriptive Statistics
(A) Statistical Data: Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties.
(B) Diagrammatic representation: Histogram, Frequency Polygon, Ogive, Pie chart, Line and Bar diagram.
(C) Different Measures of Central Tendency: Arithmetic Mean, Geometric Mean and Harmonic Mean, Median, Mode and Quartiles.
(D) Different Measures of Dispersion: Common measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Measures of relative dispersion.
2. Simple Correlation and Regression Analysis
(A) Correlation Analysis: Scatter diagram; Pearson's co-efficient of correlation; Rank Correlation.

(B) Regression Analysis: Regression equations and estimation [Elementary level].
3. Index Numbers: Meaning and uses of index numbers; Construction of index numbers: fixed and chain base, Problems relating to construction of index numbers, Construction of consumer price indices.

B.COM. (GENERAL) SEMESTER-II
Course Code: UG BCOM-G-CC-T-04
Course Title: MARKETING MANAGEMENT
Core Course; Credit-6; Full Marks-75
Session 2020-2021 (Jan-June)

COURSE CONTENTS:

1. **Introduction:** Nature and scope of marketing; Evolution of Marketing concepts; Selling vs. marketing; Marketing mix; Marketing environment.
2. **Consumer Behaviour** and Market Segmentation: Nature, scope and significance of consumer behaviour; Market segmentation – concept and importance; Bases for market segmentation.
3. **Product:** Concept of product, consumer, and industrial goods; Packaging and labeling; function, Product life cycle concept.
4. **Price and Promotion: Importance** of price in the marketing mix; Factors affecting price of a product. Pricing policies and strategies; Methods of promotion; Advertising, Personal selling; Sales Promotion.
5. **Distribution and Retailing: Distribution channels** – concept and role; Types of distribution channels; Types of retailing – store based and non-store based retailing, chain stores, specialty stores, supermarkets; Retailing in India.

Comment [a341]: JD

Comment [a342]: JD

Comment [a343]: PN

Comment [a344]: PN

Comment [a345]: JD

B.COM. (GENERAL) SEMESTER-II

Course Code: UG BCOM-G-CC-T-05
Course Title: BUSINESS LAWS
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. The Indian Contract Act, 1872
 - (a) Contract – meaning, characteristics and kinds, Essentials of a valid contract.
 - (b) Offer and acceptance (Definition, Rules, Communication and Revocation of offer and acceptance).
 - (c) Consideration (Definition, Elements, Types, Rules), “No Consideration No Contract” and its exceptions; Capacity to Parties (Definition and Types).
 - (d) Consent, Free consent, Coercion, Undue Influence, Fraud, Misrepresentation, Mistake.
 - (e) Legality of objects and Consideration.
 - (f) Void and Voidable agreements – Definition, Types and Distinction.
 - (g) Discharge of a contract – Modes of discharge, Breach and Remedies against breach of contract.
 - (h) Specific Contracts - Contingent contracts, Quasi, Contract of Indemnity, Guarantee, Bailment, Pledges.

Comment [a346]: JD

2. The Sale of Goods Act, 1930
 - (a) Contract of sale, meaning and difference between sale and agreement to sell.
 - (b) Conditions and warranties.
 - (c) Transfer of ownership in goods including sale by a non-owner.
 - (d) Performance of contract of sale.
 - (e) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

Comment [a347]: SPC

3. The Partnership Act, 1932
 - (a) Definition – Partner, Partnership.
 - (b) Nature and Characteristics of Partnership.
 - (c) Types of Partners.
 - (d) Registration of a Partnership Firms and consequences of non-registration.
 - (e) Rights and Duties of Partners.
 - (f) Dissolution of firms – meaning and grounds.

Comment [a348]: TKS

4. The Limited Liability Partnership Act, 2008
 - (a) Definition.
 - (b) Salient Features of LLP.
 - (c) Advantages and disadvantages of LLP.
 - (d) Differences between: LLP and Partnership, LLP and Company.
 - (e) Incorporation of LLP.

Comment [a349]: TKS

5. The Negotiable Instruments Act 1881
 - (a) Definition, Features, Types, Parties of Negotiable Instruments: Promissory Note, Bill of exchange, Cheque (Definition and Types).
 - (b) Endorsement: Types of Endorsement.
 - (c) Holder and Holder in Due Course, Privileges of Holder in Due Course.
 - (d) Dishonour of Negotiable Instruments: Modes, Consequences, Notice of Dishonour; Noting and Protesting.
 - (e) Discharge of Negotiable Instruments: Meaning and Modes.

Comment [a350]: SPC

(If any new provisions are enacted in place of the existing provisions, the syllabus will accordingly include such new provisions in place of existing provisions with effect from such date as prescribed by the University of Kalyani. Similarly if any existing provision becomes redundant due to changes, it will be left out of the syllabus)

SEMESTER-IV
Course Code: UG BCOM-H-CC-T-08
Course Title: COST ACCOUNTING
Core Course; Credit-6; Full Marks-75
Session 2020-2021 (Jan-June)

COURSE CONTENTS:

1. **Introduction:** Meaning and Objectives of Cost Accounting, Difference between Cost Accounting, Financial Accounting and Management Accounting, Cost Unit, Cost Centre, Investment Centre & Profit Centre – Cost Accounting System – Installing of Cost Accounting System – Essentials of good Cost Accounting System. Methods and Techniques of Costing.
2. **Costs:** Meaning of cost, Various concepts of costs (Direct cost, Indirect costs, Period cost, Conversion cost, Sunk cost, Opportunity cost, etc.), Cost classification based on Elements, Functions & Behaviour, Preparation of Cost Sheet including Budgeted Cost Sheet.
3. **Material Costs:** Importance of Materials Cost, Constituents of material cost; Centralised & Decentralised Purchase of Materials, Purchase Procedure, Documents; Storage of Materials: Storage records; Material Control: Stock Levels (Maximum, Minimum, Re-Order & Danger Level), Meaning of Economic Order Quantity and its applications, Periodic Inventory vs. Perpetual Inventory, ABC Analysis, VED Analysis, JIT Inventory; Different Methods for Pricing the Issue of Material: FIFO, LIFO, Simple, Weighted & Periodic Average Methods, Preparation of Store Ledger; Accounting for material cost.
4. **Labour Costs:** Accounting and Control of labour cost, Time keeping and time booking, Methods of wage payment (Piece rate, Differential piece rate, Time rate), Incentive schemes for workers (Halsey, Rowan, Halsey-Weir), Measurement of Efficiency of a workers. Concept and treatment of idle time, over time, labour turnover and fringe benefits.
5. **Overhead Costs:** Classification, allocation, apportionment and absorption of overheads; Meaning, Concept & Reasons for Under- absorption and over-absorption of Overhead and treatment in Cost Accounting; Capacity Levels and Costs; Treatments of certain items in costing like interest on capital, packing expenses, bad debts, research and development expenses; Activity based cost allocation.
6. **Contract Costing:** Meaning, Features, Costing Procedure, Fixed Price Contract & Cost Plus Contract, Escalation & De-escalation Clause, Retention Money, Treatment of Profit and Loss on Incomplete Contract, Preparation of Contract Account.
7. **Process Costing:** Meaning, Features, Applicability, Preparation of Process Account, Treatment of Normal Loss, Abnormal Loss & Abnormal Gain, Loss of Income, etc. in Cost Accounting, Inter Process Profit, By-Product & Joint-Product (Meaning and Distinction).
8. **Operating Costing:** Meaning & Concepts, Areas of Application, Different Services and their Composite Units, Computation of Composite Unit Cost.
9. **Cost Control Accounts (non-integrated systems only):** Journal Entries, Ledger Account, Costing Profit & Loss Account; Reasons for Variation between Profit as per Cost Accounts & Profit as per Financial Accounts, Simple Problems on Reconciliation of the Two Profits.

Comment [a351]: SPC

Comment [a352]: PN

Comment [a353]: SPC

Comment [a354]: TKS

Comment [a355]: PN

Comment [a356]: SPC

Comment [a357]: SPC

Comment [a358]: TKS

Comment [a359]: TKS

Course Code: UG BCOM-H-CC-T-09
Course Title: INDIRECT TAX LAWS
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction:** Concept and types of indirect tax. Right to impose indirect taxes (by Centre and

Comment [a360]: JD

States/Union Territories) before and after 101st Amendment of Constitution. Introduction of Goods & Services Tax (GST); Indirect taxes subsumed by GST; Goods kept outside the purview of GST; Formation of GST Council; Date of effect and the non-taxable territory; Types of GST- Central GST (governed by The Central Goods & Services Tax Act 2017), State/UT GST (governed by The State Goods & Services Tax Act 2017 of each State/ Union Territory) and Integrated GST (governed by The Integrated Goods & Services Tax Act 2017).

2. **Supply:** Levy of tax on “Supply”; Definition of supply; Intra-State and Inter-State supply; Composite and Mixed supply; Supplies of goods and services liable to be reverse charged, Composition levy.

Comment [a361]: JD

3. (i) **Registration:** Persons liable to registration; Compulsory registration; Procedure of Registration.

(ii) **Documentation:** Tax Invoice; Bill of Supply, Receipt Voucher, Payment Voucher, Refund Voucher, Debit Note, Credit Note. Harmonized System Nomenclature (HSN) of Goods, and Service Accounting Code (SAC) of Services; Nil rated supplies, Zero rated supplies, Exempted supplies & Non-GST supplies.

Comment [a362]: TKS

4. **Input Tax Credit:** Eligibility and conditions for taking input tax credit; Apportionment of input credit and blocked credits;

Comment [a363]: TKS

5. (i) **GST Returns:** GSTR 1, GSTR 2 and GSTR 3, Time and procedure of filing of Returns.

(ii) Payment of Tax: (a) Through Input Tax Credit (b) By cash/bank after generation of online Challan.

Comment [a364]: TKS

Course Code: UG BCOM-H-CC-T-10

Course Title: COMPANY LAW

Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

(i) **Introduction:** Basic features of Companies Act 2013, Types of companies-Company limited by Guarantee, Company limited by Shares, Unlimited Company, Private company, public company, one person company, small company, dormant company, associate company, government company, Holding Company, Subsidiary Company; Concept of corporate veil, Doctrine of lifting corporate veil.

Comment [a365]: PN

(ii) **Documents:** Meaning, contents and alteration of Memorandum of Association, Doctrine of Ultra Vires, Meaning, contents and alteration of Article of Association, Doctrine of Indoor Management; Meaning and contents of Prospectus, abridged prospectus, shelf prospectus, red- herring prospectus, misstatement in a prospectus.

Comment [a366]: PN

(iii) **Formation of Company:** Meaning, Legal Position and Functions of Promoter, Steps in formation of a Company, procedure for registration and incorporation, certificate of incorporation and commencement of business.

Comment [a367]: SPC

(iv) **Management:** Classification of directors, director identification number (DIN), qualification, disqualification, appointment, legal position; number of directorship ; removal, resignation of director, duties, liabilities, powers of board of directors; Key Managerial Personnel (Definition, Appointment and Qualifications) – Managing Director, Whole time Directors, Companies Secretary, Chief Financial Officer, Resident Director, Independent Director, Women Director.

Comment [a368]: SPC

(v) **Company Meetings:** Meetings of shareholders and board of directors; Types of meetings, Convening and conduct of meetings, Requisites of a valid meeting, postal ballot, meeting through videoconferencing, e-voting.

Comment [a369]: PN

Course Code: UG BCOM-H-GE-T-04

Course Title: INDIAN ECONOMICS

Generic Course; Credit-6; Full Marks-75

Comment [a370]: AKB

COURSE CONTENTS:

1. Basic Issues of Economic Development: Concept and Measures of Development and

Underdevelopment; Human Development Index; Human Capital-Meaning and Importance.

2. Basic Issues of Indian Economy: Features of Indian Economy; Sectoral distribution of National Income; Structural Change in Indian Economy; Problem of Poverty, Poverty alleviation measures; Problem of Unemployment and the policy measures; Population Growth and Economic Development.
3. Agricultural Sector: Problems of Indian agriculture; Land Reforms; Green Revolution and its impact; Problems of Rural Credit and Marketing; Co-operative Farming.
4. Industrial Sector: Industrial Labour; Industrial Sickness; Small Scale and Cottage Industry; Industrial Policy-Role of Public Sector; Its performance and issue of Disinvestment-Privatisation.
5. External Sector: Foreign Capital: Components; Need of Foreign Capital; Policy towards Foreign Capital; Foreign Investment since 1991; Globalisation- Meaning and Impact; International Institutions- WTO, World Bank, IMF.

Course Code: UG BCOM-H-SEC-T-02A

Course Title: TAX RETURNS AND FILING OF TAX RETURNS

Skill Enhancement Course; Credit-2; Full Marks-50

COURSE CONTENTS:

A. Returns under Income Tax (10 Marks)

1. PAN and TAN- Procedure for application of PAN/TAN.
2. (a) Payment of Advance Tax and Self Assessment Tax.
- (b) Interest- Interest u/s 234A, 234B, 234C, (simple problems).
3. Filing of Returns- Due dates of filing of Returns- Section 139(1); Section 139(4) [after due date]; Section 139(5) [Revised Return]; Section 139(9) [Defective Return]; Section 142 (1) [Notice to submit Return]. Different types of Returns and Due dates for filing of those Returns.
4. Procedure of filing e-Return- ITR 1 only.

Comment [a371]: JD

B. Returns under Goods and Services Tax (10 Marks)

1. Different types of Taxable Persons and Returns to be submitted by them; Due dates for filing of Returns.
2. Procedure of filing e-Return- GSTR 1 and GSTR 4 only.

Comment [a372]: TKS

C. Practical on hard copy of ITR 1 (20 Marks)

Comment [a373]: JD, TKS

B.COM. (GENERAL)

SEMESTER-IV

Course Code: UG BCOM-G-CC-T-10

Course Title: COST ACCOUNTING Core Course; Credit-6; Full Marks-75

Session 2019-2020 (Jan-June)

COURSE CONTENTS:

1. **Introduction:** Meaning and Objectives of Cost Accounting, Difference between Cost Accounting, Financial Accounting and Management Accounting, Cost Unit, Cost Centre, Investment Centre & Profit Centre – Cost Accounting System – Installing of Cost Accounting System – Essentials of good Cost Accounting System. Methods and Techniques of Costing.

Comment [a374]: SPC

2. **Costs: Meaning** of cost, Various concepts of costs (Direct cost, Indirect costs, Period cost, Conversion cost, Sunk cost, Opportunity cost, etc.), Cost classification based on Elements, Functions & Behaviour, Preparation of Cost Sheet including Budgeted Cost Sheet.

Comment [a375]: PN

3. **Material Costs:** Importance of Materials Cost, Constituents of material cost; Centralised & Decentralised Purchase of Materials, Purchase Procedure, Documents; Storage of Materials: Storage records; Material Control: Stock Levels (Maximum, Minimum, Re-Order & Danger Level), Meaning of

Comment [a376]: SPC

Economic Order Quantity and its applications, Periodic Inventory vs. Perpetual Inventory, ABC Analysis, VED Analysis, JIT Inventory; Different Methods for Pricing the Issue of Material: FIFO, LIFO, Simple, Weighted & Periodic Average Methods, Preparation of Store Ledger; Accounting for material cost.

4. **Labour Costs:** Accounting and Control of labour cost, Time keeping and time booking, Methods of wage payment (Piece rate, Differential piece rate, Time rate), Incentive schemes for workers (Halsey, Rowan, Halsey-Weir), Measurement of Efficiency of a workers.

Comment [a377]: TKS

5. **Overhead Costs:** Classification, allocation, apportionment and absorption of overheads; Meaning, Concept & Reasons for under-absorption and over-absorption of Overhead and treatment in Cost Accounting; Capacity Levels and Costs.

Comment [a378]: PN

6. **Contract Costing:** Meaning, Features, Costing Procedure, Fixed Price Contract & Cost Plus Contract, Escalation & De-escalation Clause, Retention Money, Preparation of Contract Account.

Comment [a379]: SPC

7. **Budget and Budgetary Control:** Concept of budget and budgetary control. Principal Budget Factors, Preparation of Functional budgets (Sales, Purchase, Production, etc.), cash budget, fixed and flexible budgets; Concept of Master Budget.

Comment [a380]: TKS

Course Code: UG BCOM-G-CC-T-11
Course Title: INDIRECT TAX LAWS
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction:** Concept and types of indirect tax. Right to impose indirect taxes (by Centre and States/Union Territories) before and after 101st Amendment of Constitution. Introduction of Goods & Services Tax (GST); Indirect taxes subsumed by GST; Goods kept outside the purview of GST; Formation of GST Council; Date of effect and the non-taxable territory; Types of GST- Central GST (governed by The Central Goods & Services Tax Act 2017), State/UT GST (governed by The State Goods & Services Tax Act 2017 of each State/ Union Territory) and Integrated GST (governed by The Integrated Goods & Services Tax Act 2017).

Comment [a381]: JD

2. **Supply:** Levy of tax on "Supply"; Definition of supply; Intra-State and Inter-State supply; Composite and Mixed supply; Supplies of goods and services liable to be reverse charged, Composition levy.

Comment [a382]: JD

3. (i) **Registration:** Persons liable to registration; Compulsory registration; Procedure of Registration.

(ii) **Documentation:** Tax Invoice; Bill of Supply, Receipt Voucher, Payment Voucher, Refund Voucher, Debit Note, Credit Note. Harmonized System Nomenclature (HSN) of Goods, and Service Accounting Code (SAC) of Services; Nil rated supplies, Zero rated supplies, Exempted supplies & Non-GST supplies.

Comment [a383]: TKS

4. **Input Tax Credit:** Eligibility and conditions for taking input tax credit; Apportionment of input credit and blocked credit.

5. (i) **GST Returns:** GSTR 1, GSTR 2 and GSTR 3, Time and procedure of filing of Returns.

(ii) Payment of Tax: (a) Through Input Tax Credit (b) By cash/bank after generation of online Challan.

Comment [a384]: TKS

Course Code: UG BCOM-G-SEC-T-02A
Course Title: TAX RETURNS AND FILING OF TAX RETURNS
Skill Enhancement Course; Credit-2; Full Marks-50

COURSE OBJECTIVE:

To acquaint the students of the actual practice of filing Tax Returns so that in future they can opt for self-employment in Tax matters.

COURSE CONTENTS:

- A. **Returns under Income Tax** (10 Marks)
1. PAN and TAN- Procedure for application of PAN/TAN.
 2. (a) Payment of Advance Tax, and Self Assessment Tax.
(b) Interest- Interest u/s 234A, 234B, 234C, (simple problems).
 3. Filing of Returns- Due dates of filing of Returns- Section 139(1); Section 139(4) [after due date]; Section 139(5) [Revised Return]; Section 139(9) [Defective Return]; Section 142 (1) [Notice to submit Return]. Different types of Returns and Due dates for filing of those Returns.
 4. Procedure of filing e-Return- ITR 1 only.
- B. **Returns under Goods and Services Tax** (10 Marks)
1. Different types of Taxable Persons and Returns to be submitted by them; Due dates for filing of Returns.
 2. Procedure of filing e-Return- GSTR 1 and GSTR 4 only.
- C. **Practical on hard copy of ITR** I (20 Marks).

Comment [a385]: JD

Comment [a386]: TKS

Comment [a387]: JD, TKS

B.COM. (HONOURS)**SEMESTER-VI****Course Code: UG BCOM-H-CC-T-13****Course Title: FINANCIAL MANAGEMENT****Core Course; Credit-6; Full Marks-75****2020-2021 (Jan-June)****COURSE CONTENTS:**

1. **Fundamentals of Financial Management:** Definition, Concept, scope, objective, and importance of financial management. Objectives of the firm – profit maximization and wealth maximization. Time value of money.
2. **Sources of Finance and Cost of Capital:** Different sources of finance - long term and short term sources. Cost of capital - concept, relevance of cost of capital, specific costs and weighted average cost, rationale of after tax weighted average cost of capital, marginal cost of capital.
3. **Working Capital and Its Management:** Meaning, concept, composition, nature, types of working capital, Determining factors of working capital, Working Capital Cycle, Estimation of working capital requirements (excluding problems on extra shift working capital and working capital policy). Working Capital Management – Importance of working capital management, Working capital financing – Long-term, medium and short-term.
4. **Capital Structure and Leverage:** Meaning, concept, importance of capital structure. Determining factors of capital structure. Concept of optimum capital structure. Various capital structure theories (NI, NOI).
Leverage – Concept, types and importance. Financial, operating and combined leverages, Trading on Equity, EBIT-EPS Analysis. Business Risk and Financial Risk.
5. **Capital Budgeting** – Concept and importance of capital budgeting decisions. Different project

Comment [a388]: JD, PN

Comment [a389]: JD

Comment [a390]: JD

Comment [a391]: JD

Comment [a392]: PN

evaluation techniques - ARR, Pay Back Period, NPV, IRR, PI.

6. **Dividend Decision:** Meaning, concept and significance. Determinants of dividend policies.

Comment [a393]: PN

Analytical study of dividend policy theories – Walter’s Model, Gordon’s Model and MM Theory.

7. (a) **Funds Flow Statement:** Concepts of fund – Meaning, nature, importance and limitations of funds flow statement – Various sources and uses of fund – Preparation of funds flow statement.

Comment [a394]: PN

(b) **Cash Flow Statement:** Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. Cash flow statement – Various sources and uses of cash – Preparation of cash flow statement.

Comment [a395]: PN

Course Code: UG BCOM-H-CC-T-14

Course Title: PROJECT WORK

Core Course; Credit-6; Full Marks-75

Comment [a396]: PN, JD, SPC, TKS, AKB

COURSE CONTENTS:

For Project Work: Each student is required to conduct a study on a topic involving any business, social, economic or other relevant issue/ problem under the supervision of a faculty member assigned by the college/institution and to submit his/ her project report. Each student is also required to make a presentation on the submitted project report and face a viva voce by a board of examiners.

Examples of a few broad areas of Project: (List is indicative, not exhaustive)

- Accounting and Finance of Local Bodies.
- Any topic concerning local economic /entrepreneurial issues / new business proposal.
- Agro based industry / cottage industry.
- Commercial Crops including Horticulture & Sericulture.
- Micro-finance/ Financial Inclusion.
- Micro-insurance.
- Small Savings.
- Rural and Agricultural Banking.
- Preservation & Storage of Agricultural Products.
- Eco-tourism.
- Hotels, Restaurants, Eateries.
- Digital Service Providers- Photocopy, Mobile, Internet, Cable etc.
- Medical Service Providers.
- Educational Service Providers.
- Construction industry.
- Small Traders/ Street Vendors/ Hawkers including Railway Hawkers.
- Rural and Agricultural workers.
- Role of Micro Small and Medium Enterprises.
- Accounting Standards for Local Bodies.
- IFRS for SMEs.
- Indian Accounting Standards(Rule of 2006, as amended in 2016).
- Schedule III of Companies Act, 2013.
- Auditing Standards.
- E-Commerce & M-commerce.
- Credit Rating / Risk Management.
- Frauds/ White Collar Frauds.
- Subprime Meltdown and its after effect with case study from Indian Industry.
- Carbon Credit.
- Goods and Services Tax (GST)/Value Added Tax (VAT).

- Public Sector Undertakings and Indian Economic Development.
- Corporate Social Responsibilities.
- Corporate Governance.
- Financial Sector Reforms.
- On-line Banking.
- NPA Management.
- Business Process Outsourcing.
- Capital Market.
- Environmental Accounting/ Environmental Management.
- Financial Statement Analysis / Performance Analysis.
- Working Capital Management.
- Mergers & Acquisitions.
- Study on Aviation Sector in India.
- Venture Capital.
- Equity Linked Savings Scheme.
- Insurance Industry in India.
- Analysis of Mutual Funds.
- Commercialization of Sports in India.
- Marketing Strategy of products.
- Marketing and Promotional Strategies.
- Market Research.
- Brand Repositioning.
- Customer Relationship Management.
- Sales & Distribution Management.
- Customer Awareness.
- Industrial Marketing Vs. Consumer.
- Study of Consumer Behaviour.
- Packaging of Products.
- After Sales Service and Customer Satisfaction.
- Effectiveness of Advertising.
- Direct Marketing & Networking.
- Digital Commerce.

Guidelines for Project Writing:

Each of the students has to undertake a Project individually under the supervision of a teacher and to submit the same following the guidelines stated below.

- Language of Project Report and Viva-Voce Examination may be English or Bengali. The Project Report must be typed and spirally bounded.
- Failure to submit the Project Report or failure to appear at the Viva-voce Examination will be treated as “Absent” in the Examination. He /she has to submit the Project Report and appear at the Viva-Voce Examination in the subsequent years (within the time period as per University Rules).
- No marks will be allotted on the Project Report unless a candidate appears at the Viva-Voce Examination. Similarly, no marks will be allotted on Viva-Voce Examination unless a candidate submits his/her Project Report.
- Evaluation of the Project Report and conduct of Viva-Voce Examination to be done jointly by **internal examiner(s) and external examiner(s)** with equal weightage, i.e., average marks of the internal and external experts will be allotted to the candidate.
- Division of Marks for this Paper::

a) Project Report and Presentation (40 marks)

Chapter 1: Introduction – 5 marks

Chapter 2: Conceptual Framework/ National/International Scenario – 10 marks

Chapter 3: Presentation, Analysis & Findings -- 20 marks

Chapter 4: Conclusion & Recommendations -- 5 marks

b) Viva-Voce (20 marks)

c) Internal (15 marks)

Course Code: UG BCOM-H-DSE-T- 03A

Course Title: MANAGEMENT ACCOUNTING

Discipline Specific Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction:** Meaning, Objectives, Nature and Scope of management accounting, differences among Cost Accounting, Financial Accounting and Management Accounting, Concept of cost control, cost reduction and cost management.

Comment [a397]: TKS

2. **Budget and Budgetary Control:** Concept of budget and budgetary control. Principal Budget Factors, Budget Committee, Budget Manual; Preparation of Functional budgets (Sales, Purchase, Production, etc.), cash budget, fixed and flexible budgets; Concept of Master Budget and Zero base budgeting.

Comment [a398]: TKS

3. **Standard Costing:** Meaning of standard cost and standard costing. Steps involved in standard costing, Advantages and Limitations of Standard Costing. Types and Meaning of different cost variances, Determination of material and labour cost variances.

Comment [a399]: TKS

4. **Cost Volume Profit Analysis and Marginal Costing:** Meaning and assumption of Cost-Volume-Profit Analysis; Break Even Chart- Break Even Point, Margin of Safety, Angle of Incidence; Profit graph.

Comment [a400]: TKS

Concepts of Marginal Cost, Marginal Costing & Contribution; Limitations of Marginal Costing, Distinction between Absorption Costing & Marginal Costing, Marginal Cost Equation and Techniques of Marginal Costing.

5. (a) **Ratio Analysis:** Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios—liquidity, solvency, activity, profitability, capital structure, managerial efficiency; Preparation of financial statement and statement of proprietor's fund from relevant ratios.

Comment [a401]: SPC

(b) **Common Size Statements:** Meaning, Objectives and Preparation of Common Size Statements.

Comment [a402]: SPC

Course Code: UG BCOM-H-DSE-T- 04A

Course Title: INDIAN FINANCIAL SYSTEM

Discipline Specific Course; Credit-6; Full Marks-75

Module-I

INDIAN FINANCIAL SYSTEM

COURSE CONTENTS:

1. **Financial System-** Meaning, Components; Structure of Indian Financial System.

Comment [a403]: PN

2. **Reserve Bank of India-**

Comment [a404]: PN

(a) Organisation, Management, Functions- Credit Creation and Control.

(b) Monetary Policy- Objective, Different ways of RBI, Impediments to the effectiveness of

monetary policy.

3. **Development Banks**- Concepts, Objectives & Functions of National & State Level

Comment [a405]: JD

Development Banks (IFCI, IDBI, ICICI, NABARD, SIDCs).

4. **Insurance Sector** (Life & General) Objectives and Functions; Public & Private players.

Comment [a406]: JD

5. **Regulatory Bodies**- Fundamental ideas about various regulatory bodies like- SEBI, RBI, IRDA.

Comment [a407]: JD

Module-II
MARKET OPERATION

COURSE OBJECTIVE:

The objective is to provide the students a basic knowledge of Indian Financial Markets & Institutions and to familiarise them with major financial services in India.

COURSE CONTENTS:

1. **Introduction**- An Overview of Financial Market in India- New Financial Instrument: Commercial Paper, Treasury Bill, Certificate of Deposit- Concepts, features and advantages.

Comment [a408]: JD

2. **Money Market**- Concept, Structure of Indian Money Market, Basic idea of its different components.

Comment [a409]: PN

3. **Capital Market**- Primary Market and Secondary Market- Concept & Interrelation, Function and role of Stock Exchange (Including the basic ideas of types of stock market, Operation and Trading Mechanism of Stock Market) Credit Rating: Meaning, Rating Methodology, Rating symbols by different Rating Agencies.

Comment [a410]: PN

4. **Depository Services** -Role and Function of Depository Services, Advantages, NSDL and CDSL.

Comment [a411]: JD

B.COM. (GENERAL) SEMESTER-VI
Course Code: UG BCOM-G-DSE-T-03A
Course Title: MANAGEMENT ACCOUNTING
Discipline Specific Course; Credit-6; Full Marks-75
Session 2020-2021 (Jan-June)

COURSE CONTENTS:

1. **Introduction**: Meaning, Objectives, Nature and Scope of management accounting, differences among Cost Accounting, Financial Accounting and Management Accounting, Concept of cost control, cost reduction and cost management.

Comment [a412]: TKS

2. **Budget and Budgetary Control**: Concept of budget and budgetary control. Principal Budget Factors, Budget Committee, Budget Manual; Preparation of Functional budgets (Sales, Purchase, Production, etc.), cash budget, fixed and flexible budgets; Concept of Master Budget and Zero base budgeting.

Comment [a413]: TKS

3. **Standard Costing**: Meaning of standard cost and standard costing. Steps involved in standard costing, Advantages and Limitations of Standard Costing. Types and Meaning of different cost variances, Determination of material and labour cost variances.

Comment [a414]: TKS

4. **Cost Volume Profit Analysis and Marginal Costing**: Meaning and assumption of Cost- Volume-Profit Analysis; Break Even Chart- Break Even Point, Margin of Safety, Angle of Incidence; Profit graph.

Comment [a415]: SPC

Concepts of Marginal Cost, Marginal Costing & Contribution; Limitations of Marginal Costing, Distinction between Absorption Costing & Marginal Costing, Marginal Cost Equation and Techniques of Marginal Costing.

5. (a) **Ratio Analysis**: Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios–liquidity, solvency, activity, profitability, capital structure, managerial efficiency; Preparation of financial statement and statement of proprietor's fund

Comment [a416]: SPC

from relevant ratios.

(b) **Common Size Statements**: Meaning, Objectives and Preparation of Common Size Statements.

Comment [a417]: SPC

Course Code: UG BCOM-G-DSE-T-04A Course
Title: INDIAN FINANCIAL SYSTEM
Discipline Specific Course; Credit-6; Full Marks-75

Module-I

INDIAN FINANCIAL SYSTEM

The objective is to provide the students a basic knowledge of components and structure of Indian Financial System.

COURSE CONTENTS:

1. **Financial System**- Meaning, Components; Structure of Indian Financial System.
2. **Reserve Bank of India**-
 - (a) Organisation, Management, Functions- Credit Creation and Control.
 - (b) Monetary Policy- Objective, Different ways of RBI, Impediments to the effectiveness of monetary policy.
3. **Development Banks**- Concepts, Objectives & Functions of National & State Level Development Banks (IFCI, IDBI, ICICI, NABARD, SIDCs).
4. **Insurance Sector** (Life & General) Objectives and Functions; Public & Private players.
5. **Regulatory Bodies**- Fundamental ideas about various regulatory bodies like- SEBI, RBI, IRDA.

Comment [a418]: PN

Comment [a419]: PN

Comment [a420]: TKS

Comment [a421]: JD

Comment [a422]: JD

Module-II MARKET OPERATION

COURSE OBJECTIVE:

The objective is to provide the students a basic knowledge of Indian Financial Markets & Institutions and to familiarise them with major financial services in India.

COURSE CONTENTS:

1. **Introduction**- An Overview of Financial Market in India- New Financial Instrument: Commercial Paper, Treasury Bill, Certificate of Deposit- Concepts, features and advantages.
2. **Money Market**- Concept, Structure of Indian Money Market, Basic idea of its different components.
3. **Capital Market**- Primary Market and Secondary Market- Concept & Interrelation, Function and role of Stock Exchange (Including the basic ideas of types of stock market, Operation and Trading Mechanism of Stock Market) Credit Rating: Meaning, Rating Methodology, Rating symbols by different Rating Agencies.
4. **Depository Services**- Role and Function of Depository Services, Advantages, NSDL and CDSL.

Comment [a423]: JD

Comment [a424]: PN

Comment [a425]: PN

Comment [a426]: JD

Course Code: UG BCOM-G-GE-T-02
Course Title: INDIAN ECONOMICS
Generic Course; Credit-6; Full Marks-75

Comment [a427]: AKB

COURSE CONTENTS:

1. Basic Issues of Economic Development: Concept and Measures of Development and Underdevelopment; Human Development Index; Human Capital-Meaning and Importance.
2. Basic Issues of Indian Economy: Features of Indian Economy; Sectoral distribution of National Income; Structural Change in Indian Economy; Problem of Poverty, Poverty alleviation measures; Problem of Unemployment and the policy measures; Population Growth and Economic Development.
3. Agricultural Sector: Problems of Indian agriculture; Land Reforms; Green Revolution and its impact; Problems of Rural Credit and Marketing; Co-operative Farming.
4. Industrial Sector: Industrial Labour; Industrial Sickness; Small Scale and Cottage Industry; Industrial Policy-Role of Public Sector; Its performance and issue of Disinvestment-Privatisation.
5. External Sector: Foreign Capital: Components; Need of Foreign Capital; Policy towards Foreign Capital; Foreign Investment since 1991; Globalisation- Meaning and Impact; International Institutions- WTO, World Bank, IMF.

Course Code: UG BCOM-G-SEC-T-04A

Course Title: PROJECT WORK

Skill Enhancement Course; Credit-2; Full Marks-50

Comment [a428]: PN, JD, SPC, TKS

COURSE CONTENTS:

For Project Work: Each student is required to conduct a study on a topic involving any business, social, economic or other relevant issue under the supervision of a faculty member assigned by the college/institution and to submit his/ her project report. Each student is also required to make a presentation on the submitted project report and face a viva voce by a board of examiners.

Examples of a few broad areas of Project: (List is indicative, not exhaustive)

- Accounting and Finance of Local Bodies.
 - Any topic concerning local economic /entrepreneurial issues / new business proposal.
 - Agro based industry / cottage industry.
 - Commercial Crops including Horticulture & Sericulture.
 - Micro-finance/ Financial Inclusion.
 - Micro-insurance.
 - Small Savings.
 - Rural and Agricultural Banking.
 - Preservation & Storage of Agricultural Products.
 - Eco-tourism.
 - Hotels, Restaurants, Eateries.
 - Digital Service Providers- Photocopy, Mobile, Internet, Cable etc.
 - Medical Service Providers.
 - Educational Service Providers.
 - Construction industry.
 - Small Traders/ Street Vendors/ Hawkers including Railway Hawkers.
 - Rural and Agricultural workers.
 - Role of Micro Small and Medium Enterprises.
 - Accounting Standards for Local Bodies.
 - IFRS for SMEs.
 - Indian Accounting Standards(Rule of 2006, as amended in 2016).
 - Schedule III of Companies Act, 2013.
 - Auditing Standards.
 - E-Commerce & M-commerce.
 - Credit Rating / Risk Management.
 - Frauds/ White Collar Frauds.
 - Subprime Meltdown and its after effect with case study from Indian Industry.
 - Carbon Credit.
 - Goods and Services Tax (GST)/Value Added Tax (VAT).
 - Public Sector Undertakings and Indian Economic Development.
 - Corporate Social Responsibilities.
 - Corporate Governance.
 - Financial Sector Reforms.
 - On-line Banking.
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- NPA Management.
 - Business Process Outsourcing.
 - Capital Market.
 - Environmental Accounting/ Environmental Management.
 - Financial Statement Analysis / Performance Analysis.
 - Working Capital Management.
 - Mergers & Acquisitions.
 - Study on Aviation Sector in India.
 - Venture Capital.

- Equity Linked Savings Scheme.
- Insurance Industry in India.
- Analysis of Mutual Funds.
- Commercialization of Sports in India.
- Marketing Strategy of products.
- Marketing and Promotional Strategies.
- Market Research.
- Brand Repositioning.
- Customer Relationship Management.
- Sales & Distribution Management.
- Customer Awareness.
- Industrial Marketing Vs. Consumer.
- Study of Consumer Behaviour.
- Packaging of Products.
- After Sales Service and Customer Satisfaction.
- Effectiveness of Advertising.
- Direct Marketing & Networking.
- Digital Commerce.

Guidelines for Project Writing:

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- Language of Project Report and Viva-Voce Examination may be English or Bengali. The Project Report must be typed and spirally bounded.
- Failure to submit the Project Report or failure to appear at the Viva-voce Examination will be treated as “Absent” in the Examination. He /she has to submit the Project Report and appear at the Viva-Voce Examination in the subsequent years (within the time period as per University Rules).
- No marks will be allotted on the Project Report unless a candidate appears at the Viva-Voce Examination. Similarly, no marks will be allotted on Viva-Voce Examination unless a candidate submits his/her Project Report.
- Evaluation of the Project Work is to be done by internal examiner(s).
- Division of Marks for this Paper:
 - a) Project Report and Presentation (30 marks)
 - Chapter 1: Introduction – 5 marks
 - Chapter 2: Conceptual Framework/ National/International Scenario – 10 marks
 - Chapter 3: Presentation, Analysis & Findings -- 10 marks
 - Chapter 4: Conclusion & Recommendations -- 5 marks
 - b) Viva-Voce (10 marks)
 - c) Internal (10 marks)

Course Code: UG BCOM-G-SEC-T-04B

Course Title: AUDITING

Skill Enhancement Course; Credit-2; Full Marks-50

COURSE CONTENTS:

1. **Introduction:** Definition of Auditing, Standards on Auditing (Preliminary idea only), Objectives of Audit, Basic Principles Governing an Audit, Scope of Audit, Inherent limitations of Audit, Different types of Audit, Auditing and Investigation. Basic Concepts in Auditing - Auditor's Independence, Advantages of an independent Audit, Audit Evidence, Concept of Materiality, Concept of True and Fair.
2. **Preparation for an Audit:** Auditor's Engagement, Audit Process, Audit Techniques, Audit Planning, Audit Programme, Continuous and Final Audit, Audit Planning and Materiality, Audit Working Papers, Quality Control for Audit Work, Elements of Statistical Sampling, Audit Risk, Surprise Checks, Obtaining Certificate from Management.
3. **Internal Control,** Internal Check and Internal Audit: Concept of Internal Control, Internal Control and Management, Internal Control and the Auditor, Testing of Internal Control, Examination in Depth, Internal Check, Internal check and Auditor, Internal Audit, Relationship between the Statutory and the

Comment [a429]: JD

Comment [a430]: SPC

Comment [a431]: SPC

Internal Auditors, Internal Financial Control.

4. **Vouching:** Concept of Vouching; Vouching of- Cash Transactions, Payments, Receipts, Trading Transactions, Purchases, Sales.

Comment [a432]: SPC

5. **Verification-** Bank Balance and Cash-in-Hand, Other Assets; Verification of Liabilities.

Comment [a433]: SPC

B.COM. (HONOURS) SEMESTER-I
Course Code: UG BCOM-H-CC-T-01
Course Title: FINANCIAL ACCOUNTING - 1
Core Course; Credit-6; Full Marks-75
Session 2021-2022 (July –Dec)

COURSE CONTENTS:

1. **Introduction to Accounting**

(i) Meaning and objectives of Financial Accounting, Meaning of different types of accounting.

(ii) Users of accounting information and their information needs.

(iii) Accounting Concepts and Conventions: Entity, Money Measurement, Cost, Realisation, Periodicity, Going Concern, Accrual, Consistency, Conservatism, Materiality, Matching and Full Disclosures.

(iv) Meaning of Accounting Theory, Relation of Accounting Theory with Practice, Generally Accepted Accounting Principles (GAAP).

Comment [a434]: JD

(v) Accounting Standards: Concept, Need, Benefits and Limitations of Accounting Standards, Types (Accounting Standards & Indian Accounting Standards) and names of Accounting Standards in India, Provision relating to mandatory application of Accounting Standards under Companies Act, 2013.

(vi) Basic concept of IFRS.

Comment [a435]: AKC

2. **Double entry book keeping system:**

(i) Basic Accounting Equation.

(ii) Meaning and recognition of Assets, Liabilities, Equity, Income and Expenses (Framework for preparation and presentation of Financial Statements issued by the ICAI).

(iii) Accounting Cycle - Journal, Ledger, Trial Balance and Financial Statements.

Comment [a436]: TKS

3. **Basic Principles of preparing Final Accounts**

(i) Revenue recognition: Meaning of revenue and Revenue Recognition Criteria (AS 9).

Comment [a437]: AKC

(ii) **Inventory:** Meaning, Accounting Policy for measurement of Inventory, Ascertainment of cost of inventory, Cost Formula to be used (AS 2).

(iii) **Property, Plant and Equipment:** Meaning, Recognition and Derecognition of property, plant and equipment, Accounting treatment for sale or exchange of property, plant and equipment (AS 10).

Comment [a438]: PN

(iii) **Depreciation:** Meaning, Nature and Objective of Depreciation, Methods of computing Depreciation: Straight-line method, Diminishing balance method and Units of production method, Recognition of Depreciation Charge, Change in the method of depreciation, Depreciation in case of revision of Residual Value and Useful Life of asset (AS 10).

(iv) Provision and Reserves.

(v) Capital and Revenue (Expenditure and Income).

(vi) Concept of Capital and maintenance of capital, relation between capital and income.

(vii) Rectification of Errors, Adjusting Entries and Closing Entries.

4. (a) Final Accounts of Profit Seeking Organisation: Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship (Vertical and Horizontal Formats).

Comment [a439]: TKS

(b) Final Accounts of Not-for-Profit Organisation: Receipts and Payment Account, Income and Expenditure Account and Balance Sheet.

Comment [a440]: AKC

5. **Accounting from Incomplete Records (including Conversion into Double Entry system).**

Comment [a441]: JD

6. Accounting for special sales transaction:

- (a) Consignment: Recording in the books of Consignor – at cost & at invoice price, valuation of unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special commission, Del Credere Commission (with or without bad debt), Use of consignment debtors account, Recording in the books of Consignee.
- (b) Joint Venture: Separate set of books and same set of books.
- (c) Accounting for sales on approval.

Comment [a442]: SPC

Course Code: UG BCOM-H-CC-T-02
Course Title: PRINCIPLES OF MANAGEMENT
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept, Nature, Process and Significance of Management. Is Management a science or an Art or both?
2. Evolution of Management Thoughts: Contribution of Taylor, Fayol, Mayo, Follett, Weber, Neo-classical School, Modern School.
3. Planning: Concept, Importance, Process & Types; Forecasting – Meaning, Importance and Techniques; Decision Making- Concepts and Steps in decision making.
4. Organising: Concept, Nature, Process, Organisation Structure, Delegation of Authority, Span of Management, Line & Staff Authority.
5. Motivation: Concept, Importance of Motivation, Theories- Maslow, Herzberg, McGregor.
6. Leadership: Concept, Leadership Styles –Laissez-Faire, Autocratic, Participative, Transactional & Transformational; Leadership Models– Tannenbaum and Schmidt, Blake and Mouton.
7. Communication: Concept, Nature, Process, Types, Importance and Barriers.
8. Control: Concept, Importance, Features, Process, Tools & Techniques.
9. Co-ordination: Meaning, Importance, Principle & Techniques.

Comment [a443]: PN, JD

Comment [a444]: JD

Comment [a445]: TKS

Comment [a446]: AKC

Comment [a447]: PN

Comment [a448]: TKS

Comment [a449]: AKC

Comment [a450]: SPC

Comment [a451]: SPC

Course Code: UG BCOM-H-GE-T-01
Course Title: MICRO ECONOMICS Generic Course; Credit-6;
Full Marks-75

Comment [a452]: AKB

COURSE CONTENTS:

1. Demand and Supply
Concept of demand, Demand function, Law of Demand and its exceptions, Derivation of individual and market demand curves, Elasticity of demand– price elasticity – relation between slope of demand and elasticity of demand– concepts of income and cross price elasticity of demand. Supply function and equilibrium.
2. Consumer Behaviour
Concepts of cardinal and ordinal utility, Indifference curve analysis, Consumer equilibrium using indifference curve and budget constraint –graphical approach.
3. Production and Cost
Production Function – Short run and long run –Law of variable proportions, Concepts of total productivity, average productivity and marginal productivity, Producer equilibrium through isoquants and isocosts – economies and diseconomies of large scale of production and Returns to scale. Cost Analysis– Fixed and variable cost, Explicit and Implicit costs, Marginal and average costs, Short–run and Long–run cost curves.
4. Perfect Competition

Perfect Competition-Features; Marginal and Average Revenue under Perfect competition; Profit maximization, Equilibrium of firm and industries, Short run and long run supply curves.

5. Imperfect Competition

Monopoly-Features; Marginal and Average Revenue under Imperfect competition; Price and output determination under monopoly, Price discrimination– Degrees of price discrimination; Social cost of Monopoly- concepts only.

Monopolistic competition-Features and examples; Oligopoly – Concepts of collusive and non-collusive oligopoly, Non-collusive Oligopoly- Price competition and Sweezy model, Collusive Oligopoly – Cartel.

B.COM. (GENERAL) SEMESTER-I
Course Code: UG BCOM-G-CC-T-01
Course Title: FINANCIAL ACCOUNTING - 1
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction to Accounting

(i) Meaning and objectives of Financial Accounting, Meaning of different types of accounting.

(ii) Users of accounting information and their information Needs.

(iii) Accounting Concepts and Conventions: Entity, Money Measurement, Cost, Realisation, Periodicity, Going Concern, Accrual, Consistency, Conservatism, Materiality, Matching and Full Disclosures.

(iv) Meaning of Accounting Theory, Relation of Accounting Theory with Practice, Generally Accepted Accounting Principles (GAAP).

(v) Accounting Standards: Concept, Need, Benefits and Limitations of Accounting Standards, Types (Accounting Standards & Indian Accounting Standards) and names of Accounting Standards in India.

(vi) Basic concept of IFRS.

2. Double entry book keeping system:

(i) Basic Accounting Equation.

(ii) Meaning and recognition of Assets, Liabilities, Equity, Income and Expenses (Framework for preparation and presentation of Financial Statements issued by the ICAI).

(iii) Accounting Cycle - Journal, Ledger, Trial Balance and Financial Statements.

3. Basic Principles of preparing Final Accounts

(i) Revenue recognition: Meaning of revenue and Revenue Recognition Criteria (AS 9).

(ii) Inventory: Meaning, Accounting Policy for measurement of Inventory, Ascertainment of cost of inventory, Cost Formula to be used (AS 2),

(iii) Property, Plant and Equipment: Meaning, Recognition and Derecognition of property, plant and equipment, Accounting treatment for sale or exchange of property, plant and equipment (AS 10).

(iii) Depreciation: Meaning, Nature and Objective of Depreciation, Methods of computing Depreciation: Straight-line method, Diminishing balance method and Units of production method, Recognition of Depreciation Charge, Change in the method of depreciation, Depreciation in case of revision of Residual Value and Useful Life of asset.

(iv) Provision and Reserves

(v) Capital and Revenue (Expenditure and Income)

(vi) Concept of Capital and maintenance of capital, relation between capital and income.

(vii) Rectification of Errors, Adjusting Entries and Closing Entries.

4. (a) Final Accounts of Profit Seeking Organisations: Manufacturing A/C, Trading A/C, Profit & Loss A/C and Balance Sheet of Sole Proprietorship (Vertical and Horizontal Formats)

(b) Final Accounts of Not-for-Profit Organisations: Receipts and Payment Account, Income and Expenditure Account and Balance Sheet.

5. Accounting from Incomplete Records (excluding Conversion into Double Entry system)

6. Accounting for special sales transaction:

(a) Consignment: Recording in the books of Consignor – at cost & at invoice price, valuation of unsold stock; ordinary commission, Treatment and valuation of abnormal and normal loss, Special commission, Del Credere Commission (with or without bad debt) Use of consignment debtors a/c.

Comment [a453]: JD

Comment [a454]: AKC

Comment [a455]: PN

Comment [a456]: TKS

Comment [a457]: AKC

Comment [a458]: PN

Comment [a459]: AKC

Comment [a460]: TKS

Comment [a461]: AKC

Comment [a462]: PN

Recording in the books of Consignee.

(b) Joint Venture: Separate set of books and Same set of books.

(c) Accounting for sales on approval.

Comment [a463]: SPC

Comment [a464]: AKC

Course Code: UG BCOM-G-CC-T-02
Course Title: PRINCIPLES OF MANAGEMENT
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept, Nature, Process and Significance of Management. Is Management a science or an Art or both?

Comment [a465]: PN, JD

2. Evolution of Management Thoughts: Contribution of Taylor, Fayol, Mayo, Follett, Weber, Neo-classical School, Modern School.

Comment [a466]: JD

3. Planning: Concept, Importance, Process & Types; Forecasting – Meaning, Importance and Techniques; Decision Making- Concepts and Steps in decision making.

Comment [a467]: TKS

4. Organising: Concept, Nature, Process, Organisation Structure, Delegation of Authority, Span of Management, Line & Staff Authority.

Comment [a468]: AKC

5. Motivation: Concept, Importance of Motivation, Theories- Maslow, Herzberg, McGregor.

Comment [a469]: PN

6. Leadership: Concept, Leadership Styles –Laissez-Faire, Autocratic, Participative, Transactional & Transformational; Leadership Models– Tannenbaum and Schmidt, Blake and Mouton.

Comment [a470]: TKS

7. Communication: Concept, Nature, Process, Types, Importance and Barriers.

Comment [a471]: AKC

8. Control: Concept, Importance, Features, Process, Tools & Techniques.

Comment [a472]: SPC

9. Co-ordination: Meaning, Importance, Principle & Techniques.

Comment [a473]: SPC

B.COM. (HONOURS) SEMESTER-III
Course Code: UG BCOM-H-CC-T-05
Course Title: FINANCIAL ACCOUNTING - 2
Core Course; Credit-6; Full Marks-75
Session 2021-2022 (July-Dec)

COURSE CONTENTS:

9. Partnership Accounts:

Comment [a474]: JD

(d) Profit and Loss Appropriation Account; Capital & Current A/C; Guarantee – by firm, by partner and both; Correction of appropriation items with retrospective effect.

(e) Changes in constitution of firm – Change in profit sharing ratio, Admission, Retirement, Retirement cum Admission—treatment of Goodwill, revaluation of assets and liabilities, treatment of reserves and adjustment relating to capital; treatment of Joint Life Policy, Death of a Partner.

(f) Dissolution of Firm – including piecemeal distribution.

10. Branch Accounting:

Comment [a475]: PN

Synthetic Method: Preparation of Branch account, Branch Trading and P/L account (at cost & at Invoice Price) - normal and abnormal losses.

Analytical Method: Preparation of Branch stock adjustment account (at cost & at Invoice Price)- normal and abnormal losses.

Independent branch – concept of wholesale profit.

11. Hire Purchase and Instalment Payment system:

Comment [a476]: AKC

Recording of Transactions in the books of buyer –Allocation of interest – Use of Interest Suspense Account—Partial and Complete Repossession.

Books of seller – Stock and Debtor Account (with repossession). Books of Seller – H.P. Trading Account (with repossession).

Basic Concept of Operating and Financial lease (AS 19).

12. Departmental Accounts:

Appropriation of common cost, Preparation of Departmental Trading and P/L Account. Consolidated Trading and P/L Account; inter departmental transfer of goods at cost, cost plus and at selling price and elimination of unrealized profit.

Comment [a477]: TKS

13. Introduction to Company Accounts: Meaning of Company and its Classification; Books of Accounts; Maintenance of Books of Accounts; Financial Year; Financial Statements – Meaning, Forms & Contents; Concept of True and Fair View, Authentication of Financial Statements; Filing of Financial Statements.

Comment [a478]: PN

14. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture, Reissue and Buy-Back of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures, Employees' Stock Option Scheme (ESOS) and Employees' Stock Purchase Scheme (ESPS).

Comment [a479]: PN

15. Investment Accounts: Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures – treatment of brokerage, cum & ex-interest and cum & ex-dividend, transfer of securities; Valuation of Investment as per Accounting Standard AS 13.

16. Insurance claim for Loss of Stock and Loss of Profit (simple type).

Comment [a480]: SPC

Course Code: UG BCOM-H-CC-T-06

Course Title: INCOME TAX LAW

Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

6. (a) Basic Concepts and Definitions under Income Tax Act, 1961: Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning

Comment [a481]: AKC

(b) Residential Status of an individual and Incidence of Tax

Comment [a482]: JD

(c) Fully Exempted income of an Individual

Comment [a483]: TKS

(d) Agricultural Income: Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income.

Comment [a484]: TKS

7. Heads of Income and Provisions governing Heads of Income:

(a) Income from Salaries

Comment [a485]: AKC

(b) Income from House Property

Comment [a486]: JD

(c) Profits and Gains from Business or Profession: Special emphasis on section 28, 32, 35, 35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B.

Comment [a487]: TKS

(d) Capital Gain: Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, exemptions u/s 54, 54B, 54D, 54EC and 54F, Taxability of Short Term Capital Gain and Long Term Capital Gain.

Comment [a488]: TKS

(e) Income from Other Sources (excluding Dividend): Basic concepts.

Comment [a489]: TKS

8. (a) Income of other Persons included in Assessee's Total Income: Section 60 to 65

(d) Set off and Carry Forward of Losses: Mode of Set off and Carry Forward, Inter Source and Inter Head Adjustment, Carry forward and set off of losses u/s 71, 72, 73, 74, 74A.

(e) Deductions from Gross Total Income: Basic concepts -deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80GGA, 80GGC, 80QQB, 80RRB, 80TTA, 80U.

Comment [a490]: JD

9. Computation of Total Income and Tax Liability of an Individual.

Comment [a491]: TKS

10. Assessment of Income: Self-Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147.

Comment [a492]: JD

Course Code: UG BCOM-H-CC-T-07

Course Title: HUMAN RESOURCE MANAGEMENT

Core Course; Credit-6; Full Marks-75

Module I

COURSE CONTENTS:

6. **Nature and Scope:** Concept and meaning of Human Resource Management, Understanding the Nature and Scope of HRM, Functions and importance.
7. **Human Resource Planning:** Definition, Need and Features of Human Resource Planning, factor affecting Human Resource Planning.
8. **Recruitment and Selection:** Definition of Recruitment, Sources, need and importance of Recruitment, Recruitment Policy – Process, sources of Recruitment. Definition of Selection, Steps of selection.
9. **Training and Development:** Training and Development-Meaning and purpose of training, Benefits of Training to organization and employees. Training methods.
10. **Job Evaluation and Performance Appraisal:** Job Evaluation – objective, scope, methods, Job analysis, Job description, Job Specification- basic concepts and significance. Performance Appraisal - Concept.

Comment [a493]: JD

Comment [a494]: TKS

Comment [a495]: TKS

Comment [a496]: AKC

Comment [a497]: AKC

Course Code: UG BCOM-H-GE-T-03
Course Title: MACRO ECONOMICS
Generic Course; Credit-6; Full Marks-75

Comment [a498]: AKB

COURSE CONTENTS:

6. **Introduction**
 Macroeconomics- Concept, Difference with microeconomics, Concept of basic variables of macroeconomics.
7. **National Income Accounting**
 Concepts and measurement of National Income, Circular flow of income, Real and nominal GDP, GDP deflator, Alternative approaches of measuring national income – Income method, Expenditure method, Value-added method; Difficulties in Measurement of NI.
8. **Determination of Equilibrium Level of Income**
 Simple Keynesian Model, Consumption, Savings and Investment Function, Concept of multiplier – Government expenditure multiplier and Tax multiplier, Investment multiplier and Balanced budget multiplier.
9. **Commodity Market and Money Market Equilibrium**
 Concept of commodity market and money market equilibrium, Demand and supply of money – Transaction demand of money and speculative demand of money, Derivation of IS and LM curves, Shifts of IS & LM curves, Monetary and Fiscal policy in ISLM.
10. **Money and Inflation**
 Measures of money supply; Quantity Theory of Money; Concept of inflation, Demand-pull and cost-push inflation, Inflationary gap; Effects of Inflation; Monetary and fiscal policies to control inflation.

Course Code: UG BCOM-H-SEC-T+P-01A
Course Title: E-COMMERCE AND COMPUTER APPLICATIONS IN BUSINESS
Skill Enhancement Course; Credit-2; Full Marks-50

COURSE CONTENTS:

5. **Introduction - Limitation of conventional commerce, Origin of E-Commerce, Evolution of E-Commerce, E-Commerce and E-Business, Definition of E-Commerce, Features of E-Commerce, M-Commerce-The concept- How it is done- Purposes of use.**
6. **Models of E-Commerce- Concepts and examples Business - to - Business (B2B), Business - to - Consumer (B2C), Consumer - to - Consumer (C2C), Consumer - to - Business (C2B), Business - to - Government (B2G), Government - to - Business (G2B), Government - to - Citizen (G2C).**

Comment [a499]: JD

7. Digital Money Transactions

Methods of e-payments [Debit Card, Credit Card, Smart Cards, e-Money], electronic or digital wallet, digital signature (procedures, working and legal provisions), payment gateways[Core Banking Solution or CBS, Mobile Payment, UPI, NCPI, International Payments], Online banking [meaning, concepts, importance, electronic fund transfer, automated clearinghouse, automated ledger posting]; Risks involved in e-payments.

Comment [a500]: TKB

8. E-Commerce in India

Comment [a501]: AKC

Module II

COMPUTER APPLICATIONS IN BUSINESS (Practical)

COURSE CONTENTS:

Accounting and Related Software

3. Tally (Current Version):

Comment [a502]: TKS

- (f) Creation of Masters- Creation of Company, Creation of Ledgers, Creation of Stock Items, Creation of Manufacturing voucher type.
- (g) Activation of GST option, Activation of Debit Note / Credit Note.
- (h) Passing of Accounting Voucher Entries (including inventory and GST) in – (i) Receipt, (ii) Payment, (iii) Contra, (iv) Purchase, (v) Sales, (vi) Debit Note, (vii) Credit Note, and (viii) Journal, modes.
- (i) Passing of Inventory Voucher Entries- Manufacturing type.
- (j) Preparation of Bank Reconciliation Statement.

4. Excel

Comment [a503]: JD

- (h) Insertion and deletion of Column/ Row/ Sheet.
- (i) Change of Column Width.
- (j) Freezing of Column & Row.
- (k) Sorting- Single column and Multi Column (i.e. data base).
- (l) Linking of one cell with another in the same sheet/ another sheet.
- (m) Autosum and Formula copy with fill handle.
- (n) Preparation of Chart- Column Chart, Bar Chart, Pie Chart, and Line Chart.

B.COM. (GENERAL) SEMESTER-III
Course Code: UG BCOM-G-CC-T-07
Course Title: FINANCIAL ACCOUNTING - 2
Core Course; Credit-6; Full Marks-75
Session 2021-2022 (July-Dec)

COURSE CONTENTS:

1. Insurance Claim for Loss of Stock (simple problem).

Comment [a504]: AKC

2. Partnership Accounts:

Comment [a505]: JD

- (a) Profit and Loss Appropriation accounts; Capital & Current A/C; Guarantee – by firm, by partner and both; Correction of appropriation items with retrospective effect.
- (b) Changes in constitution of firm – Change in profit sharing ratio, Admission, Retirement, Retirement cum Admission—treatment of Goodwill, revaluation of assets and liabilities, treatment of reserves and adjustment relating to capital; treatment of Joint Life Policy, Death of a Partner.
- (c) Dissolution of Firm – excluding piecemeal distribution.

3. Branch Accounting:

Comment [a506]: PN

Synthetic Method: Preparation of Branch account, Branch Trading and P/L account (at cost & at Invoice Price)- normal and abnormal losses.
 Analytical Method: Preparation of Branch stock adjustment account (at cost & at Invoice Price)- normal and abnormal losses.

4. Hire purchase and installment payment system:

Comment [a507]: TKS

Recording of Transactions in the books of buyer – Allocation of interest – Use of Interest Suspense Account—Partial and Complete Repossession.
Books of seller – Stock and Debtor Account (with repossession).

5. **Departmental Accounts:**

Appropriation of common cost; preparation of Departmental Trading and P/L Account. Consolidated Trading and P/L Account; inter departmental transfer of goods at cost, cost plus and at selling price and elimination of unrealized profit.

Comment [a508]: TKS

6. **Investment Accounts:** Preparation of Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right) and Debentures – treatment of brokerage, cum & ex-interest and cum & ex-dividend, transfer of securities. (Simple Problems).

Comment [a509]: SPC

B.COM. (GENERAL) SEMESTER-III
Course Code: UG BCOM-G-CC-T-08
Course Title: INCOME TAX LAW
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. (a) **Basic Concepts and Definitions under Income Tax Act, 1961:** Person, Assessee, Previous year, Assessment year, Income, Sources of income, Heads of income, Gross total income, Total income, Tax evasion, Tax avoidance, Tax planning.

Comment [a510]: AKC

(b) **Residential Status** of an individual and Incidence of Tax.

Comment [a511]: JD

(c) **Fully Exempted income** of an Individual.

Comment [a512]: TKS

(d) **Agricultural Income:** Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both Agricultural and Non-agricultural income.

Comment [a513]: TKS

2. **Heads of Income and Provisions governing Heads of Income:**

(a) **Income from Salaries.**

Comment [a514]: AKC

(b) **Income from House Property.**

Comment [a515]: JD

(c) **Profits and Gains from Business or Profession:** Special emphasis on section 28, 32, 35, 35D, 35DDA, 36, 37, 40A(2), 40A(3), 43B.

Comment [a516]: TKS

(d) **Capital Gain:** Meaning and types of Capital Assets, basic concept of Transfer, Cost of Acquisition, Cost of Improvement and Indexation, Computation of Short Term Capital Gain and Long Term Capital Gain, Taxability of Short Term Capital Gain and Long Term Capital Gain.

Comment [a517]: TKS

(e) **Income from Other Sources (excluding Dividend):** Basic concepts.

Comment [a518]: TKS

3. **Deductions from Gross Total Income:** Basic concepts - deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80CCF, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80TTA, 80U.

Comment [a519]: JD

4. **Computation of Total Income and Tax Liability of an Individual.**

Comment [a520]: TKS

5. **Assessment of Income:** Self Assessment u/s 140A, Summary Assessment u/s 143(1), Scrutiny Assessment u/s 143(3), Best Judgment Assessment u/s 144 and Income Escaping Assessment u/s 147.

Comment [a521]: JD

If any new provisions are enacted in place of the existing provisions, the syllabus will stand modified accordingly with effect from such date as may be prescribed by UNIVERSITY OF KALYANI.

B.COM. (GENERAL) SEMESTER-III

Course Code: UG BCOM-G-SEC-T+P-01A

Course Title: E-COMMERCE AND COMPUTER APPLICATIONS IN BUSINESS

Skill Enhancement Course; Credit-2; Full Marks-50

Module I

E-COMMERCE (Theory)

COURSE OBJECTIVE:

The objective is to enable the student to become familiar with the mechanism for conducting business transactions through electronic means.

COURSE CONTENTS:

1. **Introduction** - Limitation of conventional commerce, Origin of E-Commerce, Evolution of E-

Comment [a522]: JD

Commerce, E-Commerce and E-Business, Definition of E-Commerce, Features of E-Commerce, M-Commerce-The concept- How it is done- Purposes of use.

2. **Models of E-Commerce**- Concepts and examples Business - to - Business (B2B), Business - to - Consumer (B2C), Consumer - to - Consumer (C2C), Consumer - to - Business (C2B), Business - to - Government (B2G), Government - to - Business (G2B), Government - to - Citizen (G2C).

Comment [a523]: JD

3. **E-CRM and SCM**

E-CRM-definition, features, goals of E-CRM business framework, phases of E-CRM, types of E- CRM, Functional components of E-CRM, strategies for E-CRM solutions; SCM-definition, features, types of supply chain.

Comment [a524]: TKS

4. **Digital Money Transactions**

Methods of e-payments [Debit Card, Credit Card, Smart Cards, e-Money], electronic or digital wallet, digital signature (procedures, working and legal provisions), payment gateways[Core Banking Solution or CBS, Mobile Payment, UPI, NCPI, International Payments], Online banking [meaning, concepts, importance, electronic fund transfer, automated clearinghouse, automated ledger posting]; Risks involved in e-payments.

Comment [a525]: TKS

5. **E-Commerce in India.**

Comment [a526]: TKS

Module II

COMPUTER APPLICATIONS IN BUSINESS (Practical)

COURSE CONTENTS:

Accounting and Related Software

1. **Tally (Current Version):**

(a) Creation of Masters- Creation of Company, Creation of Ledgers, Creation of Stock Items, Creation of Manufacturing voucher type.

(b) Activation of GST option, Activation of Debit Note / Credit Note.

(c) Passing of Accounting Voucher Entries (including inventory and GST) in – (i) Receipt, (ii) Payment, (iii) Contra, (iv) Purchase, (v) Sales, (vi) Debit Note, (vii) Credit Note, and (viii) Journal, modes.

(d) Passing of Inventory Voucher Entries- Manufacturing type.

(e) Preparation of Bank Reconciliation Statement.

Comment [a527]: TKS

2. **Excel**

(a) Insertion and deletion of Column/ Row/ Sheet.

(b) Change of Column Width.

(c) Freezing of Column & Row.

(d) Sorting- Single column and Multi Column (i.e. data base).

(e) Linking of one cell with another in the same sheet/ another sheet.

(f) Autosum and Formula copy with fill handle.

(g) Preparation of Chart- Column Chart, Bar Chart, Pie Chart, and Line Chart.

Comment [a528]: JD

B.COM. (HONOURS) SEMESTER-V
Course Code: UG BCOM-H-CC-T-11
Course Title: CORPORATE ACCOUNTING
Core Course; Credit-6; Full Marks-75
Session 2021-2022 (July-Dec)

COURSE CONTENTS:

1. **Schedule III (Division I) to the Companies Act, 2013.**

2. **Final Accounts of Companies:** Preparation of Statement of Profit & Loss and Balance Sheet as

Comment [a529]: AKC

Comment [a530]: JD

per Schedule III (Division I) to the Companies Act, 2013.

3. **Redemption of Preference Shares and Debentures.**
4. **Accounting of Limited Liability Partnership.**
5. **Reconstruction of Companies:** Meaning of Internal and External Reconstruction of companies, Concept of and accounting for Amalgamation as per Accounting Standard - 14, excluding inter-company holdings); Accounting for Internal Reconstruction (excluding preparation of scheme of reconstruction).
6. **Valuation:** Valuation of Goodwill and Shares.
7. **Holding Company:** Preparation of Consolidated Balance Sheet as per Accounting Standard - 21 (excluding problems on chain and cross holding).

Comment [a531]: PN/SPC

Comment [a532]: TKS

Comment [a533]: TKS

Comment [a534]: AKC

Comment [a535]: PN

Course Code: UG BCOM-H-CC-T-12

Course Title: AUDITING

Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction:** Definition of Audit, Difference between audit and assurance, concept and objectives of independent financial audit, Types of audit- Internal audit, Independent financial audit, Cost audit, Tax audit, Management audit, Secretarial audit. Types of tests- Substantive test and Compliance test, Concept of 'true & fair' and 'materiality'.
2. **Internal Control:** Concept of- Internal check, Internal control, and Internal financial control. Importance of Internal check & Internal control for the purpose of audit. Questionnaire for verification of Internal control. Provision of the Companies Act 2013 in relation to Internal financial controls- (i) Explanation- Section 134(5)(e); (ii) Reporting requirement- 143(3)(i).
3. **Vouching & Verification (Substantive Test):** Vouching- Meaning, Objectives-Vouching of different items (Receipts and Payments related). Verification- Concept & Objectives; Verification of Share Capital, Loans (secured and unsecured), Fixed assets (Building, Plant and Machinery), Loans and Advances, Investment, Goodwill, Copy Right, Patent Right, Inventories, Debtors, Creditors.
4. **Audit of Limited Companies:** Appointment (section 139), removal & resignation of auditors (section 140), Eligibility, Qualifications and disqualifications of auditors (section 141), Remuneration of auditors (section 142), Mandatory compliance of Auditing Standards [Section 143 (9) & (10)].
5. **Auditors' Report:** Definition; Distinction between Report and Certificate; Types of Opinion- (i) Unmodified or Clean, (ii) Qualified, (iii) Negative (iv) Disclaimer; Format of audit report (SA 700, SA 705 & SA 706).

Comment [a536]: JD

Comment [a537]: SPC

Comment [a538]: AKC

Comment [a539]: PN

Comment [a540]: PN

Course Code: UG BCOM-H-DSE-T-01A

Course Title: BUSINESS COMMUNICATION AND ENTREPRENEURSHIP DEVELOPMENT

Discipline Specific Course; Credit-6; Full Marks-75 Module I

BUSINESS COMMUNICATION

Comment [a541]: SPC

COURSE CONTENTS:

1. **Business Communication:** Introduction, Definition, Objectives, Importance, Elements, Types of Communication – Formal and informal, Level of Analysis of Business Communication, Principles of Effective Communication.
2. **Significance of Communication, Business Productivity, Inter Group and Intra-Group Conflict, Conflict Resolution and Group Cohesiveness.**
3. **Management Information System (MIS):** Definition, Elements, Need, Function, Use of IT in MIS (Conceptual), Role of MIS in Decision Making, Decision Support System (DSS).
4. **Tools of Communication:** Emergence of Communication Technology, Modern forms of Communication, Fax, E-Mail, and Video Conferencing.
5. **Practice in Effective Communication:** Drafting Notice, Circular, Minute, Resolution, Report, CV writing, Business Letter Writing, Office Letter, Status Enquiry, Quotation Order Confirmation, Execution, Refusal and Cancellation of Order, Recommendation, Credit Collection, Claim, Bank Loan.

COURSE OBJECTIVE:

Module II **ENTREPRENEURSHIP DEVELOPMENT**

Comment [a542]: TKS

The objective is to orient the learner toward entrepreneurship as a career option and creative thinking and behaviour.

COURSE CONTENTS:

1. Introduction: Meaning and Concept of Entrepreneurship, Elements, Determinants and Importance of Entrepreneurship, Role and Creativity, Characteristics, Function and Qualities of Entrepreneur.
2. Entrepreneurship Roles in Different Business Environment: Small, Micro & Medium Business Enterprises, Family Venture, Corporate Entrepreneurship, Role of Government as Entrepreneur.
3. Entrepreneur and Law: Legal protection of innovations-Patents, Trademarks and Copyrights-Intellectual Property Right.
4. Financing of New Ventures: Methods of Financing Equity Financing, Venture Capital Debt Financing and Governmental Grants.
5. Project Planning and Feasibility Studies: Methods of preparation of Project Plans and conducting Feasibility Studies.

Course Code: UG BCOM-H-DSE-T-02A
Course Title: ACCOUNTING FOR LOCAL BODIES
Discipline Specific Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept of local bodies; Salient features of 73rd Amendment of the Constitution in 1992, Article 243J- Audit of Accounts.
2. Provisions related to Accounts in the West Bengal Panchayat Act, 1973: Some important provisions of – (a) West Bengal Panchayat (Zilla Parishad and Panchayat Samiti) Accounts and Finance Rules 2003, (b) West Bengal Panchayat (Gram Panchayat Accounts, Audit and Budget) Rules 2007.
3. Financial Statements of Municipalities: Balance Sheet, Income & Expenditure Account, Statement of Cash Flows, Receipts and Payments Account, and Notes to Accounts (Refer National Municipal Accounts Manual, 2004); Important contents of the Accounting Manual for Urban Local Bodies, 2006, of the Govt. of West Bengal: Part 1: Introduction to Double Entry Accrual- based Accounting Para 4- New Accounting System (i.e. double entry accrual system of accounting); Para 6- Accounting Documents; Para 7- Financial Statements; Para 9- Fundamental Accounting Assumptions. Part 5: Forms and Formats.
4. Accounting Standards: Overview of Accounting Standards for Local Bodies issued by the Institute of Chartered Accountants of India.
5. Financial Statements of PRIs (Panchayat Raj Institutions) and Municipalities: problem solutions; Software for Preparation of Financial Statements.

Comment [a543]: AKC

Comment [a544]: JD

Comment [a545]: SPC

Comment [a546]: TKS

Comment [a547]: TKS

Note- Evaluation of Answer Scripts is to be made by internal teachers of concerned college.

B.COM. (GENERAL) SEMESTER-V

Course Code: UG BCOM-G-DSE-T-01A

Course Title: BUSINESS COMMUNICATION AND ENTREPRENEURSHIP DEVELOPMENT

Discipline Specific Course; Credit-6; Full Marks-75 Module I

Session 2021-2022 (July-Dec)

BUSINESS COMMUNICATION

Comment [a548]: SPC

COURSE CONTENTS:

1. Business Communication: Introduction, Definition, Objectives, Importance, Elements, Types of Communication – Formal and informal, Level of Analysis of Business Communication, Principles of Effective Communication.
2. Significance of Communication, Business Productivity, Inter Group and Intra-Group Conflict, Conflict Resolution and Group Cohesiveness.

3. Management Information System (MIS): Definition, Elements, Need, Function, Use of IT in MIS (Conceptual), Role of MIS in Decision Making, Decision Support System (DSS).
4. Tools of Communication: Emergence of Communication Technology, Modern forms of Communication, Fax, E-Mail, and Video Conferencing.
5. Practice in Effective Communication: Drafting Notice, Circular, Minute, Resolution, Report, CV writing, Business Letter Writing, Office Letter, Status Enquiry, Quotation Order Confirmation, Execution, Refusal and Cancellation of Order, Recommendation, Credit Collection, Claim, Bank Loan.

Module II

ENTREPRENEURSHIP DEVELOPMENT

Comment [a549]: TKS

The objective is to orient the learner toward entrepreneurship as a career option and creative thinking and behaviour.

COURSE CONTENTS:

1. Introduction: Meaning and Concept of Entrepreneurship, Elements, Determinants and Importance of Entrepreneurship, Role and Creativity, Characteristics, Function and Qualities of Entrepreneur.
2. Entrepreneurship Roles in Different Business Environment: Small, Micro & Medium Business Enterprises, Family Venture, Corporate Entrepreneurship, Role of Government as Entrepreneur.
3. Entrepreneur and Law: Legal protection of innovations-Patents, Trademarks and Copyrights-Intellectual Property Right.
4. Financing of New Ventures: Methods of Financing Equity Financing, Venture Capital Debt Financing and Governmental Grants.
5. Project Planning and Feasibility Studies: Methods of preparation of Project Plans and conducting Feasibility Studies.

Course Code: UG BCOM-G-DSE-T-02A
Course Title: ACCOUNTING FOR LOCAL BODIES
Discipline Specific Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. Introduction: Concept of local bodies; Salient features of 73rd Amendment of the Constitution in 1992, Article 243J- Audit of Accounts.
 2. Provisions related to Accounts in the West Bengal Panchayat Act, 1973: Some important provisions of – (a) West Bengal Panchayat (Zilla Parishad and Panchayat Samiti) Accounts and Finance Rules 2003, (b) West Bengal Panchayat (Gram Panchayat Accounts, Audit and Budget) Rules 2007.
 3. Financial Statements of Municipalities: Balance Sheet, Income & Expenditure Account, Statement of Cash Flows, Receipts and Payments Account, and Notes to Accounts (Refer National Municipal Accounts Manual, 2004);
Important contents of the Accounting Manual for Urban Local Bodies, 2006, of the Govt. of West Bengal: Part 1: Introduction to Double Entry Accrual- based Accounting Para 4- New Accounting System (i.e. double entry accrual system of accounting); Para 6- Accounting Documents; Para 7- Financial Statements; Para 9- Fundamental Accounting Assumptions. Part 5: Forms and Formats.
 4. Accounting Standards: Overview of Accounting Standards for Local Bodies issued by the Institute of Chartered Accountants of India.
 5. Financial Statements of PRIs (Panchayat Raj Institutions) and Municipalities: problem solutions; Software for Preparation of Financial Statements.
- Note- Evaluation of Answer Scripts is to be made by internal teachers of concerned college

Comment [a550]: AKC

Comment [a551]: JD

Comment [a552]: SPC

Comment [a553]: TKS

Comment [a554]: TKS

B.COM. (GENERAL) SEMESTER-V
Course Code: UG BCOM-G-GE-T-01
Course Title: BUSINESS MATHEMATICS AND STATISTICS

Generic Course; Credit-6; Full Marks-75**Module I BUSINESS MATHEMATICS****Comment [a555]: SS****COURSE CONTENTS:**

1. (A) Logarithm: Meaning of Logarithm, General properties of Logarithm, Common Problems.
(B) Laws of Indices.
2. (A) A.P. Series: Definition, Common difference, General term, A.M., Sum of first n terms of an A.P., Sum of an infinite A.P. Series.
(B) G.P. Series: Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P., Sum of an infinite G.P. Series.
(C) Compound Interest & Annuities: Different types of interest rates; Concept of Present Value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds.
3. Functions, Limit, Continuity and Differentiation – Simple Problem (Without trigonometric application)

Module II STATISTICS**Comment [a556]: SJS****COURSE OBJECTIVE:**

The objective of this course is to familiarize the students with the basic statistical tools with an emphasis on applications to business and economic situations.

COURSE CONTENTS:

1. Statistical Data and Descriptive Statistics
(A) Statistical Data: Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties.
(B) Diagrammatic representation: Histogram, Frequency Polygon, Ogive, Pie chart, Line and Bar diagram.
(C) Different Measures of Central Tendency: Arithmetic Mean, Geometric Mean and Harmonic Mean, Median, Mode and Quartiles.
(D) Different Measures of Dispersion: Common measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Measures of relative dispersion.
2. Simple Correlation and Regression Analysis
(A) Correlation Analysis: Scatter diagram; Pearson's co-efficient of correlation; Rank Correlation.
(B) Regression Analysis: Regression equations and estimation [Elementary level].
3. Index Numbers: Meaning and uses of index numbers; Construction of index numbers: fixed and chain base, Problems relating to construction of index numbers, Construction of consumer price indices.

B.COM. (GENERAL) SEMESTER-V**Course Code: UG BCOM-G-SEC-T-03A****Course Title: CORPORATE ACCOUNTING AND FINANCIAL MANAGEMENT****Skill Enhancement Course; Credit-2; Full Marks-50****COURSE CONTENTS:**

1. Introduction to Company Accounts: Meaning of Company and its Classification; Books of Accounts; Maintenance of Books of Accounts; Financial Year; Financial Statements – Meaning, Forms & Contents; Concept of True and Fair View, Authentication of Financial Statements; Filing of Financial Statements.
2. Final Accounts of Companies: Preparation of Statement of Profit & Loss and Balance Sheet as per Schedule III to the Companies Act, 2013.
3. Accounting for Shares and Debentures of Company: Kinds of Share Capital; Issue, Forfeiture,

Comment [a557]: AKC**Comment [a558]: JD****Comment [a559]: SPC/PN**

Reissue of Shares; Right Shares and Bonus Shares; Issue of Debentures, Underwriting of Shares and Debentures; Redemption of Preference Shares.

4. **Sources of Finance and Cost of Capital:** Different sources of finance - long term and short term sources. Cost of capital- concept, relevance of cost of capital, specific costs and weighted average cost, rationale of after tax weighted average cost of capital, marginal cost of capital.

Comment [a560]: AKC

5. **Working Capital and Its Management:** Meaning, concept, composition, nature, types of working capital, Determining factors of working capital, Working Capital Cycle, Estimation of working capital requirements (excluding problems on extra shift working capital and working capital policy). Working Capital Management- Importance of working capital management, Working capital financing – Long-term, medium and short-term.

Comment [a561]: TKS

6. **Cash Flow Statement:** Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. Cash flow statement – Various sources and uses of cash – Preparation of cash flow statement.

Comment [a562]: SPC

7. **Valuation:** Valuation of Goodwill and Shares (Simple Problem).

Comment [a563]: PN

B.COM. (HONOURS) SEMESTER-II
Course Code: UG BCOM-H-CC-T-03
Course Title: MARKETING MANAGEMENT
Core Course; Credit-6; Full Marks-75
Session 2021-2022 (Jan –June)

COURSE CONTENTS:

1. **Introduction:** Nature and scope of marketing; Evolution of Marketing concepts; Selling vs. marketing; Marketing mix; Marketing environment.

Comment [a564]: AKC

2. **Consumer Behaviour and Market Segmentation:** Nature, scope and significance of consumer behaviour; Market segmentation – concept and importance; Bases for market segmentation.

Comment [a565]: JD

3. **Product:** Concept of product, consumer, and industrial goods; Packaging and labeling; function, Product life cycle concept.

Comment [a566]: PN

4. **Price and Promotion:** Importance of price in the marketing mix; Factors affecting price of a product. Pricing policies and strategies; Methods of promotion; Advertising, Personal selling; Sales Promotion.

Comment [a567]: PN

5. **Distribution and Retailing:** Distribution channels – concept and role; Types of distribution channels; Types of retailing – store based and non-store based retailing, chain stores, specialty stores, supermarkets; Retailing in India.

Comment [a568]: JD

Course Code: UG BCOM-H-CC-T-04
Course Title: BUSINESS LAWS Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **The Indian Contract Act, 1872**

(a) Contract – meaning, characteristics and kinds, Essentials of a valid contract.

(b) Offer and acceptance (Definition, Rules, Communication and Revocation of offer and acceptance).

(c) Consideration (Definition, Elements, Types, Rules), “No Consideration No Contract” and its exceptions; Capacity to Parties (Definition and Types).

(d) Consent, Free consent, Coercion, Undue Influence, Fraud, Misrepresentation, Mistake.

Comment [a569]: JD

(e) Legality of objects and Consideration.

(f) Void and Voidable agreements – Definition, Types and Distinction.

(g) Discharge of a contract – Modes of discharge, Breach and Remedies against breach of contract.

(h) Specific Contracts - Contingent contracts, Quasi, Contract of Indemnity, Guarantee, Bailment, Pledges.

Comment [a570]: AKC

2. **The Sale of Goods Act, 1930**

- (a) Contract of sale, meaning and difference between sale and agreement to sell.
- (b) Conditions and warranties.
- (c) Transfer of ownership in goods including sale by a non-owner.
- (d) Performance of contract of sale.
- (e) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

Comment [a571]: SPC

3. **The Partnership Act, 1932**

- (a) Definition – Partner, Partnership.
- (b) Nature and Characteristics of Partnership.
- (c) Types of Partners.
- (d) Registration of a Partnership Firms and consequences of non-registration.
- (e) Rights and Duties of Partners.
- (f) Dissolution of firms – meaning and grounds.

Comment [a572]: TKS

4. **The Limited Liability Partnership Act, 2008**

- (a) Definition.
- (b) Salient Features of LLP.
- (c) Advantages and disadvantages of LLP.
- (d) Differences between: LLP and Partnership, LLP and Company.
- (e) Incorporation of LLP.

Comment [a573]: TKS

5. **The Negotiable Instruments Act 1881**

- (a) Definition, Features, Types, Parties of Negotiable Instruments: Promissory Note, Bill of exchange, Cheque (Definition and Types).
- (b) Endorsement: Types of Endorsement.
- (c) Holder and Holder in Due Course, Privileges of Holder in Due Course.
- (d) Dishonour of Negotiable Instruments: Modes, Consequences, Notice of Dishonour; Noting and Protesting.
- (e) Discharge of Negotiable Instruments: Meaning and Modes.

Comment [a574]: SPC

(If any new provisions are enacted in place of the existing provisions, the syllabus will accordingly include such new provisions in place of existing provisions with effect from such date as prescribed by the University of Kalyani. Similarly if any existing provision becomes redundant due to changes, it will be left out of the syllabus)

Course Code: UG BCOM-H-GE-T-02
Course Title: BUSINESS MATHEMATICS AND STATISTICS
Generic Course; Credit-6; Full Marks-75

Module I **BUSINESS MATHEMATICS**

Comment [a575]: SS

COURSE CONTENTS:

- 1. (A) Logarithm: Meaning of Logarithm, General properties of Logarithm, Common Problems.
- (B) Laws of Indices.
- 2. (A) A.P. Series: Definition, Common difference, General term, A.M., Sum of first n terms of an A.P., Sum of an infinite A.P. Series.
- (B) G.P. Series: Definition, Common ratio, General term, G.M., Sum of first n terms of a G.P., Sum of an infinite G.P. Series.
- (C) Compound Interest & Annuities: Different types of interest rates; Concept of Present Value and amount of sum; Types of annuities; Present value and amount of an annuity; including the case of

continuous compounding; Valuation of simple loans and debentures; Problems relating to sinking funds.

3. Functions, Limit, Continuity and Differentiation – Simple Problem (Without trigonometric application)

Module II **STATISTICS**

Comment [a576]: SJS

COURSE CONTENTS:

1. Statistical Data and Descriptive Statistics

(A) Statistical Data: Data and different types of data; Summarization of statistical data – different types frequency distributions, their construction and their different properties.

(B) Diagrammatic representation: Histogram, Frequency Polygon, Ogive, Pie chart, Line and Bar diagram.

(C) Different Measures of Central Tendency: Arithmetic Mean, Geometric Mean and Harmonic Mean, Median, Mode and Quartiles.

(D) Different Measures of Dispersion: Common measures of dispersion – range, quartile deviation, mean deviation and standard deviation; Measures of relative dispersion.

2. Simple Correlation and Regression Analysis

(A) Correlation Analysis: Scatter diagram; Pearson's co-efficient of correlation; Rank Correlation.

(B) Regression Analysis: Regression equations and estimation [Elementary level].

3. Index Numbers: Meaning and uses of index numbers; Construction of index numbers: fixed and chain base, Problems relating to construction of index numbers, Construction of consumer price indices.

B.COM. (GENERAL) SEMESTER-II
Course Code: UG BCOM-G-CC-T-04
Course Title: MARKETING MANAGEMENT
Core Course; Credit-6; Full Marks-75
Session 2021-2022 (Jan-June)

COURSE CONTENTS:

1. **Introduction:** Nature and scope of marketing; Evolution of Marketing concepts; Selling vs. marketing; Marketing mix; Marketing environment.

Comment [a577]: AKC

2. **Consumer Behaviour** and Market Segmentation: Nature, scope and significance of consumer behaviour; Market segmentation – concept and importance; Bases for market segmentation.

Comment [a578]: JD

3. **Product:** Concept of product, consumer, and industrial goods; Packaging and labeling; function, Product life cycle concept.

Comment [a579]: PN

4. **Price and Promotion:** Importance of price in the marketing mix; Factors affecting price of a product. Pricing policies and strategies; Methods of promotion; Advertising, Personal selling; Sales Promotion.

Comment [a580]: PN

5. **Distribution and Retailing:** Distribution channels – concept and role; Types of distribution channels; Types of retailing – store based and non-store based retailing, chain stores, specialty stores, supermarkets; Retailing in India.

Comment [a581]: JD

B.COM. (GENERAL) SEMESTER-II
Course Code: UG BCOM-G-CC-T-05
Course Title: BUSINESS LAWS Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **The Indian Contract Act, 1872**

(a) Contract – meaning, characteristics and kinds, Essentials of a valid contract.

(b) Offer and acceptance (Definition, Rules, Communication and Revocation of offer and acceptance).

(c) Consideration (Definition, Elements, Types, Rules), “No Consideration No Contract” and its

exceptions; Capacity to Parties (Definition and Types).

- (d) Consent, Free consent, Coercion, Undue Influence, Fraud, Misrepresentation, Mistake.
- (e) Legality of objects and Consideration.
- (f) Void and Voidable agreements – Definition, Types and Distinction.
- (g) Discharge of a contract – Modes of discharge, Breach and Remedies against breach of contract.
- (h) Specific Contracts - Contingent contracts, Quasi, Contract of Indemnity, Guarantee, Bailment, Pledges.

Comment [a582]: JD

Comment [a583]: AKC

2. The Sale of Goods Act, 1930

- (a) Contract of sale, meaning and difference between sale and agreement to sell.
- (b) Conditions and warranties.
- (c) Transfer of ownership in goods including sale by a non-owner.
- (d) Performance of contract of sale.
- (e) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

Comment [a584]: SPC

3. The Partnership Act, 1932

- (a) Definition – Partner, Partnership.
- (b) Nature and Characteristics of Partnership.
- (c) Types of Partners.
- (d) Registration of a Partnership Firms and consequences of non-registration.
- (e) Rights and Duties of Partners.
- (f) Dissolution of firms – meaning and grounds.

Comment [a585]: TKS

4. The Limited Liability Partnership Act, 2008

- (a) Definition.
- (b) Salient Features of LLP.
- (c) Advantages and disadvantages of LLP.
- (d) Differences between: LLP and Partnership, LLP and Company.
- (e) Incorporation of LLP.

Comment [a586]: TKS

5. The Negotiable Instruments Act 1881

- (a) Definition, Features, Types, Parties of Negotiable Instruments: Promissory Note, Bill of exchange, Cheque (Definition and Types).
- (b) Endorsement: Types of Endorsement.
- (c) Holder and Holder in Due Course, Privileges of Holder in Due Course.
- (d) Dishonour of Negotiable Instruments: Modes, Consequences, Notice of Dishonour; Noting and Protesting.
- (e) Discharge of Negotiable Instruments: Meaning and Modes.

Comment [a587]: SPC

(If any new provisions are enacted in place of the existing provisions, the syllabus will accordingly include such new provisions in place of existing provisions with effect from such date as prescribed by the University of Kalyani. Similarly if any existing provision becomes redundant due to changes, it will be left out of the syllabus)

SEMESTER-IV
Course Code: UG BCOM-H-CC-T-08
Course Title: COST ACCOUNTING
Core Course; Credit-6; Full Marks-75
Session 2021-2022 (Jan-June)

COURSE CONTENTS:

- 1. **Introduction:** Meaning and Objectives of Cost Accounting, Difference between Cost Accounting, Financial Accounting and Management Accounting, Cost Unit, Cost Centre, Investment Centre & Profit Centre – Cost Accounting System – Installing of Cost Accounting System – Essentials of good Cost

Comment [a588]: SPC

Accounting System. Methods and Techniques of Costing.

2. **Costs:** Meaning of cost, Various concepts of costs (Direct cost, Indirect costs, Period cost, Conversion cost, Sunk cost, Opportunity cost, etc.), Cost classification based on Elements, Functions & Behaviour, Preparation of Cost Sheet including Budgeted Cost Sheet.

Comment [a589]: AKC

3. **Material Costs:** Importance of Materials Cost, Constituents of material cost; Centralised & Decentralised Purchase of Materials, Purchase Procedure, Documents; Storage of Materials: Storage records; Material Control: Stock Levels (Maximum, Minimum, Re-Order & Danger Level), Meaning of Economic Order Quantity and its applications, Periodic Inventory vs. Perpetual Inventory, ABC Analysis, VED Analysis, JIT Inventory; Different Methods for Pricing the Issue of Material: FIFO, LIFO, Simple, Weighted & Periodic Average Methods, Preparation of Store Ledger; Accounting for material cost.

Comment [a590]: SPC

4. **Labour Costs:** Accounting and Control of labour cost, Time keeping and time booking, Methods of wage payment (Piece rate, Differential piece rate, Time rate), Incentive schemes for workers (Halsey, Rowan, Halsey-Weir), Measurement of Efficiency of a workers. Concept and treatment of idle time, over time, labour turnover and fringe benefits.

Comment [a591]: TKS

5. **Overhead Costs:** Classification, allocation, apportionment and absorption of overheads; Meaning, Concept & Reasons for Under- absorption and over-absorption of Overhead and treatment in Cost Accounting; Capacity Levels and Costs; Treatments of certain items in costing like interest on capital, packing expenses, bad debts, research and development expenses; Activity based cost allocation.

Comment [a592]: PN

6. **Contract Costing:** Meaning, Features, Costing Procedure, Fixed Price Contract & Cost Plus Contract, Escalation & De-escalation Clause, Retention Money, Treatment of Profit and Loss on Incomplete Contract, Preparation of Contract Account.

Comment [a593]: SPC

7. **Process Costing:** Meaning, Features, Applicability, Preparation of Process Account, Treatment of Normal Loss, Abnormal Loss & Abnormal Gain, Loss of Income, etc. in Cost Accounting, Inter Process Profit, By-Product & Joint-Product (Meaning and Distinction).

Comment [a594]: SPC

8. **Operating Costing:** Meaning & Concepts, Areas of Application, Different Services and their Composite Units, Computation of Composite Unit Cost.

9. **Cost Control Accounts** (non-integrated systems only): Journal Entries, Ledger Account, Costing Profit & Loss Account; Reasons for Variation between Profit as per Cost Accounts & Profit as per Financial Accounts, Simple Problems on Reconciliation of the Two Profits.

Comment [a595]: TKS

Course Code: UG BCOM-H-CC-T-09**Course Title: INDIRECT TAX LAWS Core Course; Credit-6; Full Marks-75**

COURSE CONTENTS:

1. **Introduction:** Concept and types of indirect tax. Right to impose indirect taxes (by Centre and States/Union Territories) before and after 101st Amendment of Constitution. Introduction of Goods & Services Tax (GST); Indirect taxes subsumed by GST; Goods kept outside the purview of GST; Formation of GST Council; Date of effect and the non-taxable territory; Types of GST- Central GST (governed by The Central Goods & Services Tax Act 2017), State/UT GST (governed by The State Goods & Services Tax Act 2017 of each State/ Union Territory) and Integrated GST (governed by The Integrated Goods & Services Tax Act 2017).

Comment [a596]: JD

2. **Supply:** Levy of tax on "Supply"; Definition of supply; Intra-State and Inter-State supply; Composite and Mixed supply; Supplies of goods and services liable to be reverse charged, Composition levy.

Comment [a597]: JD

3. (i) **Registration:** Persons liable to registration; Compulsory registration; Procedure of

Comment [a598]: AKC

Registration.

(ii) **Documentation:** Tax Invoice; Bill of Supply, Receipt Voucher, Payment Voucher, Refund Voucher, Debit Note, Credit Note. Harmonized System Nomenclature (HSN) of Goods, and Service Accounting Code (SAC) of Services; Nil rated supplies, Zero rated supplies, Exempted supplies & Non-GST supplies.

Comment [a599]: AKC

4. **Input Tax Credit:** Eligibility and conditions for taking input tax credit; Apportionment of input credit and blocked credits;

Comment [a600]: TKS

5. (i) **GST Returns:** GSTR 1, GSTR 2 and GSTR 3, Time and procedure of filing of Returns.
(ii) Payment of Tax: (a) Through Input Tax Credit (b) By cash/bank after generation of online Challan.

Comment [a601]: TKS

Course Code: UG BCOM-H-CC-T-10

Course Title: COMPANY LAW Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

(i) **Introduction:** Basic features of Companies Act 2013, Types of companies-Company limited by Guarantee, Company limited by Shares, Unlimited Company, Private company, public company, one person company, small company, dormant company, associate company, government company, Holding Company, Subsidiary Company; Concept of corporate veil, Doctrine of lifting corporate veil.

Comment [a602]: PN

(ii) **Documents:** Meaning, contents and alteration of Memorandum of Association, Doctrine of Ultra Vires, Meaning, contents and alteration of Article of Association, Doctrine of Indoor Management; Meaning and contents of Prospectus, abridged prospectus, shelf prospectus, red- herring prospectus, misstatement in a prospectus.

Comment [a603]: AKC

(iii) **Formation of Company:** Meaning, Legal Position and Functions of Promoter, Steps in formation of a Company, procedure for registration and incorporation, certificate of incorporation and commencement of business.

Comment [a604]: SPC

(iv) **Management:** Classification of directors, director identification number (DIN), qualification, disqualification, appointment, legal position; number of directorship ; removal, resignation of director, duties, liabilities, powers of board of directors; Key Managerial Personnel (Definition, Appointment and Qualifications) – Managing Director, Whole time Directors, Companies Secretary, Chief Financial Officer, Resident Director, Independent Director, Women Director.

Comment [a605]: SPC

(v) **Company Meetings:** Meetings of shareholders and board of directors; Types of meetings, Convening and conduct of meetings, Requisites of a valid meeting, postal ballot, meeting through videoconferencing, e-voting.

Comment [a606]: PN

Course Code: UG BCOM-H-GE-T-04

Course Title: INDIAN ECONOMICS

Generic Course; Credit-6; Full Marks-75

Comment [a607]: AKB

COURSE CONTENTS:

1. Basic Issues of Economic Development: Concept and Measures of Development and Underdevelopment; Human Development Index; Human Capital-Meaning and Importance.

2. Basic Issues of Indian Economy: Features of Indian Economy; Sectoral distribution of National Income; Structural Change in Indian Economy; Problem of Poverty, Poverty alleviation measures; Problem of Unemployment and the policy measures; Population Growth and Economic Development.

3. Agricultural Sector: Problems of Indian agriculture; Land Reforms; Green Revolution and its impact; Problems of Rural Credit and Marketing; Co-operative Farming.

4. Industrial Sector: Industrial Labour; Industrial Sickness; Small Scale and Cottage Industry; Industrial Policy-Role of Public Sector; Its performance and issue of Disinvestment-Privatisation.

5. External Sector: Foreign Capital: Components; Need of Foreign Capital; Policy towards Foreign Capital; Foreign Investment since 1991; Globalisation- Meaning and Impact; International Institutions- WTO, World Bank, IMF.

Course Code: UG BCOM-H-SEC-T-02A
Course Title: TAX RETURNS AND FILING OF TAX RETURNS
Skill Enhancement Course; Credit-2; Full Marks-50

COURSE CONTENTS:

- A. **Returns under Income Tax (10 Marks)**
1. PAN and TAN- Procedure for application of PAN/TAN.
 2. (a) Payment of Advance Tax and Self Assessment Tax.
(b) Interest- Interest u/s 234A, 234B, 234C, (simple problems).
 3. Filing of Returns- Due dates of filing of Returns- Section 139(1); Section 139(4) [after due date]; Section 139(5) [Revised Return]; Section 139(9) [Defective Return]; Section 142 (1) [Notice to submit Return]. Different types of Returns and Due dates for filing of those Returns.
 4. Procedure of filing e-Return- ITR 1 only.
- B. **Returns under Goods and Services Tax (10 Marks)**
1. Different types of Taxable Persons and Returns to be submitted by them; Due dates for filing of Returns.
 2. Procedure of filing e-Return- GSTR 1 and GSTR 4 only.
- C. **Practical on hard copy of ITR 1(20 Marks)**

Comment [a608]: JD

Comment [a609]: TKS

Comment [a610]: AKC

Comment [a611]: JD/TKS

B.COM. (GENERAL)
SEMESTER-IV
Course Code: UG BCOM-G-CC-T-10
Course Title: COST ACCOUNTING Core Course; Credit-6; Full Marks-75
Session 2021-2022 (Jan-June)

COURSE CONTENTS:

1. **Introduction: Meaning** and Objectives of Cost Accounting, Difference between Cost Accounting, Financial Accounting and Management Accounting, Cost Unit, Cost Centre, Investment Centre & Profit Centre – Cost Accounting System – Installing of Cost Accounting System – Essentials of good Cost Accounting System. Methods and Techniques of Costing.
2. **Costs: Meaning** of cost, Various concepts of costs (Direct cost, Indirect costs, Period cost, Conversion cost, Sunk cost, Opportunity cost, etc.), Cost classification based on Elements, Functions & Behaviour, Preparation of Cost Sheet including Budgeted Cost Sheet.
3. **Material Costs: Importance** of Materials Cost, Constituents of material cost; Centralised & Decentralised Purchase of Materials, Purchase Procedure, Documents; Storage of Materials: Storage records; Material Control: Stock Levels (Maximum, Minimum, Re-Order & Danger Level), Meaning of Economic Order Quantity and its applications, Periodic Inventory vs. Perpetual Inventory, ABC Analysis, VED Analysis, JIT Inventory; Different Methods for Pricing the Issue of Material: FIFO, LIFO, Simple, Weighted & Periodic Average Methods, Preparation of Store Ledger; Accounting for material cost.
4. **Labour Costs: Accounting** and Control of labour cost, Time keeping and time booking, Methods of wage payment (Piece rate, Differential piece rate, Time rate), Incentive schemes for workers (Halsey, Rowan, Halsey-Weir), Measurement of Efficiency of a workers.
5. **Overhead Costs: Classification**, allocation, apportionment and absorption of overheads; Meaning, Concept & Reasons for under-absorption and over-absorption of Overhead and treatment in Cost Accounting; Capacity Levels and Costs.
6. **Contract Costing: Meaning**, Features, Costing Procedure, Fixed Price Contract & Cost Plus

Comment [a612]: SPC

Comment [a613]: AKC

Comment [a614]: SPC

Comment [a615]: TKS

Comment [a616]: PN

Comment [a617]: AKC

Contract, Escalation & De-escalation Clause, Retention Money, Preparation of Contract Account.

7. **Budget and Budgetary Control:** Concept of budget and budgetary control. Principal Budget Factors, Preparation of Functional budgets (Sales, Purchase, Production, etc.), cash budget, fixed and flexible budgets; Concept of Master Budget.

Comment [a618]: SPC

Course Code: UG BCOM-G-CC-T-11
Course Title: INDIRECT TAX LAWS
Core Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction:** Concept and types of indirect tax. Right to impose indirect taxes (by Centre and States/Union Territories) before and after 101st Amendment of Constitution. Introduction of Goods & Services Tax (GST); Indirect taxes subsumed by GST; Goods kept outside the purview of GST; Formation of GST Council; Date of effect and the non-taxable territory; Types of GST- Central GST (governed by The Central Goods & Services Tax Act 2017), State/UT GST (governed by The State Goods & Services Tax Act 2017 of each State/ Union Territory) and Integrated GST (governed by The Integrated Goods & Services Tax Act 2017).

Comment [a619]: JD

2. **Supply:** Levy of tax on "Supply"; Definition of supply; Intra-State and Inter-State supply; Composite and Mixed supply; Supplies of goods and services liable to be reverse charged, Composition levy.

Comment [a620]: JD

3. (i) **Registration:** Persons liable to registration; Compulsory registration; Procedure of Registration.

(ii) **Documentation:** Tax Invoice; Bill of Supply, Receipt Voucher, Payment Voucher, Refund Voucher, Debit Note, Credit Note. Harmonized System Nomenclature (HSN) of Goods, and Service Accounting Code (SAC) of Services; Nil rated supplies, Zero rated supplies, Exempted supplies & Non-GST supplies.

Comment [a621]: AKC

4. **Input Tax Credit:** Eligibility and conditions for taking input tax credit; Apportionment of input credit and blocked credit.

5. (i) **GST Returns:** GSTR 1, GSTR 2 and GSTR 3, Time and procedure of filing of Returns.
 (ii) **Payment of Tax:** (a) Through Input Tax Credit (b) By cash/bank after generation of online Challan.

Comment [a622]: TKS

Course Code: UG BCOM-G-SEC-T-02A
Course Title: TAX RETURNS AND FILING OF TAX RETURNS
Skill Enhancement Course; Credit-2; Full Marks-50

COURSE OBJECTIVE:

To acquaint the students of the actual practice of filing Tax Returns so that in future they can opt for self-employment in Tax matters.

COURSE CONTENTS:

A. **Returns under Income Tax (10 Marks)**

Comment [a623]: JD

1. PAN and TAN- Procedure for application of PAN/TAN.

2. (a) Payment of Advance Tax, and Self Assessment Tax.

(b) Interest- Interest u/s 234A, 234B, 234C, (simple problems).

3. Filing of Returns- Due dates of filing of Returns- Section 139(1); Section 139(4) [after due date]; Section 139(5) [Revised Return]; Section 139(9) [Defective Return]; Section 142 (1) [Notice to submit Return]. Different types of Returns and Due dates for filing of those Returns.

4. Procedure of filing e-Return- ITR 1 only.

B. **Returns under Goods and Services Tax (10 Marks)**

Comment [a624]: TKS

1. Different types of Taxable Persons and Returns to be submitted by them; Due dates for filing of

Returns.

2. Procedure of filing e-Return- GSTR 1 and GSTR 4 only.

Comment [a625]: AKC

C. Practical on hard copy of ITR 1 (20 Marks).

Comment [a626]: JD, TKS

B.COM. (HONOURS) SEMESTER-VI
Course Code: UG BCOM-H-CC-T-13
Course Title: FINANCIAL MANAGEMENT
Core Course; Credit-6; Full Marks-75
Session 2021-2022 (Jan-June)

COURSE CONTENTS:

1. **Fundamentals of Financial Management:** Definition, Concept, scope, objective, and importance of financial management. Objectives of the firm – profit maximization and wealth maximization. Time value of money.

Comment [a627]: JD/PN

2. **Sources of Finance and Cost of Capital:** Different sources of finance - long term and short term sources. Cost of capital - concept, relevance of cost of capital, specific costs and weighted average cost, rationale of after tax weighted average cost of capital, marginal cost of capital.

Comment [a628]: JD

3. **Working Capital and Its Management:** Meaning, concept, composition, nature, types of working capital, Determining factors of working capital, Working Capital Cycle, Estimation of working capital requirements (excluding problems on extra shift working capital and working capital policy). Working Capital Management – Importance of working capital management, Working capital financing – Long-term, medium and short-term.

Comment [a629]: JD

4. **Capital Structure and Leverage:** Meaning, concept, importance of capital structure. Determining factors of capital structure. Concept of optimum capital structure. Various capital structure theories (NI, NOI).

Comment [a630]: JD

Leverage – Concept, types and importance. Financial, operating and combined leverages, Trading on Equity, EBIT-EPS Analysis. Business Risk and Financial Risk.

5. **Capital Budgeting** – Concept and importance of capital budgeting decisions. Different project evaluation techniques - ARR, Pay Back Period, NPV, IRR, PI.

Comment [a631]: PN

6. **Dividend Decision:** Meaning, concept and significance. Determinants of dividend policies.

Comment [a632]: PN

Analytical study of dividend policy theories – Walter's Model, Gordon's Model and MM Theory.

7. (a) **Funds Flow Statement:** Concepts of fund – Meaning, nature, importance and limitations of funds flow statement – Various sources and uses of fund – Preparation of funds flow statement.

Comment [a633]: PN

(b) **Cash Flow Statement:** Meaning, Objectives, Importance and Limitations of cash flow statement – Fund flow statement vs. Cash flow statement – Various sources and uses of cash – Preparation of cash flow statement.

Course Code: UG BCOM-H-CC-T-14
Course Title: PROJECT WORK **Core Course; Credit-6; Full Marks-75**

Comment [a634]: PN, JD, SPC, TKS, AKC, AKB

COURSE CONTENTS:

For Project Work: Each student is required to conduct a study on a topic involving any business, social, economic or other relevant issue/ problem under the supervision of a faculty member assigned by the college/institution and to submit his/ her project report. Each student is also required to make a presentation on the submitted project report and face a viva voce by a board of examiners.

Examples of a few broad areas of Project: (List is indicative, not exhaustive)

- Accounting and Finance of Local Bodies.
- Any topic concerning local economic /entrepreneurial issues / new business proposal.
- Agro based industry / cottage industry.
- Commercial Crops including Horticulture & Sericulture.
- Micro-finance/ Financial Inclusion.
- Micro-insurance.
- Small Savings.

- Rural and Agricultural Banking.
- Preservation & Storage of Agricultural Products.
- Eco-tourism.
- Hotels, Restaurants, Eateries.
- Digital Service Providers- Photocopy, Mobile, Internet, Cable etc.
- Medical Service Providers.
- Educational Service Providers.
- Construction industry.
- Small Traders/ Street Vendors/ Hawkers including Railway Hawkers.
- Rural and Agricultural workers.
- Role of Micro Small and Medium Enterprises.
- Accounting Standards for Local Bodies.
- IFRS for SMEs.
- Indian Accounting Standards(Rule of 2006, as amended in 2016).
- Schedule III of Companies Act, 2013.
- Auditing Standards.
- E-Commerce & M-commerce.
- Credit Rating / Risk Management.
- Frauds/ White Collar Frauds.
- Subprime Meltdown and its after effect with case study from Indian Industry.
- Carbon Credit.
- Goods and Services Tax (GST)/Value Added Tax (VAT).
- Public Sector Undertakings and Indian Economic Development.
- Corporate Social Responsibilities.
- Corporate Governance.
- Financial Sector Reforms.
- On-line Banking.
- NPA Management.
- Business Process Outsourcing.
- Capital Market.
- Environmental Accounting/ Environmental Management.
- Financial Statement Analysis / Performance Analysis.
- Working Capital Management.
- Mergers & Acquisitions.
- Study on Aviation Sector in India.
- Venture Capital.
- Equity Linked Savings Scheme.
- Insurance Industry in India.
- Analysis of Mutual Funds.
- Commercialization of Sports in India.
- Marketing Strategy of products.
- Marketing and Promotional Strategies.
- Market Research.
- Brand Repositioning.
- Customer Relationship Management.
- Sales & Distribution Management.
- Customer Awareness.
- Industrial Marketing Vs. Consumer.
- Study of Consumer Behaviour.
- Packaging of Products.
- After Sales Service and Customer Satisfaction.
- Effectiveness of Advertising.
- Direct Marketing & Networking.
- Digital Commerce.

Guidelines for Project Writing:

Each of the students has to undertake a Project individually under the supervision of a teacher and to

submit the same following the guidelines stated below.

- Language of Project Report and Viva-Voce Examination may be English or Bengali. The Project Report must be typed and spirally bounded.
- Failure to submit the Project Report or failure to appear at the Viva-voce Examination will be treated as “Absent” in the Examination. He /she has to submit the Project Report and appear at the Viva-Voce Examination in the subsequent years (within the time period as per University Rules).
- No marks will be allotted on the Project Report unless a candidate appears at the Viva-Voce Examination. Similarly, no marks will be allotted on Viva-Voce Examination unless a candidate submits his/her Project Report.
- Evaluation of the Project Report and conduct of Viva-Voce Examination to be done jointly by internal examiner(s) and external examiner(s) with equal weightage, i.e., average marks of the internal and external experts will be allotted to the candidate.
- Division of Marks for this Paper::
 - a) Project Report and Presentation (40 marks)
 - Chapter 1: Introduction – 5 marks
 - Chapter 2: Conceptual Framework/ National/International Scenario – 10 marks
 - Chapter 3: Presentation, Analysis & Findings -- 20 marks
 - Chapter 4: Conclusion & Recommendations -- 5 marks
 - b) Viva-Voce (20 marks)
 - c) Internal (15 marks)

Course Code: UG BCOM-H-DSE-T- 03A
Course Title: MANAGEMENT ACCOUNTING
Discipline Specific Course; Credit-6; Full Marks-75

COURSE CONTENTS:

1. **Introduction: Meaning:** Objectives, Nature and Scope of management accounting, differences among Cost Accounting, Financial Accounting and Management Accounting, Concept of cost control, cost reduction and cost management.
2. **Budget and Budgetary Control:** Concept of budget and budgetary control. Principal Budget Factors, Budget Committee, Budget Manual; Preparation of Functional budgets (Sales, Purchase, Production, etc.), cash budget, fixed and flexible budgets; Concept of Master Budget and Zero base budgeting.
3. **Standard Costing:** Meaning of standard cost and standard costing. Steps involved in standard costing, Advantages and Limitations of Standard Costing. Types and Meaning of different cost variances, Determination of material and labour cost variances.
4. **Cost Volume Profit Analysis and Marginal Costing:** Meaning and assumption of Cost- Volume-Profit Analysis; Break Even Chart- Break Even Point, Margin of Safety, Angle of Incidence; Profit graph.
 Concepts of Marginal Cost, Marginal Costing & Contribution; Limitations of Marginal Costing, Distinction between Absorption Costing & Marginal Costing, Marginal Cost Equation and Techniques of Marginal Costing.
5. (a) **Ratio Analysis:** Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios–liquidity, solvency, activity, profitability, capital structure, managerial efficiency; Preparation of financial statement and statement of proprietor’s fund from relevant ratios.
- (b) **Common Size Statements:** Meaning, Objectives and Preparation of Common Size Statements.

Comment [a635]: TKS

Comment [a636]: TKS

Comment [a637]: TKS

Comment [a638]: AKC

Comment [a639]: SPC

Comment [a640]: SPC

Course Code: UG BCOM-H-DSE-T- 04A
Course Title: INDIAN FINANCIAL SYSTEM
Discipline Specific Course; Credit-6; Full Marks-75

Module-I
 INDIAN FINANCIAL SYSTEM

COURSE CONTENTS:

1. Financial System- Meaning, Components; Structure of Indian Financial System.
2. Reserve Bank of India-
 - (a) Organisation, Management, Functions- Credit Creation and Control.
 - (b) Monetary Policy- Objective, Different ways of RBI, Impediments to the effectiveness of monetary policy.
3. Development Banks- Concepts, Objectives & Functions of National & State Level Development Banks (IFCI, IDBI, ICICI, NABARD, SIDCs).
4. Insurance Sector (Life & General) Objectives and Functions; Public & Private players.
5. Regulatory Bodies- Fundamental ideas about various regulatory bodies like- SEBI, RBI, IRDA.

Comment [a641]: PN

Comment [a642]: AKC

Comment [a643]: JD

Comment [a644]: JD

Module-II MARKET OPERATION

COURSE CONTENTS:

1. Introduction- An Overview of Financial Market in India- New Financial Instrument: Commercial Paper, Treasury Bill, Certificate of Deposit- Concepts, features and advantages.
2. Money Market- Concept, Structure of Indian Money Market, Basic idea of its different components.
3. Capital Market- Primary Market and Secondary Market- Concept & Interrelation, Function and role of Stock Exchange (Including the basic ideas of types of stock market, Operation and Trading Mechanism of Stock Market) Credit Rating: Meaning, Rating Methodology, Rating symbols by different Rating Agencies.
4. Depository Services -Role and Function of Depository Services, Advantages, NSDL and CDSL.

Comment [a645]: JD

Comment [a646]: PN

Comment [a647]: AKC

Comment [a648]: JD

B.COM. (GENERAL) SEMESTER-VI
Course Code: UG BCOM-G-DSE-T-03A
Course Title: MANAGEMENT ACCOUNTING
Discipline Specific Course; Credit-6; Full Marks-75
Session 2021-2022 (Jan-June)

COURSE CONTENTS:

1. Introduction: Meaning, Objectives, Nature and Scope of management accounting, differences among Cost Accounting, Financial Accounting and Management Accounting, Concept of cost control, cost reduction and cost management.
2. Budget and Budgetary Control: Concept of budget and budgetary control. Principal Budget Factors, Budget Committee, Budget Manual; Preparation of Functional budgets (Sales, Purchase, Production, etc.), cash budget, fixed and flexible budgets; Concept of Master Budget and Zero base budgeting.
3. Standard Costing: Meaning of standard cost and standard costing. Steps involved in standard costing, Advantages and Limitations of Standard Costing. Types and Meaning of different cost variances, Determination of material and labour cost variances.
4. Cost Volume Profit Analysis and Marginal Costing: Meaning and assumption of Cost- Volume-Profit Analysis; Break Even Chart- Break Even Point, Margin of Safety, Angle of Incidence; Profit graph. Concepts of Marginal Cost, Marginal Costing & Contribution; Limitations of Marginal Costing, Distinction between Absorption Costing & Marginal Costing, Marginal Cost Equation and Techniques of Marginal Costing.
5. (a) Ratio Analysis: Accounting Ratios – Meaning, objectives, uses, advantages and limitations; Classification and determination of accounting ratios—liquidity, solvency, activity, profitability, capital structure, managerial efficiency; Preparation of financial statement and statement of proprietor's fund from relevant ratios.
- (b) Common Size Statements: Meaning, Objectives and Preparation of Common Size Statements.

Comment [a649]: TKS

Comment [a650]: AKC

Comment [a651]: TKS

Comment [a652]: SPC

Comment [a653]: SPC

Comment [a654]: SPC

Course Code: UG BCOM-G-DSE-T-04A Course
Title: INDIAN FINANCIAL SYSTEM
Discipline Specific Course; Credit-6; Full Marks-75

Module-I
 INDIAN FINANCIAL SYSTEM

COURSE CONTENTS:

1. **Financial System**- Meaning, Components; Structure of Indian Financial System.
2. Reserve Bank of India-
 - (a) Organisation, Management, Functions- Credit Creation and Control.
 - (b) Monetary Policy- Objective, Different ways of RBI, Impediments to the effectiveness of monetary policy.
3. **Development Banks**- Concepts, Objectives & Functions of National & State Level Development Banks (IFCI, IDBI, ICICI, NABARD, SIDCs).
4. **Insurance Sector (Life & General) Objectives and Functions; Public & Private players.**
5. **Regulatory Bodies**- Fundamental ideas about various regulatory bodies like- SEBI, RBI, IRDA.

Comment [a655]: PN

Comment [a656]: JD

Comment [a657]: JD

Module-II MARKET OPERATION

COURSE OBJECTIVE:

1. **Introduction**- An Overview of Financial Market in India- New Financial Instrument: Commercial Paper, Treasury Bill, Certificate of Deposit- Concepts, features and advantages.
2. **Money Market**- Concept, Structure of Indian Money Market, Basic idea of its different components.
3. **Capital Market**- Primary Market and Secondary Market- Concept & Interrelation, Function and role of Stock Exchange (Including the basic ideas of types of stock market, Operation and Trading Mechanism of Stock Market) Credit Rating: Meaning, Rating Methodology, Rating symbols by different Rating Agencies.
4. **Depository Services** -Role and Function of Depository Services, Advantages, NSDL and CDSL.

Comment [a658]: JD

Comment [a659]: PN

Comment [a660]: PN

Comment [a661]: JD

Course Code: UG BCOM-G-GE-T-02
Course Title: INDIAN ECONOMICS
Generic Course; Credit-6; Full Marks-75

Comment [a662]: AKB

COURSE CONTENTS:

1. Basic Issues of Economic Development: Concept and Measures of Development and Underdevelopment; Human Development Index; Human Capital-Meaning and Importance.
2. Basic Issues of Indian Economy: Features of Indian Economy; Sectoral distribution of National Income; Structural Change in Indian Economy; Problem of Poverty, Poverty alleviation measures; Problem of Unemployment and the policy measures; Population Growth and Economic Development.
3. Agricultural Sector: Problems of Indian agriculture; Land Reforms; Green Revolution and its impact; Problems of Rural Credit and Marketing; Co-operative Farming.
4. Industrial Sector: Industrial Labour; Industrial Sickness; Small Scale and Cottage Industry; Industrial Policy-Role of Public Sector; Its performance and issue of Disinvestment-Privatisation.
5. External Sector: Foreign Capital: Components; Need of Foreign Capital; Policy towards Foreign Capital; Foreign Investment since 1991; Globalisation- Meaning and Impact; International Institutions- WTO, World Bank, IMF.

Course Code: UG BCOM-G-SEC-T-04A
Course Title: PROJECT WORK
Skill Enhancement Course; Credit-2; Full Marks-50

Comment [a663]: PN, JD, SPC, TKS, AKC, AKB

COURSE CONTENTS:

For Project Work: Each student is required to conduct a study on a topic involving any business, social, economic or other relevant issue under the supervision of a faculty member assigned by the college/institution and to submit his/ her project report. Each student is also required to make a presentation on the submitted project report and face a viva voce by a board of examiners.

Examples of a few broad areas of Project: (List is indicative, not exhaustive)

- Accounting and Finance of Local Bodies.
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- Micro-finance/ Financial Inclusion.
 - Micro-insurance.
 - Small Savings.
 - Rural and Agricultural Banking.
 - Preservation & Storage of Agricultural Products.
 - Eco-tourism.
 - Hotels, Restaurants, Eateries.
 - Digital Service Providers- Photocopy, Mobile, Internet, Cable etc.
 - Medical Service Providers.
 - Educational Service Providers.
 - Construction industry.
 - Small Traders/ Street Vendors/ Hawkers including Railway Hawkers.
 - Rural and Agricultural workers.
 - Role of Micro Small and Medium Enterprises.
 - Accounting Standards for Local Bodies.
 - IFRS for SMEs.
 - Indian Accounting Standards(Rule of 2006, as amended in 2016).
 - Schedule III of Companies Act, 2013.
 - Auditing Standards.
 - E-Commerce & M-commerce.
 - Credit Rating / Risk Management.
 - Frauds/ White Collar Frauds.
 - Subprime Meltdown and its after effect with case study from Indian Industry.
 - Carbon Credit.
 - Goods and Services Tax (GST)/Value Added Tax (VAT).
 - Public Sector Undertakings and Indian Economic Development.
 - Corporate Social Responsibilities.
 - Corporate Governance.
 - Financial Sector Reforms.
 - On-line Banking.
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- NPA Management.
 - Business Process Outsourcing.
 - Capital Market.
 - Environmental Accounting/ Environmental Management.
 - Financial Statement Analysis / Performance Analysis.
 - Working Capital Management.
 - Mergers & Acquisitions.
 - Study on Aviation Sector in India.
 - Venture Capital.
 - Equity Linked Savings Scheme.
 - Insurance Industry in India.
 - Analysis of Mutual Funds.
 - Commercialization of Sports in India.
 - Marketing Strategy of products.
 - Marketing and Promotional Strategies.
 - Market Research.
 - Brand Repositioning.
 - Customer Relationship Management.
 - Sales & Distribution Management.
 - Customer Awareness.
 - Industrial Marketing Vs. Consumer.
 - Study of Consumer Behaviour.
 - Packaging of Products.
 - After Sales Service and Customer Satisfaction.

- Effectiveness of Advertising.
- Direct Marketing & Networking.
- Digital Commerce.

Guidelines for Project Writing:

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- No marks will be allotted on the Project Report unless a candidate appears at the Viva-Voce Examination. Similarly, no marks will be allotted on Viva-Voce Examination unless a candidate submits his/her Project Report.
- Evaluation of the Project Work is to be done by internal examiner(s).
- Division of Marks for this Paper:
 - a) Project Report and Presentation (30 marks)

Chapter 1: Introduction – 5 marks
Chapter 2: Conceptual Framework/ National/International Scenario – 10 marks
Chapter 3: Presentation, Analysis & Findings -- 10 marks
Chapter 4: Conclusion & Recommendations -- 5 marks
 - b) Viva-Voce (10 marks)
 - c) Internal (10 marks)

Course Code: UG BCOM-G-SEC-T-04B

Course Title: AUDITING

Skill Enhancement Course; Credit-2; Full Marks-50

COURSE CONTENTS:

1. **Introduction:** Definition of Auditing, Standards on Auditing (Preliminary idea only), Objectives of Audit, Basic Principles Governing an Audit, Scope of Audit, Inherent limitations of Audit, Different types of Audit, Auditing and Investigation. Basic Concepts in Auditing - Auditor's Independence, Advantages of an independent Audit, Audit Evidence, Concept of Materiality, Concept of True and Fair.
2. **Preparation for an Audit:** Auditor's Engagement, Audit Process, Audit Techniques, Audit Planning, Audit Programme, Continuous and Final Audit, Audit Planning and Materiality, Audit Working Papers, Quality Control for Audit Work, Elements of Statistical Sampling, Audit Risk, Surprise Checks, Obtaining Certificate from Management.
3. **Internal Control,** Internal Check and Internal Audit: Concept of Internal Control, Internal Control and Management, Internal Control and the Auditor, Testing of Internal Control, Examination in Depth, Internal Check, Internal check and Auditor, Internal Audit, Relationship between the Statutory and the Internal Auditors, Internal Financial Control.
4. **Vouching:** Concept of Vouching; Vouching of- Cash Transactions, Payments, Receipts, Trading Transactions, Purchases, Sales.
5. **Verification-** Bank Balance and Cash-in-Hand, Other Assets; Verification of Liabilities.

Comment [a664]: AKC

Comment [a665]: SPC

Comment [a666]: JD

Comment [a667]: SPC

Comment [a668]: PN

DISTRIBUTION OF SYLLABUS INTO MODULE

DEPARTMENT OF PHYSICS

NAME OF THE TEACHER : **Dr. Pravash mandal (Associate Professor)**

2017-2018		
1 st year (Hons.)	July-December	January-June
Paper – I (Theory)	Vectors, Kinetics, Frames of reference & laws of motion	System of particles, Conservation principles
Paper – III (Practical)	Experiments on GPM	Experiments on Electricity & Optics

2017-2018		
2 nd year (Hons.)	July-December	January-June
Paper – V (Theory)	Electrostatics in Vacuum, Multipoles, Electrostatics in material media, Capacitance	Electrostatic Energy, Electric Properties in Materials

2017-2018		
3 rd year (Hons.)	July-December	January-June
Paper – IX (Theory)	Networks, Thermionic Emission, Semiconductor Devices, Amplifiers, Feedback	Operational Amplifiers, Digital & Logic Circuits, Microprocessor, Power Supply
Paper – XI (Practical)	Experiments on Electronics	Experiments on Electricity

2018-2019		
2 nd year (Hons.)	July-December	January-June
Paper – V (Theory)	Electrostatics in Vacuum, Multipoles, Electrostatics in material media, Capacitance	Electrostatic Energy, Electric Properties in Materials

2018-2019		
3 rd year (Hons.)	July-December	January-June
Paper – IX (Theory)	Networks, Thermionic Emission, Semiconductor Devices, Amplifiers, Feedback	Operational Amplifiers, Digital & Logic Circuits, Microprocessor, Power Supply
Paper – XI (Practical)	Experiments on Electronics	Experiments on Electricity

2019-2020		
3 rd year (Hons.)	July-December	January-June
Paper – IX (Theory)	Networks, Thermionic Emission, Semiconductor Devices, Amplifiers, Feedback	Operational Amplifiers, Digital & Logic Circuits, Microprocessor, Power Supply
Paper – XI (Practical)	Experiments on Electronics	Experiments on Electricity

2018-2019			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-02	Mechanics	PHY-H-CC-T-04	Electricity and Magnetism
PHY-H-CC-P-02	Mechanics	PHY-H-CC-P-04	Electricity and Magnetism

2019-2020			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-02	Mechanics	PHY-H-CC-T-04	Electricity and Magnetism
PHY-H-CC-P-02	Mechanics	PHY-H-CC-P-04	Electricity and Magnetism

2019-2020			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC-T-07	Digital Systems and Applications	PHY-H-CC-T-10	Analog Systems and Applications
PHY-H-CC-P-07	Digital Systems and Applications	PHY-H-CC-P-10	Analog Systems and Applications

2020-2021			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-02	Mechanics	PHY-H-CC-T-04	Electricity and Magnetism
PHY-H-CC-P-02	Mechanics	PHY-H-CC-P-04	Electricity and Magnetism

2020-2021			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC-T-07	Digital Systems and Applications	PHY-H-CC-T-10	Analog Systems and Applications
PHY-H-CC-P-07	Digital Systems and Applications	PHY-H-CC-P-10	Analog Systems and Applications

2020-2021			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
PHY-H-DSE-T-02	Nuclear and Particle Physics	PHY-H-DSE-T-03	Communication Electronics
-	-	PHY-H-DSE-P-03	Communication Electronics

2021-2022			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-02	Mechanics	PHY-H-CC-T-04	Electricity and Magnetism
PHY-H-CC-P-02	Mechanics	PHY-H-CC-P-04	Electricity and Magnetism

2021-2022			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC-T-07	Digital Systems and Applications	PHY-H-CC-T-10	Analog Systems and Applications
PHY-H-CC-P-07	Digital Systems and Applications	PHY-H-CC-P-10	Analog Systems and Applications

2021-2022			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
PHY-H-DSE-T-02	Nuclear and Particle Physics	PHY-H-DSE-T-03	Communication Electronics
-	-	PHY-H-DSE-P-03	Communication Electronics

DISTRIBUTION OF SYLLABUS INTO MODULE

DEPARTMENT OF PHYSICS

NAME OF THE TEACHER : **Dr. Nirmalendu Ganai (Assistant Professor)**

2017-2018		
1 st year (Hons.)	July-December	January-June
Paper – I (Theory)	Gravitation, Mechanics of Deformable Bodies, Surface Tension	Viscous Fluids, Kinematics of Moving Fluids

2017-2018		
2 nd year (Hons.)	July-December	January-June
Paper – IV (Theory)	Thermometry, Kinetic Theory of Gases, Transport Phenomena	Real Gases, Conduction of Heat
Paper – VI (Practical)	Experiments on GPM & Heat	Experiments on Electricity, Optics & Magnetism

2017-2018		
3 rd year (Hons.)	July-December	January-June
Paper – VIII (Theory)	Failure of Classical Physics & The Old Quantum Theory, Basic Quantum Mechanics	Simple applications of Quantum Mechanics
Paper – X (Practical)	Experiments on Geometrical Optics	Experiments on Physical Optics

2018-2019		
2 nd year (Hons.)	July-December	January-June
Paper – IV (Theory)	Thermometry, Kinetic Theory of Gases, Transport Phenomena	Real Gases, Conduction of Heat

2018-2019		
3 rd year (Hons.)	July-December	January-June
Paper – VIII (Theory)	Failure of Classical Physics & The Old Quantum Theory, Basic Quantum Mechanics	Simple applications of Quantum Mechanics
Paper – X (Practical)	Experiments on Geometrical Optics	Experiments on Physical Optics

2019-2020		
3 rd year (Hons.)	July-December	January-June
Paper – VIII (Theory)	Failure of Classical Physics & The Old Quantum Theory, Basic Quantum Mechanics	Simple applications of Quantum Mechanics
Paper – X (Practical)	Experiments on Geometrical Optics	Experiments on Physical Optics

2018-2019			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC- T-02	Mechanics	PHY-H-CC- T-03	Electricity and Magnetism

2019-2020			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC- T-02	Mechanics	PHY-H-CC- T-03	Electricity and Magnetism

2019-2020			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC- T- 05	Mathematical Physics-II	PHY-H-CC- T- 08	Mathematical Physics III
PHY-H-CC- P-05	Mathematical Physics-II	PHY-H-CC- P- 08	Mathematical Physics III

2020-2021			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC- T-02	Mechanics	PHY-H-CC- T-03	Electricity and Magnetism

2020-2021			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC- T- 05	Mathematical Physics-II	PHY-H-CC- T- 08	Mathematical Physics III
PHY-H-CC- P-05	Mathematical Physics-II	PHY-H-CC- P- 08	Mathematical Physics III

2020-2021			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January- June
PHY-H-CC- T-11	Quantum Mechanics & Applications	PHY-H- CC-T-14	Statistical Mechanics
PHY-H-CC- P-11	Quantum Mechanics & Applications	PHY-H- CC-P-14	Statistical Mechanics

2021-2022			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC- T-02	Mechanics	PHY-H-CC- T-03	Electricity and Magnetism

2021-2022			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC- T- 05	Mathematical Physics-II	PHY-H-CC- T- 08	Mathematical Physics III

2021-2022			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January- June
PHY-H-CC- T-11	Quantum Mechanics & Applications	PHY-H-CC- T-14	Statistical Mechanics
PHY-H-CC- P-11	Quantum Mechanics & Applications	PHY-H-CC- P-14	Statistical Mechanics

DISTRIBUTION OF SYLLABUS INTO MODULE

DEPARTMENT OF PHYSICS

NAME OF THE TEACHER : **Dr. Rajkumar Mondal (Assistant Professor)**

2017-2018		
1 st year (Hons.)	July-December	January-June
Paper – I (Theory)	Nature of Light, Ray Approximation, Reflection & Refraction at Curved surfaces, Dispersion	Optical Instruments & Aberrations

2017-2018		
1 st year (General)	July-December	January-June
Paper – I (Theory)	Gravitation, Elasticity, Surface Tension	Fluid Motion

2017-2018		
2 nd year (Hons.)	July-December	January-June
Paper – V (Theory)	Thermoelectricity, Alternating Current	Units & Dimensions, Electrical measuring Equipments
Paper – VI (Practical)	Experiments on GPM & Magnetism	Experiments on Electricity, Optics

2017-2018		
2 nd year (General)	July-December	January-June
Paper – II (Theory)	Geometrical Optics, wave nature of light, Interference of light	Diffraction of light, Polarisation
Paper – III (Practical)	Experiments on GPM	Experiments on Electricity & Optics

2017-2018		
3 rd year (Hons.)	July-December	January-June
Paper – VII (Theory)	Wave nature of light, Interference of light waves, Diffraction of light waves, Resolving power of optical Instruments	Interferometer, Coherence, Polarisation
Paper – VII (Theory)	EM Theory, Dispersion, Scattering, Electro & Magneto-optic Effects	Special Theory of Relativity

2017-2018		
3 rd year (General)	July-December	January-June
Paper – IV (Theory)	Vacuum Techniques, spectroscopic techniques, LASER, different generation of computers & their basic building blocks, operating systems	Optical Fibers, Electrical wirings, energy sources & their uses

2018-2019		
2 nd year (Hons.)	July-December	January-June
Paper – V (Theory)	Thermoelectricity, Alternating Current	Units & Dimensions, Electrical measuring Equipments
Paper – VI (Practical)	Experiments on GPM & Magnetism	Experiments on Electricity, Optics

2018-2019		
2 nd year (General)	July-December	January-June
Paper – II (Theory)	Geometrical Optics, wave nature of light, Interference of light	Diffraction of light, Polarisation
Paper – III (Practical)	Experiments on GPM	Experiments on Electricity & Optics

2018-2019		
3 rd year (Hons.)	July-December	January-June
Paper – VII (Theory)	Wave nature of light, Interference of light waves, Diffraction of light waves, Resolving power of optical Instruments	Interferometer, Coherence, Polarisation
Paper – VII (Theory)	EM Theory, Dispersion, Scattering, Electro & Magneto- optic Effects	Special Theory of Relativity

2018-2019		
3 rd year (General)	July-December	January-June
Paper – IV (Theory)	Vacuum Techniques, spectroscopic techniques, LASER, different generation of computers & their basic building blocks, operating systems	Optical Fibers, Electrical wirings, energy sources & their uses

2019-2020		
3 rd year (Hons.)	July-December	January-June
Paper – VII (Theory)	Wave nature of light, Interference of light waves, Diffraction of light waves, Resolving power of optical Instruments	Interferometer, Coherence, Polarisation
Paper – VII (Theory)	EM Theory, Dispersion, Scattering, Electro & Magneto-optic Effects	Special Theory of Relativity

2019-2020		
3 rd year (General)	July-December	January-June
Paper – IV (Theory)	Vacuum Techniques, spectroscopic techniques, LASER, different generation of computers & their basic building blocks, operating systems	Optical Fibers, Electrical wirings, energy sources & their uses

2018-2019			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-01	Mathematical Physics-I	PHY-H-CC-T-04	Waves and Optics
-	-	PHY-H-CC-P-03	Electricity & Magnetism
-	-	PHY-H-CC-P-04	Waves and Optics

2019-2020			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-01	Mathematical Physics-I	PHY-H-CC-T-04	Waves and Optics
-	-	PHY-H-CC-P-03	Electricity & Magnetism
-	-	PHY-H-CC-P-04	Waves and Optics

2019-2020			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
-	-	PHY-G-CC-T-02	Waves and Optics
-	-	PHY-H-CC-P-02	Waves and Optics

2019-2020			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC-T-06	Thermal Physics	PHY-H-CC-T-09	Elements of Modern Physics
-	-	PHY-H-CC-P-09	Elements of Modern Physics
-	-	PHY-H-SEC-T-02	Renewable Energy & Energy harvesting

2019-2020			
Semester- III (PCC)	July-December	Semester- IV (PCC)	January-June
-	-	PHY-G-SEC-T-02	Radiation Safety

2020-2021			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-01	Mathematical Physics-I	PHY-H-CC-T-04	Waves and Optics
-	-	PHY-H-CC-P-03	Electricity & Magnetism
-	-	PHY-H-CC-P-04	Waves and Optics

2020-2021			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
-	-	PHY-G-CC-T-02	Waves and Optics
-	-	PHY-H-CC-P-02	Waves and Optics

2020-2021			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC-T-06	Thermal Physics	PHY-H-CC-T-09	Elements of Modern Physics
-	-	PHY-H-CC-P-09	Elements of Modern Physics
-	-	PHY-H-SEC-T-02	Renewable Energy & Energy harvesting

2020-2021			
Semester- III (PCC)	July-December	Semester- IV (PCC)	January-June
-	-	PHY-G-SEC-T-02	Renewable Energy & Energy Harvesting

2020-2021			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
PHY-H-CC-T-11	Quantum Mechanics & Applications	PHY-H-CC-T-13	EM Theory
PHY-H-CC-T-12	Solid State Physics	-	-

2021-2022			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-01	Mathematical Physics-I	PHY-H-CC-T-04	Waves and Optics
-	-	PHY-H-CC-P-03	Electricity & Magnetism
-	-	PHY-H-CC-P-04	Waves and Optics

2021-2022			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
-	-	PHY-G-CC-T-02	Waves and Optics
-	-	PHY-H-CC-P-02	Waves and Optics

2021-2022			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC-T-06	Thermal Physics	PHY-H-CC-T-09	Elements of Modern Physics
-	-	PHY-H-CC-P-09	Elements of Modern Physics
-	-	PHY-H-SEC-T-02	Renewable Energy & Energy harvesting

2021-2022			
Semester- III (PCC)	July-December	Semester- IV (PCC)	January-June
-	-	PHY-G-SEC-T-02	Renewable Energy & Energy Harvesting

2021-2022			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
PHY-H-CC-T-11	Quantum Mechanics & Applications	PHY-H-CC-T-13	Electromagnetic Theory
PHY-H-CC-T-12	Solid State Physics	-	-

2021-2022			
Semester- V (PCC)	July-December	Semester- VI (PCC)	January-June
PHY-G-SEC-T-03	Electrical Circuit & Network Skill	-	-

DISTRIBUTION OF SYLLABUS INTO MODULE

DEPARTMENT OF PHYSICS

NAME OF THE TEACHER : **Dr. Ashim Kumar Biswas (Assistant Professor)**

2017-2018		
1 st year (Hons.)	July-December	January-June
Paper – I (Theory)	Fourier Series, Matrices, Differential Equations, Orthogonal Curvilinear Coordinates	Rigid Bodies, Central Force

2017-2018		
1 st year (General)	July-December	January-June
Paper – I (Theory)	Thermometry, Kinetic Theory, Real Gases, Thermal Conductivity, Thermodynamics	Introduction to Statistical mechanics, Radiation

2017-2018		
2 nd year (Hons.)	July-December	January-June
Paper – V (Theory)	Electromagnetism in Vacuum, Electromagnetic Induction, Transients	Magnetic Fields in material media & Magnetic materials

2017-2018		
2 nd year (General)	July-December	January-June
Paper – II (Theory)	Electrostatic, Stady Currents, Magnetic Effect of Current, Magnetism in Material media & Magnetic Properties of Materials	Electromagnetic Induction, AC Current, Thermoelectricity, EM Theory
Paper – III (Practical)	Experiments on GPM	Experiments on Electricity & Optics

2017-2018		
3 rd year (Hons.)	July-December	January-June
Paper – VII (Theory)	Phase space, Statistical Ensembles, Maxwell's Distribution, Quantum Statistics	FD Distribution, BE Distribution
Paper – IX (Theory)	-	Crystal Structure of Solids
Paper – X (Practical)	Experiments on Optics (I)	Experiments on Optics (II)

2017-2018		
3 rd year (General)	July-December	January-June
Paper – IV (Theory)	Diode, Transistor, Amplifier, Feedback, OP-AMP, Fortran Language, programming	Digital Electronics, Modulation & Demodulation, Basic principles of T.V., Transmission & Reception

2018-2019		
2 nd year (Hons.)	July-December	January-June
Paper – V (Theory)	Electromagnetism in Vacuum, Electromagnetic Induction, Transients	Magnetic Fields in material media & Magnetic materials

2018-2019		
2 nd year (General)	July-December	January-June
Paper – II (Theory)	Electrostatic, Steady Currents, Magnetic Effect of Current, Magnetism in Material media & Magnetic Properties of Materials	Electromagnetic Induction, AC Current, Thermoelectricity, EM Theory
Paper – III (Practical)	Experiments on GPM	Experiments on Electricity & Optics

2018-2019		
3 rd year (Hons.)	July-December	January-June
Paper – VII (Theory)	Phase space, Statistical Ensembles, Maxwell's Distribution, Quantum Statistics	FD Distribution, BE Distribution
Paper – IX (Theory)	-	Crystal Structure of Solids
Paper – X (Practical)	Experiments on Optics (I)	Experiments on Optics (II)

2018-2019		
3 rd year (General)	July-December	January-June
Paper – IV (Theory)	Diode, Transistor, Amplifier, Feedback, OP-AMP, Fortran Language, programming	Digital Electronics, Modulation & Demodulation, Basic principles of T.V., Transmission & Reception

2019-2020		
3 rd year (Hons.)	July-December	January-June
Paper – VII (Theory)	Phase space, Statistical Ensembles, Maxwell's Distribution, Quantum Statistics	FD Distribution, BE Distribution
Paper – IX (Theory)	-	Crystal Structure of Solids
Paper – X (Practical)	Experiments on Optics (I)	Experiments on Optics (II)

2018-2019		
3 rd year (General)	July-December	January-June
Paper – IV (Theory)	Diode, Transistor, Amplifier, Feedback, OP-AMP, Fortran Language, programming	Digital Electronics, Modulation & Demodulation, Basic principles of T.V., Transmission & Reception

2018-2019			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-01	Mathematical Physics-I	PHY-H-CC-T-04	Waves and Optics
PHY-H-CC-P-01	Mathematical Physics-I	PHY-H-CC-P-04	Waves and Optics

2018-2019			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	-	-
-	-	-	-

2019-2020			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-01	Mathematical Physics-I	PHY-H-CC-T-04	Waves and Optics
-	-	PHY-H-CC-P-04	Waves and Optics

2019-2020			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
PHY-H-GE-T- 01	Mechanics	PHY-H-GE-T- 02	Waves and Optics
PHY-H-GE-P- 01	Mechanics	PHY-H-GE-P- 02	Waves and Optics

2019-2020			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	PHY-G-CC-T-02	Waves and Optics
PHY-G-CC-T-01	Mechanics	PHY-G-CC-P-02	Waves and Optics

2019-2020			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC-T- 06	Thermal Physics	PHY-H-CC-T- 08	Mathematical Physics III

2019-2020			
Semester- III (GE)	July-December	Semester- IV (GE)	January-June
PHY-H-GE-T- 03	Mechanics	-	-
PHY-H-GE-P- 03	Mechanics	-	-

2020-2021			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-01	Mathematical Physics-I	PHY-H-CC-T-04	Waves and Optics
-	-	PHY-H-CC-P-04	Waves and Optics

2020-2021			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
PHY-H-GE-T- 01	Mechanics	PHY-H-GE-T- 02	Waves and Optics
PHY-H-GE-P- 01	Mechanics	PHY-H-GE-P- 02	Waves and Optics

2020-2021			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	PHY-G-CC-T-02	Waves and Optics
PHY-G-CC-T-01	Mechanics	PHY-G-CC-P-02	Waves and Optics

2020-2021			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC-T- 06	Thermal Physics	PHY-H-CC-T- 08	Mathematical Physics III

2020-2021			
Semester- III (GE)	July-December	Semester- IV (GE)	January-June
PHY-H-GE-T- 03	Mechanics	-	-
PHY-H-GE-P- 03	Mechanics	-	-

2020-2021			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
-	-	PHY-H-CC-T-13	Electromagnetic Theory
-	-	PHY-H-CC-P-13	Electromagnetic Theory

2021-2022			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-01	Mathematical Physics-I	PHY-H-CC-T-04	Waves and Optics
-	-	PHY-H-CC-P-04	Waves and Optics

2021-2022			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
PHY-H-GE-T-01	Mechanics	PHY-H-GE-T-02	Waves and Optics
PHY-H-GE-P-01	Mechanics	PHY-H-GE-P-02	Waves and Optics

2021-2022			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	PHY-G-CC-T-02	Waves and Optics
PHY-G-CC-T-01	Mechanics	PHY-G-CC-P-02	Waves and Optics

2021-2022			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
PHY-H-CC-T-06	Thermal Physics	PHY-H-CC-T-08	Mathematical Physics III
-	-	PHY-H-CC-T-10	Analog Systems and Applications
-	-	PHY-H-SEC-T-02	Renewable Energy & Energy harvesting

2021-2022			
Semester- III (GE)	July-December	Semester- IV (GE)	January-June
PHY-H-GE-T-03	Mechanics	-	-
PHY-H-GE-P-03	Mechanics	PHY-H-GE-P-04	Waves and Optics

2021-2022			
Semester- III (PCC)	July-December	Semester- IV (PCC)	January-June
-	-	PHY-G-SEC-T-02	Renewable Energy & Energy harvesting

2021-2022			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
-	-	PHY-H-CC-T-13	Electromagnetic Theory
-	-	PHY-H-CC-P-13	Electromagnetic Theory

DISTRIBUTION OF SYLLABUS INTO MODULE

DEPARTMENT OF PHYSICS

NAME OF THE TEACHER : **Smt. Nidarshana Guha (State Aided College Teacher)**

2017-2018		
1 st year (Hons.)	July-December	January-June
Paper – II (Theory)	Vibrations, Waves, Ultrasonic & Building Acoustics	Sound Waves

2017-2018		
1 st year (General)	July-December	January-June
Paper – I (Theory)	SHM, General Equation of Wave Motion	Sound Waves

2017-2018		
2 nd year (Hons.)	July-December	January-June
Paper – IV (Theory)	1 st & 2 nd Law of Thermodynamics, Thermodynamic Functions, Heat Engines, Thermodynamics of Reversible Cells	Change of State, Multicomponent Systems, Radiation

2017-2018		
2 nd year (General)	July-December	January-June
Paper – III (Practical)	Experiments on GPM	Experiments on Electricity & Optics

2017-2018		
3 rd year (Hons.)	July-December	January-June
Paper – VIII (Theory)	Degrees of Freedom & Constraints, D Alembert's Principle, The Lagrangian Function	Hamilton's Principle, The Hamiltonian, Small Oscillations

2018-2019		
2 nd year (Hons.)	July-December	January-June
Paper – IV (Theory)	1 st & 2 nd Law of Thermodynamics, Thermodynamic Functions, Heat Engines, Thermodynamics of Reversible Cells	Change of State, Multicomponent Systems, Radiation

2018-2019		
2 nd year (General)	July-December	January-June
Paper – III (Practical)	Experiments on GPM	Experiments on Electricity & Optics

2018-2019		
3 rd year (Hons.)	July-December	January-June
Paper – VIII (Theory)	Degrees of Freedom & Constraints, D Alembert's Principle, The Lagrangian Function	Hamilton's Principle, The Hamiltonian, Small Oscillations

2019-2020		
3 rd year (Hons.)	July-December	January-June
Paper – VIII (Theory)	Degrees of Freedom & Constraints, D Alembert's Principle, The Lagrangian Function	Hamilton's Principle, The Hamiltonian, Small Oscillations

2018-2019			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
PHY-H-GE- T- 01	Mechanics	-	-
PHY-H-GE- P- 01	Mechanics	-	-

2018-2019			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC- T-01	Mechanics	-	-
PHY-G-CC- P-01	Mechanics	-	-

2019-2020			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
PHY-H-GE-T- 01	Mechanics	-	-
PHY-H-GE-P- 01	Mechanics	-	-

2019-2020			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	-	-
PHY-G-CC-T-01	Mechanics	-	-

2019-2020			
Semester- III (GE)	July-December	Semester- IV (GE)	January-June
PHY-H-GE-T- 03	Mechanics	PHY-H-GE-T-04	Waves & Optics
PHY-H-GE-P- 03	Mechanics	PHY-H-GE-P-04	Waves & Optics

2019-2020			
Semester- III (PCC)	July-December	Semester- IV (PCC)	January-June
PHY-G-CC-T-03	Analog Systems & Applications	PHY-G-CC-T-04	EM Theory
PHY-G-CC-P-03	Analog Systems & Applications	PHY-G-CC-P-04	EM Theory

2020-2021			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
PHY-H-GE-T- 01	Mechanics	-	-
PHY-H-GE-P- 01	Mechanics	-	-

2020-2021			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	-	-
PHY-G-CC-T-01	Mechanics	-	-

2020-2021			
Semester- III (GE)	July-December	Semester- IV (GE)	January-June
PHY-H-GE-T-01	Mechanics	-	-
PHY-H-GE-P-01	Mechanics	-	-

2020-2021			
Semester- III (PCC)	July-December	Semester- IV (PCC)	January-June
PHY-G-CC-T-03	Analog Systems & Applications	PHY-G-CC-T-04	EM Theory
PHY-G-CC-P-03	Analog Systems & Applications	PHY-G-CC-P-04	EM Theory

2020-2021			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
PHY-H-DSE-T-01	Classical Dynamics	PHY-H-DSE-T-04	Biophysics
PHY-H-DSE-T-02	Nuclear and Particle Physics	-	-

2020-2021			
Semester- V (PCC)	July-December	Semester- VI (PCC)	January-June
PHY-G-DSE-T-01	Mechanics	PHY-G-DSE-T-02	Digital, Analog Circuits & Instrumentations
PHY-G-DSE-P-01	Mechanics	PHY-G-DSE-P-02	Digital, Analog Circuits & Instrumentations

2021-2022			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
PHY-H-GE-T- 01	Mechanics	-	-
PHY-H-GE-P- 01	Mechanics	-	-

2021-2022			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	-	-
PHY-G-CC-T-01	Mechanics	-	-

2021-2022			
Semester- III (GE)	July-December	Semester- IV (GE)	January-June
PHY-H-GE-T- 03	Mechanics	PHY-H-GE-T-04	Waves & Optics
PHY-H-GE-P- 03	Mechanics	-	-

2021-2022			
Semester- III (PCC)	July-December	Semester- IV (PCC)	January-June
PHY-G-CC-T-03	Analog Systems & Applications	PHY-G-CC-T-04	EM Theory
PHY-G-CC-P-03	Analog Systems & Applications	PHY-G-CC-P-04	EM Theory

2021-2022			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
PHY-H-DSE-T-01	Classical Dynamics	PHY-H-DSE-T-04	Biophysics
PHY-H-DSE-T-02	Nuclear and Particle Physics	-	-

2021-2022			
Semester- V (PCC)	July- December	Semester- VI (PCC)	January-June
PHY-G- DSE-T-01	Mechanics	PHY-G-DSE- T-02	Digital, Analog Circuits & Instrumentations
PHY-G- DSE-P-01	Mechanics	PHY-G-DSE- P-02	Digital, Analog Circuits & Instrumentations

DISTRIBUTION OF SYLLABUS INTO MODULE

DEPARTMENT OF PHYSICS

NAME OF THE TEACHER : **Sri Sudipta Modak (State Aided College Teacher)**

2017-2018		
1 st year (Hons.)	July-December	January-June
-	-	-

2017-2018		
1 st year (General)	July-December	January-June
-	-	-

2017-2018		
2 nd year (Hons.)	July-December	January-June
-	-	-

2017-2018		
2 nd year (General)	July-December	January-June
-	-	-

2017-2018		
3 rd year (Hons.)	July-December	January-June
-	-	-

2018-2019		
2 nd year (Hons.)	July-December	January-June
-	-	-

2018-2019		
2 nd year (General)	July-December	January-June
Paper – III (Practical)	Experiments on GPM	Experiments on Electricity & Optics

2018-2019		
3 rd year (Hons.)	July-December	January-June
Paper – VII (Theory)	Interference, Diffraction	Interferometers, Coherence

2019-2020		
3 rd year (Hons.)	July-December	January-June
Paper – VII (Theory)	Interference, Diffraction	Interferometers, Coherence

2018-2019			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
-	-	PHY-H-GE-T-02	Waves & Optics
-	-	-	-

2018-2019			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	PHY-G-CC-T-02	Waves & Optics
PHY-G-CC-P-01	Mechanics	-	-

2019-2020			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
-	-	PHY-H-GE-T-02	Waves & Optics

2019-2020			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	PHY-G-CC-T-02	Waves & Optics
PHY-G-CC-P-01	Mechanics	-	-

2019-2020			
Semester- III (GE)	July-December	Semester- IV (GE)	January-June
PHY-H-GE-T-03	Mechanics	-	-
PHY-H-GE-P-03	Mechanics	-	-

2020-2021			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
PHY-H-CC-T-02	Mechanics	PHY-H-CC-T-04	Waves & Optics

2020-2021			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
PHY-H-GE-T-01	Mechanics	PHY-H-GE-T-02	Waves & Optics

2020-2021			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
-	-	PHY-H-SEC-T-02	Renewable Energy & Energy Harvesting

2020-2021			
Semester- III (GE)	July-December	Semester- IV (GE)	January-June
PHY-H-GE-T-03	Mechanics	PHY-H-GE-T-04	Waves & Optics
PHY-H-GE-P-03	Mechanics	PHY-H-GE-P-04	Waves & Optics

2020-2021			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
PHY-H-CC-T-12	Solid State Physics	-	-
PHY-H-CC-P-12	Solid State Physics	-	-

2020-2021			
Semester- V (PCC)	July-December	Semester- VI (PCC)	January-June
PHY-G-SEC-T-03	Electrical Circuit & Network Skill	PHY-G-SEC-T-04	Renewable Energy & Energy Harvesting

2021-2022			
Semester- I (Hons)	July-December	Semester- II (Hons)	January-June
-	-	PHY-H-CC-T-03	Electricity & Magnetism

2021-2022			
Semester- I (GE)	July-December	Semester- II (GE)	January-June
PHY-H-GE-T-01	Mechanics	PHY-H-GE-T-02	Waves & Optics
PHY-H-GE-P-01	Mechanics	PHY-H-GE-P-02	Waves & Optics

2021-2022			
Semester- I (PCC)	July-December	Semester- II (PCC)	January-June
PHY-G-CC-T-01	Mechanics	PHY-G-CC-T-02	Waves & Optics
PHY-G-CC-P-01	Mechanics	-	-

2021-2022			
Semester- III (Hons)	July-December	Semester- IV (Hons)	January-June
-	-	PHY-H-CC-T-09	Elements of Modern Physics
PHY-H-SEC-T-01	Computational Physics Skills	PHY-H-CC-P-09	Elements of Modern Physics

2021-2022			
Semester- III (GE)	July-December	Semester- IV (GE)	January-June
PHY-H-GE-T-03	Mechanics	PHY-H-GE-T-04	Waves & Optics
PHY-H-GE-P-03	Mechanics	-	-

2021-2022			
Semester- V (Hons)	July-December	Semester- VI (Hons)	January-June
PHY-H-CC-T-12	Solid State Physics	-	-
PHY-H-CC-P-12	Solid State Physics	-	-

2021-2022			
Semester- V (PCC)	July-December	Semester- VI (PCC)	January-June
-	-	PHY-G- SEC-T-04	Radiation Safety

Year-2019 (July-December)

SEMESTER – 1
CORE PAPER – 1: Foundation and History of Physical Education
Course Code: PEDG-CC-T-1A
Total number of classes – 60

Teacher's Name:
Debabrata Das

LH – 12

Unit – I: Introduction

- 1.1. Meaning and definition of Physical Education
- 1.2. Aim and objectives of Physical Education
- 1.3. Misconcept and Modern concept of Physical Education
- 1.4. Importance of Physical Education in modern society

Teacher's Name: Sumanta Das

LH - 18

Unit – II: Biological and Sociological Foundation of Physical Education

- 2.1. Biological Foundation- meaning and definition of growth and development. Factors affecting growth and development. Differences of growth and development. Principles of growth and Development
- 2.2. Age- Chronological age, anatomical age, physiological age and mental age
- 2.3. Sociological Foundation- meaning and definition of Sociology, Society, Socialization and Physical Education
- 2.4. Role of games and sports in National and International harmony

Teacher's Name: Debabrata Biswas

LH – 18

Unit – III: History of Physical Education

- 3.1. Historical development of Physical Education and Sports in India: Pre-Independence period and Post-Independence period
- 3.2. Olympic Movement: Ancient and Modern Olympic Games
- 3.3. Brief historical background of Asian Games, Commonwealth Games, and SAF Games
- 3.4. National Sports Awards: Arjuna Award, Major Dhyan Chand Khel Ratna Award, Dronacharya Award, and Dhyanchand Award

Teacher's Name: Sumanta Das

LH – 12

Unit – IV: Yoga Education

- 4.1. Meaning and definition of the term Yoga, types, aim, objectives and importance of Yoga
- 4.2. History of Yoga
- 4.3. Astanga Yoga
- 4.4. Hatha Yoga

Teacher's Name: Sumanta Das

Field Practical

1. Learn and demonstrate the technique of Suryanamaskar
2. Development of physical fitness through Callisthenics, Marching, Aerobic activities (any one)

References

- Graham, G. (2001) Teaching Children Physical Education: Becoming a Master Teacher. Human Kinetics, Champaign, Illinois, USA.
- Kamlesh, M.L. & Singh, M.K. (2006) Physical Education (Naveen Publication).
- Lau, S.K. (1999) Great Indian Players, New Delhi, Sports.
- Lumpkin, A. (2007) Introduction to Physical Education, Exercise Science and Sports Studies, McGraw Hill, New York, USA.
- Siedentop, D. (2004) Introduction to Physical Education, Fitness and Sport, McGraw Hill Companies Inc., New York, USA.
- Shukla, (2000) Mother on Education, National Council of Teacher Education, New Delhi.
- Singh, A. et al. (2000) Essential of Physical Education, Kalyani Publishers, Ludhiana, Punjab.
- Wuest, D.A. & C.A. Bucher (2006) Foundation of Physical Education, Exercise Science, and Sports. McGraw Hill Com Inc.; NY.
- Kar, S. & Santra, D.C. (2018): Snatak Saririksiksha Porichaya, (Vol.- 1), Santra Publication, Kolkata

SEMESTER – 2

CORE PAPER – 2: Management of Physical Education and Sports

Course Code: PEDG-CC-T-1B

Total number of classes – 60

LH - 12

Teacher's Name: Sumanta Das

Unit – I: Introduction

- 1.1. Concept and definition of Sports Management
- 1.2. Importance of Sports Management
- 1.3. Principles of Sports Management
- 1.4. Sports Manager and his duties

LH - 18

Teacher's Name: Debabrata Mondal

Unit – II: Tournaments

- 2.1. Tournaments: Meaning and definition and types of tournaments (Knock-out, League, Combination, Challenge)
- 2.2. Procedure of drawing fixture
- 2.3. Methods of organising Annual Athletic Meet and Play Day
- 2.4. Methods of organising Intramural and Extramural competition

LH - 18

Teacher's Name: Sumanta Das

Unit – III: Facilities and Equipments

- 3.1. Methods of standard Athletic Track marking
- 3.2. Care and maintenance of play ground and gymnasium
- 3.3. Importance, care and maintenance of sports equipments
- 3.4. Time Table: meaning, importance and factors affecting School's Physical Education
Time Table

LH - 12

Teacher's Name: Debabrata Mondal

Unit – IV: Leadership

- 4.1. Meaning and definition of leadership
- 4.2. Qualities of good leader in Physical Education
- 4.3. Types of leadership
- 4.4. Principles of leadership activities

Teacher's Name: Sumanta Das

Field Practical

Lay out, knowledge and officiating ability of

1. Track and Field events (any one)
2. Games: Football, Kabaddi, Kho-Kho, Volleyball (any one)

References

1. Broyles, F. J. & Rober, H. D. (1979). Administration of sports, Athletic programme: A Managerial Approach. NY: Prentice hall Inc.
2. Bucher, C. A. (1983). Administration of Physical Education and Athletic programme. St. Louis: The C.V. Mosby Co.
3. Kozman, H.C. Cassidy, R. & Jackson, C. (1960). Methods in Physical Education. London: W.B. Saunders Co.
4. Pandey, L.K. (1977). Methods in Physical Education. Delhi: Metropolitan Book Depot.
5. Sharma, V.M. & Tiwari, R.H.: (1979). Teaching Methods in Physical Education. Amaravati: Shakti Publication.
6. Thomas, J. P. (1967). Organization & administration of Physical Education. Madras: Gyanodayal Press.
7. Tirunaryanan, C. & Hariharan, S. (1969). Methods in Physical Education. Karaikudi: South India Press.
8. Voltmer, E. F. & Esslinger, A. A. (1979). The organization and administration of Physical Education. New York: Prentice Hall Inc.
9. Singh, A. et al. (2000) Essential of Physical Education, Kalyani Publishers, Ludhiana, Punjab.
10. Kar, S. & Santra, D.C. (2018): Satak Saririksha Porichaya, (Vol.- 1), Santra Publication, Kolkata

SEMESTER – 2 (Practical)

Track and Field

Teacher's Name: Debabrata Mondal

Track Events

- 1.1 Starting Techniques: Standing start and Crouch start (its variations) use of Starting Block
- 1.2 Acceleration with proper running techniques
- 1.3 Finishing technique: Run Through, Forward Lunging and Shoulder Shrug
- 1.4 Relay Race: Starting, Baton Holding/Carrying, Baton Exchange in between zone, and Finishing

Teacher's Name: Sumanta Das

Field Events (any two)

- 2.1 Long Jump: Approach Run, Take-off, Flight in the air (Hang Style/Hitch Kick) and Landing
- 2.2 High Jump: Approach Run, Take-off, Bar Clearance (Straddle) and Landing
- 2.3 Shot Put: Holding the Shot, Placement, Initial Stance, Glide, Delivery Stance and Recovery (Parry O'Brien Technique)
- 2.4 Discus Throw: Holding the Discus, Initial Stance, Primary Swing, Turn, Release and Recovery (Rotation in the circle)
- 2.5 Javelin Throw: Grip, Carry, Release and Recovery (3/5 Impulse stride)

Ball Games and Indigenous Games

Teacher's Name: Debabrata Mondal

Football

A. Fundamental skills

1. Kicking: kicking the ball with inside of the foot, kicking the ball with full instep of the foot, kicking the ball with inner instep of the foot, kicking the ball with outer instep of the foot and lofted kick
2. Trapping: trapping- the Rolling ball, and the Bouncing ball with sole of the foot
3. Dribbling: Dribbling the ball with Instep of the foot, Dribbling the ball with Inner and Outer Instep of the foot
4. Heading: In standing, running and jumping condition
5. Throw-in: Standing throw-in and Running throw-in
6. Feinting: With the lower limb and upper part of the body
7. Tackling: Simple Tackling, Slide Tackling
8. Goal Keeping: Collection of Ball, Ball clearance- kicking, throwing and deflecting
9. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the Officials

Teacher's Name: Debabrata Mondal

Volleyball

A. Fundamental skills

1. Service: Under arm service, Side arm service, Tennis service, Floating service
2. Pass: Under arm pass, Over head pass
3. Spiking and Blocking
4. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

Teacher's Name: Debabrata Mondal

Badminton

n

A. Fundamental skills

1. Basic Knowledge: Various parts of the Racket and Grip
2. Service: Short service, Long service, Long-high service
3. Shots: Over head shot, Defensive clear shot, Attacking clear shot, Drop shot, Net shot, Smash
4. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the Officials

11

Teacher's Name: Sumanta Das

Kabaddi

A. Fundamental skills

1. Skills in Raiding: Touching with hands, Use of leg-toe touch, squat leg thrust, side kick, mule kick, arrow fly kick, crossing of baulk line. Crossing of Bonusline
2. Skills of holding the raider: Various formations, catching from particular position, different catches, catching formation and techniques
3. Additional skills in raiding: Escaping from various holds, techniques of escaping from chain formation, offense and defence
4. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

Teacher's Name: Debabrata Mondal

Kho Kho

A. Fundamental skills

1. Skills in Chasing: Sit on the box (Parallel & Bullet toe method), Get up from the box (Proximal & Distal foot method), Give Kho (Simple, Early, Late & Judgment), Pole Turn, Pole Dive, Tapping, Hammering, Rectification of foul
 2. Skills in running: Chain Play, Ring play and Chain & Ring mixed play
 3. Game practice with application of Rules and Regulations
- B. Rules and their interpretations and duties of the officials**

SEMESTER-1
COREPAPER-1: Foundation and History of Physical Education
Course Code: PEDG-CC-T-1A
Total number of classes-60
Year- 2020 (July-December)

Teacher's Name
Nisith Kumar Sarkar

Unit-I: Introduction

LH-12

- 1.1. Meaning and definition of Physical Education
- 1.2. Aim and objectives of Physical Education
- 1.3. Misconcept and Modern concept of Physical Education
- 1.4. Importance of Physical Education in modern society

Teacher's Name
Amit Dey

Unit -II: Biological and Sociological Foundation of Physical Education

LH-18

- 2.1. Biological Foundation-meaning and definition of growth and development. Factors affecting growth and development. Differences of growth and development. Principles of growth and Development
- 2.2. Age-Chronological age, anatomical age, physiological age and mental age
- 2.3. Sociological Foundation-meaning and definition of Sociology, Society, Socialization and Physical Education
- 2.4. Role of games and sports in National and International harmony

Teacher's Name
Indrajit Sarkar

Unit-III: History of Physical Education

LH-18

- 3.1. Historical development of Physical Education and Sports in India: Pre-Independence period And Post-Independence period
- 3.2. Olympic Movement: Ancient and Modern Olympic Games
- 3.3. Brief historical background of Asian Games, Commonwealth Games, and SAF Games
- 3.4. National Sports Awards: Arjuna Award, Major Dhyan Chand Khel Ratna Award, Dronacharya Award, and Dhyanchand Award

Teacher's Name
Indrajit Sarkar

Nisith Kumar Sarkar

Unit - IV: Yoga Education

LH-12

- 4.1. Meaning and definition of the term Yoga, types, aim, objectives and importance of Yoga

- 4.2. History of Yoga
- 4.3. Astanga Yoga
- 4.4. Hatha Yoga

Teacher's Name
Indrajit Sarkar
Nisith Kumar Sarkar
Amit Dey

Field Practical

1. Learn and demonstrate the technique of Suryanamaskar
2. Development of physical fitness through Callisthenics, Marching, Aerobic activities(anyone)

References

1. Graham, G. (2001) Teaching Children Physical Education: Becoming a Master Teacher. Human Kinetics, Champaign, Illinois, USA.
2. Kamlesh, M.L. & Singh, M.K. (2006) Physical Education (Naveen Publication).
3. Lau, S.K. (1999) Great Indian Players, New Delhi, Sports.
4. Lumpkin, A. (2007) Introduction to Physical Education, Exercise Science and Sports Studies, McGraw Hill, New York, USA.
5. Siedentop, D. (2004) Introduction to Physical Education, Fitness and Sport, McGraw Hill Companies Inc., New York, USA.
6. Shukla, (2000) Mother on Education, National Council of Teacher Education, New Delhi.
7. Singh, A. et al. (2000) Essential of Physical Education, Kalyani Publishers, Ludhiana, Punjab.
8. Wuest, D.A. & C.A. Bucher (2006) Foundation of Physical Education, Exercise Science, and Sports. McGraw Hill Com Inc.; NY.
9. Kar, S. & Santra, D.C. (2018): Snatak Sarir siksha Porichaya, (Vol.-1), Santra Publication, Kolkata

SEMESTER–3
COREPAPER–3:Anatomy, Physiology and Exercise Physiology
CourseCode:PEDG-CC-T-1C
Totalnumberofclasses–60

Teacher's Name
Nisith Kumar Sarkar

Unit–I:Introduction

LH-12

- 1.1. Meaning and definition of Anatomy, Physiology and Exercise Physiology
- 1.2. Importance of Anatomy, Physiology and Exercise Physiology in Physical Education
- 1.3. Elementary concept of cellular organelles: Mitochondrion, Endoplasmic reticulum, Lysosome, Glycogen
- 1.4. Tissue :types and function

Teacher's Name
Amit Dey

Unit–II: Musculo-skeletal System

LH-18

- 2.1. Skeletal System-structure of Skeletal System. Classification and location of bones and joints, Anatomical differences between male and female
- 2.2. Muscular System-types of muscles. Location, structure and function of skeletal muscle
- 2.3. Types of muscular contraction
- 2.4. Effect of exercise and training on muscular system

Teacher's Name
Indrajit Sarkar

Unit–III: Circulatory System

LH-18

- 3.1. Blood-composition and function
- 3.2. Heart-structure and functions. Mechanism of blood circulation through heart
- 3.3. Blood Pressure, Athletic Heart and Bradycardia
- 3.4. Effect of exercise and training on circulatory system

Teacher's Name
Indrajit Sarkar

Unit –IV: Respiratory System

LH-12

- 4.1. Structure and function of Respiratory organs
- 4.2. Mechanism of Respiration
- 4.3. Vital Capacity,O2 Debt and Second Wind
- 4.4. Effect of exercise and training on respiratory system

Teacher's Name
Indrajit Sarkar
Nisith Kumar Sarkar
Amit Dey

Field Practical

1. Measurement of BMI and WHR (Waist-to-hip ratio)
2. Measurement of Heart rate, Blood Pressure, Respiratory Rate, and Peak Flow Expiratory Rate in resting and post exercise (any two)

References

1. Amrit Kumar, R., Moses. (1995). Introduction to Exercise Physiology. Madras: Poompugar Pathipagam
2. Clarke, D.H. (1975). Exercise Physiology. New Jersey: Prentice Hall Inc., Englewood Cliffs
3. David, L. Costill. (2004). Physiology of Sports and Exercise. Human Kinetics
4. Fox, E.L., and Mathews, D.K. (1981). The Physiological Basis of Physical Education and Athletics. Philadelphia: Sanders College Publishing
5. Guyton, A.C. (1976). Textbook of Medical Physiology. Philadelphia: W.B. Saunders Co.
6. Richard, W. Bowers. (1989). Sports Physiology. WMC: Brown Publishers
7. Sandhya Tiwaji. (1999). Exercise Physiology. Sports Publishers
8. Shaver, L. (1981). Essentials of Exercise Physiology. New Delhi: Subject Publications
9. Vincent, T. Murche. (2007). Elementary Physiology. Hyderabad: Sports Publication
10. William, D. McArdle. (1996). Exercise Physiology. Energy, Nutrition and Human Performance. Philadelphia: Lippincott Williams and Wilkins Company

SEMESTER-3
Track and Field
CourseCode:PEDG-SEC-P-1

Teacher's Name
Indrajit Sarkar

Track Events

- 1.1. Starting Techniques: Standing start and Crouch start (its variations) use of Starting Block
- 1.2. Acceleration with proper running techniques
- 1.3. Finishing technique: Run Through, Forward Lunging and Shoulder Shrug
- 1.4. Relay Race: Starting, Baton Holding/Carrying, Baton Exchange in between zone, and Finishing

Field Events (any two)

Teacher's Name
Amit Dey

- 2.1. Long Jump: Approach Run, Take-off ,Flight in the air (Hang Style/Hitch Kick) and Landing
- 2.2. High Jump: Approach Run, Take-off, Bar Clearance (Straddle) and Landing

Teacher's Name
Nisith Kumar Sarkar

- 2.3. Shot Put: Holding the Shot, Placement, Initial Stance, Glide, Delivery Stance and Recovery (Parry O' Brien Technique)
- 2.4. Discus Throw: Holding the Discus, Initial Stance, Primary Swing, Turn, Release and Recovery (Rotation in the circle)
- 2.5. Javelin Throw: Grip, Carry, Release and Recovery(3/5 Impulse stride)

SEMESTER – 2

CORE PAPER – 2: Management of Physical Education and Sports

Course Code: PEDG-CC-T-1B

Total number of classes – 60

Teacher's Name
Nisith Kumar Sarkar

LH - 12

Unit – I: Introduction

- 1.1. Concept and definition of Sports Management
- 1.2. Importance of Sports Management
- 1.3. Principles of Sports Management
- 1.4. Sports Manager and his duties

Teacher's Name
Indrajit Sarkar

LH - 18

Unit – II: Tournaments

- 2.1. Tournaments: Meaning and definition and types of tournaments (Knock-out, League, Combination, Challenge)
- 2.2. Procedure of drawing fixture
- 2.3. Methods of organising Annual Athletic Meet and Play Day
- 2.4. Methods of organising Intramural and Extramural competition

Teacher's Name
Amit Dey

LH - 18

Unit – III: Facilities and Equipments

- 3.1. Methods of standard Athletic Track marking
- 3.2. Care and maintenance of play ground and gymnasium
- 3.3. Importance, care and maintenance of sports equipments
- 3.4. Time Table: meaning, importance and factors affecting School's Physical Education
Time Table

Teacher's Name
Amit Dey
Nisith Kumar Sarkar

LH - 12

Unit – IV: Leadership

- 4.1. Meaning and definition of leadership
- 4.2. Qualities of good leader in Physical Education
- 4.3. Types of leadership
- 4.4. Principles of leadership activities

Teacher's Name
Amit Dey
Nisith Kumar Sarkar
Indrajit Sarkar

Field Practical

Lay out, knowledge and officiating ability of

1. Track and Field events (any one)
2. Games: Football, Kabaddi, Kho-Kho, Volleyball (any one)

References

1. Broyles, F. J. & Rober, H. D. (1979). Administration of sports, Athletic programme: A Managerial Approach. NY: Prentice hall Inc.
2. Bucher, C. A. (1983). Administration of Physical Education and Athletic programme. St. Lolis: The C.V. Hosby Co.
3. Kozman, H.C. Cassidy, R. & Jackson, C. (1960). Methods in Physical Education. London: W.B. Saunders Co.
4. Pandey, L.K. (1977). Methods in Physical Education. Delhi: Metropolitan Book Depot.
5. Sharma, V.M. & Tiwari, R.H.: (1979). Teaching Methods in Physical Education. Amaravati: Shakti Publication.
6. Thomas, J. P. (1967). Organization & administration of Physical Education. Madras: Gyanodayal Press.
7. Tirunarayanan, C. & Hariharan, S. (1969). Methods in Physical Education. Karaikudi: South India Press.
8. Voltmer, E. F. & Esslinger, A. A. (1979). The organization and administration of Physical Education. New York: Prentice Hall Inc.
9. Singh, A. et al. (2000) Essential of Physical Education, Kalyani Publishers, Ludhiana, Punjab.
10. Kar, S. & Santra, D.C. (2018): Snatak Saririksha Porichaya, (Vol.- 1), Santra Publication, Kolkata

SEMESTER – 2 (Practical)

Track and Field

Teacher's Name

Indrajit Sarkar

Track Events

- 1.1. Starting Techniques: Standing start and Crouch start (its variations) use of Starting Block
- 1.2. Acceleration with proper running techniques
- 1.3. Finishing technique: Run Through, Forward Lunging and Shoulder Shrug
- 1.4. Relay Race: Starting, Baton Holding/Carrying, Baton Exchange in between zone, and Finishing

Teacher's Name

Indrajit Sarkar

Field Events (any two)

- 2.1. Long Jump: Approach Run, Take-off, Flight in the air (Hang Style/Hitch Kick) and Landing
- 2.2. High Jump: Approach Run, Take-off, Bar Clearance (Straddle) and Landing
- 2.3. Shot Put: Holding the Shot, Placement, Initial Stance, Glide, Delivery Stance and Recovery (Parry O'Brien Technique)
- 2.4. Discus Throw: Holding the Discus, Initial Stance, Primary Swing, Turn, Release and Recovery (Rotation in the circle)
- 2.5. Javelin Throw: Grip, Carry, Release and Recovery (3/5 Impulse stride)

Ball Games and Indigenous Games

Teacher's Name

Amit Dey

Football

A. Fundamental skills

1. Kicking: kicking the ball with inside of the foot, kicking the ball with full instep of the foot, kicking the ball with inner instep of the foot, kicking the ball with outer instep of the foot and lofted kick
2. Trapping: trapping- the Rolling ball, and the Bouncing ball with sole of the foot
3. Dribbling: Dribbling the ball with Instep of the foot, Dribbling the ball with Inner and Outer Instep of the foot
4. Heading: In standing, running and jumping condition
5. Throw-in: Standing throw-in and Running throw-in
6. Feinting: With the lower limb and upper part of the body
7. Tackling: Simple Tackling, Slide Tackling
8. Goal Keeping: Collection of Ball, Ball clearance- kicking, throwing and deflecting
9. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the Officials

Teacher's Name

Nisith Kumar Sarkar

Volleyball

A. Fundamental skills

1. Service: Under arm service, Side arm service, Tennis service, Floating service
2. Pass: Under arm pass, Over head pass
3. Spiking and Blocking
4. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

Teacher's Name

Amit Dey

Badminton

A. Fundamental skills

1. Basic Knowledge: Various parts of the Racket and Grip
2. Service: Short service, Long service, Long-high service
3. Shots: Over head shot, Defensive clear shot, Attacking clear shot, Drop shot, Net shot, Smash
4. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the Officials

11

Teacher's Name

Nisith Kumar Sarkar

Kabaddi

A. Fundamental skills

1. Skills in Raiding: Touching with hands, Use of leg-toe touch, squat leg thrust, side kick, mule kick, arrow fly kick, crossing of baulk line. Crossing of Bonus line
2. Skills of holding the raider: Various formations, catching from particular position, different catches, catching formation and techniques
3. Additional skills in raiding: Escaping from various holds, techniques of escaping from chain formation, offense and defence
4. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

Teacher's Name

Indrajit Sarkar

Kho Kho

A. Fundamental skills

1. Skills in Chasing: Sit on the box (Parallel & Bullet toe method), Get up from the box (Proximal & Distal foot method), Give Kho (Simple, Early, Late & Judgment), Pole Turn, Pole Dive, Tapping, Hammering, Rectification of foul
2. Skills in running: Chain Play, Ring play and Chain & Ring mixed play
3. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

SEMESTER-4
CORE PAPER – 4: Health Education, Physical Fitness and Wellness
Course Code: PEDG-CC-T-1D
Total number of classes – 60

Teacher's Name
Nisith Kumar Sarkar

LH - 18

Unit – I: Introduction

- 1.1. Concept, definition and dimension of Health
- 1.2. Definition, aim, objectives and principles of Health Education
- 1.3. Activities of Health Agencies- World Health Organization (WHO), United Nations Educational Scientific and Cultural Organization (UNESCO) and United Nations International Children's Emergency Fund (UNICEF)
- 1.4. School Health Program- Health Service, Health Instruction, Health Supervision, Personal Hygiene and Health Record

Teacher's Name
Indrajit Sarkar

LH - 18

Unit – II: Common Health Problems - Prevention and Control

- 2.1. Communicable Diseases- Malaria, Dengue, Chicken Pox, Diarrhoea, Tuberculosis, Covid 19
- 2.2. Non-communicable Diseases- Obesity, Diabetes and Asthma
- 2.3. Nutrition- nutritional requirements for daily living. Preparation of Balance Diet chart. Health disorders due to deficiency of Protein, Carbohydrate, fat, Vitamins and Minerals
- 2.4. Concept of personal and environmental hygiene

Teacher's Name
Amit Dey

LH - 12

Unit – III: Physical Fitness and Wellness

- 3.1. Physical Fitness- meaning, definition and Importance of Physical Fitness
- 3.2. Components of Physical Fitness- Health and Performance related Physical Fitness
- 3.3. Concept of Wellness. Relationship between Physical activities and Wellness
- 3.4. Ageing- physical activities and its importance

Teacher's Name
Indrajit Sarkar
Amit Dey

LH - 12

Unit – IV: Health and First-aid

- 4.1. First aid- meaning, definition, importance and golden rules of First-aid
- 4.2. Concept of sports injuries- Sprain, Strain, Wound, Fracture and Dislocation
- 4.3. Management of sports injuries through the application of Hydro-therapy
- 4.4. Management of sports injuries through the application of Thermo-therapy

Teacher's Name
Indrajit Sarkar
Amit Dey
Nisith Kumar Sarkar

Field Practical

1. First-aid Practical- Triangular Bandage: Slings (Arm Sling, Collar & Cuff Sling), Roller Bandages: Simple Spiral, Reverse Spiral, Figure of Eight, Spica splint
2. Practical knowledge on application of Hydro-therapy and Thermo-therapy

References

1. Bucher, Charles A. "Administration of Health and Physical Education Programme".
2. Delbert, Oberteuffer, et. al. "The School Health Education".
3. Ghosh, B.N. "Treaties of Hygiene and Public Health".
4. Hanlon, John J. "Principles of Public Health Administration" 2003.
5. Turner, C.E. "The School Health and Health Education".
6. Moss et. al. "Health Education" (National Education Association of U.T.A.).
7. Nemir A. "The School Health Education" (Harber and Brothers, New York).
8. Terras S. (1994) Stress, How Your Diet can Help: The Practical Guide to Positive Health Using Diet, Vitamins, Minerals, Herbs and Amino Acids, Thorons

SEMESTER – 4
Gymnastics and Yoga
Course Code: PEDG-SEC-P-2

Teacher's Name
Indrajit Sarkar
Amit Dey

Gymnastics

1. Compulsory

- 1.1. Forward Roll
- 1.2. T-Balance
- 1.3. Forward Roll with Split leg
- 1.4. Backward Roll
- 1.5. Cart-Wheel

2. Optional (any two)

- 2.1. Dive and Forward Roll
- 2.2. Hand Spring
- 2.3. Head Spring
- 2.4. Neck Spring
- 2.5. Hand Stand and Forward Roll
- 2.6. Summersault

[Note: Perform the above Gymnastic skills continuously in the same sequence]

Teacher's Name
Nisith Kumar Sarkar
Indrajit Sarkar

Yoga

3. Asanas

3.1. Standing Posture

Ardhachandrasana
Brikshasana
Padahasthasana

3.4. Prone Posture

Bhujangasana
Salvasana
Dhanurasana

3.2. Sitting Posture

Ardhakurmasana
Paschimottanasana
Gomukhasana

3.5. Inverted Posture

Sarbangasana
Shirsasana
Bhagrasana

3.3. Supine Posture

Setubandhasana
Halasana
Matsyasana

[Note: One Asana is compulsory from each Posture]

Teacher's Name
Nisith Kumar Sarkar

4. Pranayama (any two)

Kapalbhati
Bhramri
Anulom Vilom

Year-2021(July- December)

SEMESTER – 1

CORE PAPER – 1: Foundation and History of Physical Education

Course Code: PEDG-CC-T-1A

Total number of classes – 60

Teacher's Name

Amit Dey

LH – 12

Unit – I: Introduction

- 1.1. Meaning and definition of Physical Education
- 1.2. Aim and objectives of Physical Education
- 1.3. Misconcept and Modern concept of Physical Education
- 1.4. Importance of Physical Education in modern society

Teacher's Name

Indrajit Sarkar

LH - 18

Unit – II: Biological and Sociological Foundation of Physical Education

- 2.1. Biological Foundation- meaning and definition of growth and development. Factors affecting growth and development. Differences of growth and development. Principles of growth and Development
- 2.2. Age- Chronological age, anatomical age, physiological age and mental age
- 2.3. Sociological Foundation- meaning and definition of Sociology, Society, Socialization and Physical Education
- 2.4. Role of games and sports in National and International harmony

Teacher's Name

Nisith Kumar Sarkar

LH – 18

Unit – III: History of Physical Education

- 3.1. Historical development of Physical Education and Sports in India: Pre-Independence period and Post-Independence period
- 3.2. Olympic Movement: Ancient and Modern Olympic Games
- 3.3. Brief historical background of Asian Games, Commonwealth Games, and SAF Games
- 3.4. National Sports Awards: Arjuna Award, Major Dhyan Chand Khel Ratna Award, Dronacharya Award, and Dhyanchand Award

Teacher's Name

Indrajit Sarkar

Nisith Kumar Sarkar

LH – 12

Unit – IV: Yoga Education

- 4.1. Meaning and definition of the term Yoga, types, aim, objectives and importance of Yoga
- 4.2. History of Yoga
- 4.3. Astanga Yoga
- 4.4. Hatha Yoga

Field Practical

1. Learn and demonstrate the technique of Suryanamaskar
2. Development of physical fitness through Callisthenics, Marching, Aerobic activities (any one)

References

1. Graham, G. (2001) Teaching Children Physical Education: Becoming a Master Teacher. Human Kinetics, Champaign, Illinois, USA.
2. Kamlesh, M.L. & Singh, M.K. (2006) Physical Education (Naveen Publication).
3. Lau, S.K. (1999) Great Indian Players, New Delhi, Sports.
4. Lumpkin, A. (2007) Introduction to Physical Education, Exercise Science and Sports Studies, McGraw Hill, New York, USA.
5. Siedentop, D. (2004) Introduction to Physical Education, Fitness and Sport, McGraw Hill Companies Inc., New York, USA.
6. Shukla, (2000) Mother on Education, National Council of Teacher Education, New Delhi.
7. Singh, A. et al. (2000) Essential of Physical Education, Kalyani Publishers, Ludhiana, Punjab.
8. Wuest, D.A. & C.A. Bucher (2006) Foundation of Physical Education, Exercise Science, and Sports. McGraw Hill Com Inc.; NY.
9. Kar, S. & Santra, D.C. (2018): Snatak Sarirsiksha Porichaya, (Vol.- 1), Santra Publication, Kolkata

SEMESTER – 3
CORE PAPER – 3: Anatomy, Physiology and Exercise Physiology
Course Code: PEDG-CC-T-1C
Total number of classes – 60

Teacher's Name

LH - 12

Amit Dey

Gopal Das

Unit – I: Introduction

- 1.1. Meaning and definition of Anatomy, Physiology and Exercise Physiology
- 1.2. Importance of Anatomy, Physiology and Exercise Physiology in Physical Education
- 1.3. Elementary concept of cellular organelles: Mitochondrion, Endoplasmic reticulum, Lysosome, Glycogen
- 1.4. Tissue: types and function

Teacher's Name

Nisith Kumar Sarkar

LH - 18

Unit – II: Musculo-skeletal System

- 2.1. Skeletal System- structure of Skeletal System. Classification and location of bones and joints, Anatomical differences between male and female
- 2.2. Muscular System- types of muscles. Location, structure and function of skeletal muscle
- 2.3. Types of muscular contraction
- 2.4. Effect of exercise and training on muscular system

Teacher's Name

Indrajit Sarkar

Gopal Das

LH - 18

Unit – III: Circulatory System

- 3.1. Blood- composition and function
- 3.2. Heart- structure and functions. Mechanism of blood circulation through heart
- 3.3. Blood Pressure, Athletic Heart and Bradycardia
- 3.4. Effect of exercise and training on circulatory system

Teacher's Name

Indrajit Sarkar

Nisith Kumar Sarkar

LH - 12

Unit – IV: Respiratory System

- 4.1. Structure and function of Respiratory organs
- 4.2. Mechanism of Respiration
- 4.3. Vital Capacity, O₂ Debt and Second Wind
- 4.4. Effect of exercise and training on respiratory system

Teacher's Name

Indrajit Sarkar

Nisith Kumar Sarkar

Gopal Das

Field Practical

1. Measurement of BMI and WHR (Waist-to-hip ratio)
2. Measurement of Heart rate, Blood Pressure, Respiratory Rate, and Peak Flow Expiratory Rate in resting and post exercise (any two)

References

1. Amrit Kumar, R, Moses. (1995). Introduction to Exercise Physiology. Madras: Poompugar Pathipagam
2. Clarke, D.H. (1975). Exercise Physiology. New Jersey: Prentice Hall Inc., Englewood Cliffs
3. David, L Costill. (2004). Physiology of Sports and Exercise. Human Kinetics
4. Fox, E.L., and Mathews, D.K. (1981). The Physiological Basis of Phy Edu and Athletics. Philadelphia: Sanders College Publishing
5. Guyton, A.C. (1976). Textbook of Medical Physiology. Philadelphia: W.B. Sanders co.
6. Richard, W. Bowers. (1989). Sports Physiology. WMC: Brown Publishers
7. Sandhya Tiwaji. (1999). Exercise Physiology. Sports Publishers
8. Shaver, L. (1981). Essentials of Exercise Physiology. New Delhi: Subject Publications
9. Vincent, T. Murche. (2007). Elementary Physiology. Hyderabad: Sports Publication
10. William, D. Mc Aradle. (1996). Exercise Physiology, Energy, Nutrition and Human Performance. Philadelphia: Lippincott Williams and Wilkins Company

SEMESTER – 3
Track and Field
Course Code: PEDG-SEC-P-1

Teacher's Name
Indrajit Sarkar

Track Events

- 1.1. Starting Techniques: Standing start and Crouch start (its variations) use of Starting Block
- 1.2. Acceleration with proper running techniques
- 1.3. Finishing technique: Run Through, Forward Lunging and Shoulder Shrug
- 1.4. Relay Race: Starting, Baton Holding/Carrying, Baton Exchange in between zone, and Finishing

Teacher's Name
Nisith Kumar Sarkar

Field Events (any two)

- 2.1. Long Jump: Approach Run, Take-off, Flight in the air (Hang Style/Hitch Kick) and Landing
- 2.2. High Jump: Approach Run, Take-off, Bar Clearance (Straddle) and Landing
- 2.3. Shot Put: Holding the Shot, Placement, Initial Stance, Glide, Delivery Stance and Recovery (Parry O'Brien Technique)
- 2.4. Discus Throw: Holding the Discus, Initial Stance, Primary Swing, Turn, Release and Recovery (Rotation in the circle)
- 2.5. Javelin Throw: Grip, Carry, Release and Recovery (3/5 Impulse stride)

SEMESTER – 5
Sports Training
Course Code: PEDG-DSE-T-2
Total number of classes – 60

Teacher's Name
Gopal Das

LH - 12

Unit – I: Introduction

- 1.1. Meaning and definition of Sports Training
- 1.2. Aim and characteristics of Sports Training
- 1.3. Principles of Sports Training
- 1.4. Importance of Sports Training

Teacher's Name
Nisith Kumar Sarkar

LH - 18

Unit – II: Methods of Training and Conditioning in Sports

- 2.1. Warming up and Cooling down- meaning, types and methods
- 2.2. Conditioning- concept of Conditioning and its principles
- 2.3. Training Methods- Circuit Training, Interval Training, Weight Training
- 2.4. Periodisation- meaning, types, aim and contents of different periods

Teacher's Name
Indrajit Sarkar

LH - 18

Unit – III: Training Load and Adaptation

- 3.1. Training Load- meaning, definition, types and factors of training load
- 3.2. Components of training load
- 3.3. Over Load- meaning, causes, symptoms and tackling of over load
- 3.4. Adaptation- meaning and conditions of adaptation, Supercompensation

Teacher's Name
Nisith Kumar Sarkar
Gopal Das

LH - 12

Unit – IV: Training Technique

- 4.1. Strength- means and methods of strength development
- 4.2. Speed- means and methods of speed development
- 4.3. Endurance- means and methods of endurance development
- 4.4. Flexibility- means and methods of flexibility development

Teacher's Name
Indrajit Sarkar
Gopal Das

Field Practical

1. Practical Experience of Weight Training and Circuit Training (any one)
2. Measurement of Speed, Strength (Grip/Leg), Explosive Strength (Leg) and Flexibility (any two)

References

1. Bunn, J.N. (1998) Scientific Principles of Coaching, New Jersey Engle Wood Cliffs, Prentice Hall Inc
2. Cart, E. Klafs & Daniel, D. Arnheim (1999) Modern Principles of Athletic Training St. Louis C. V. Mosphy Company
3. Daniel, D. Arnheim (1991) Principles of Athletic Training, St. Luis, Mosby Year Book
4. David R. Mottram (1996) Drugs in Sport, School of Pharmacy, Liverpool: John Moore University
5. Gary, T. Moran (1997) – Cross Training for Sports, Canada : Human Kinetics Hardayal

6. Singh (1991) Science of Sports Training, New Delhi, DVS Publications
7. Jensen, C.R. & Fisher A.G. (2000) Scientific Basic of Athletic Conditioning, Philadelphia
8. Ronald, P. Pfeiffer (1998) Concepts of Athletics Training 2nd Edition, London: Jones and Bartlett Publications
9. Yograj Thani (2003), Sports Training, Delhi : Sports Publications
10. Kar, S. & Santra, D.C. (2018): Snatak Sarirsiksha Porichaya, (Vol.- 1), Santra Publication, Kolkata

SEMESTER – 5
Indian Games and Racket Sports
Course Code: PEDG-SEC-P-3

Teacher's Name
Indrajit Sarkar
Gopal Das

Kabaddi

A. Fundamental skills

1. Skills in Raiding: touching with hands, Use of leg-toe touch, squat leg thrust, side kick, mule kick, arrow fly kick, crossing of baulk line. Crossing of Bonus line
2. Skills of holding the raider: various formations, catching from particular position, different catches, catching formation and techniques
3. Additional skills in raiding: escaping from various holds, techniques of escaping from chain formation, offense and defence
4. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

Or

Teacher's Name
Indrajit Sarkar

Kho Kho

A. Fundamental skills

1. Skills in Chasing: sit on the box (Parallel & Bullet toe method), get up from the box (Proximal & Distal foot method), give Kho (Simple, Early, Late & Judgment), Pole Turn, Pole Dive, Tapping, Hammering, rectification of foul
2. Skills in running: Chain Play, Ring play and Chain & Ring mixed play
3. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

And

Teacher's Name
Gopal Das

Badminton

A. Fundamental skills

1. Basic Knowledge: various parts of the Racket and Grip
2. Service: Short service, Long service, Long-high service
3. Shots: Over head shot, Defensive clear shot, Attacking clear shot, Drop shot, Net shot, Smash
4. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

Or

Table Tennis

A. Fundamental skills

1. Basic Knowledge: various parts of the Racket and Grip (Shake Hand & Pen Hold Grip)
2. Stance: alternate & parallel
3. Push and Service: backhand & forehand
4. Chop: backhand & forehand
5. Receive: Push and Chop with both backhand & forehand
6. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

Year-2022(January-June)

SEMESTER – 2

CORE PAPER – 2: Management of Physical Education and Sports

Course Code: PEDG-CC-T-1B

Total number of classes – 60

Teacher's Name

Gopal Das

Namita Mondal

LH - 12

Unit – I: Introduction

- 1.1. Concept and definition of Sports Management
- 1.2. Importance of Sports Management
- 1.3. Principles of Sports Management
- 1.4. Sports Manager and his duties

LH - 18

Teacher's Name

Indrajit Sarkar

Unit – II: Tournaments

- 2.1. Tournaments: Meaning and definition and types of tournaments (Knock-out, League, Combination, Challenge)
- 2.2. Procedure of drawing fixture
- 2.3. Methods of organizing Annual Athletic Meet and Play Day
- 2.4. Methods of organizing Intramural and Extramural competition

LH - 18

Teacher's Name

Nisith Kumar Sarkar

Unit – III: Facilities and Equipments

- 3.1. Methods of standard Athletic Track marking
- 3.2. Care and maintenance of play ground and gymnasium
- 3.3. Importance, care and maintenance of sports equipments
- 3.4. Time Table: meaning, importance and factors affecting School's Physical Education
Time Table

LH – 12

Teacher's Name

Namita Mondal

Unit – IV: Leadership

- 4.1. Meaning and definition of leadership
- 4.2. Qualities of good leader in Physical Education
- 4.3. Types of leadership
- 4.4. Principles of leadership activities

Teacher's Name
Indrajit Sarkar
Namita Mondal
Nisith Kumar Sarkar

Field Practical

Lay out, knowledge and officiating ability of

1. Track and Field events (any one)
2. Games: Football, Kabaddi, Kho-Kho, Volleyball (any one)

References

1. Broyles, F. J. & Rober, H. D. (1979). Administration of sports, Athletic programme: A Managerial Approach. NY: Prentice hall Inc.
2. Bucher, C. A. (1983). Administration of Physical Education and Athletic programme. St. Louis: The C.V. Mosby Co.
3. Kozman, H.C. Cassidy, R. & Jackson, C. (1960). Methods in Physical Education. London: W.B. Saunders Co.
4. Pandey, L.K. (1977). Methods in Physical Education. Delhi: Metropolitan Book Depot.
5. Sharma, V.M. & Tiwari, R.H.: (1979). Teaching Methods in Physical Education. Amaravati: Shakti Publication.
6. Thomas, J. P. (1967). Organization & administration of Physical Education. Madras: Gyanodayal Press.
7. Tirunaryanan, C. & Hariharan, S. (1969). Methods in Physical Education. Karaikudi: South India Press.
8. Voltmer, E. F. & Esslinger, A. A. (1979). The organization and administration of Physical Education. New York: Prentice Hall Inc.
9. Singh, A. et al. (2000) Essential of Physical Education, Kalyani Publishers, Ludhiana, Punjab.
10. Kar, S. & Santra, D.C. (2018): Satak Saririksha Porichaya, (Vol.- 1), Santra Publication, Kolkata

SEMESTER – 2 (Practical)

Track and Field

Teacher's Name
Indrajit Sarkar

Track Events

- 1.1. Starting Techniques: Standing start and Crouch start (its variations) use of Starting Block
- 1.2. Acceleration with proper running techniques
- 1.3. Finishing technique: Run Through, Forward Lunging and Shoulder Shrug
- 1.4. Relay Race: Starting, Baton Holding/Carrying, Baton Exchange in between zone, and Finishing

Teacher's Name
Nisith Kumar Sarkar

Field Events (any two)

- 2.1. Long Jump: Approach Run, Take-off, Flight in the air (Hang Style/Hitch Kick) and Landing
- 2.2. High Jump: Approach Run, Take-off, Bar Clearance (Straddle) and Landing
- 2.3. Shot Put: Holding the Shot, Placement, Initial Stance, Glide, Delivery Stance and Recovery (Parry O'Brien Technique)
- 2.4. Discus Throw: Holding the Discus, Initial Stance, Primary Swing, Turn, Release and Recovery (Rotation in the circle)
- 2.5. Javelin Throw: Grip, Carry, Release and Recovery (3/5 Impulse stride)

Ball Games and Indigenous Games

Teacher's Name
Indrajit Sarkar

Football

A. Fundamental skills

1. Kicking: kicking the ball with inside of the foot, kicking the ball with full instep of the foot, kicking the ball with inner instep of the foot, kicking the ball with outer instep of the foot and lofted kick
2. Trapping: trapping- the Rolling ball, and the Bouncing ball with sole of the foot
3. Dribbling: Dribbling the ball with Instep of the foot, Dribbling the ball with Inner and Outer Instep of the foot
4. Heading: In standing, running and jumping condition
5. Throw-in: Standing throw-in and Running throw-in
6. Feinting: With the lower limb and upper part of the body
7. Tackling: Simple Tackling, Slide Tackling
8. Goal Keeping: Collection of Ball, Ball clearance- kicking, throwing and deflecting
9. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the Officials

Teacher's Name
Nisith Kumar Sarkar

Volleyball

- A. Fundamental skills**
1. Service: Under arm service, Side arm service, Tennis service, Floating service
 2. Pass: Under arm pass, Over head pass
 3. Spiking and Blocking
 4. Game practice with application of Rules and Regulations
- B. Rules and their interpretations and duties of the officials**

Teacher's Name
Namita Mondal

Badminton

- A. Fundamental skills**
1. Basic Knowledge: Various parts of the Racket and Grip
 2. Service: Short service, Long service, Long-high service
 3. Shots: Over head shot, Defensive clear shot, Attacking clear shot, Drop shot, Net shot, Smash
 4. Game practice with application of Rules and Regulations
- B. Rules and their interpretations and duties of the Officials**

11

Teacher's Name
Nisith Kumar Sarkar

Kabaddi

- A. Fundamental skills**
1. Skills in Raiding: Touching with hands, Use of leg-toe touch, squat leg thrust, side kick, mule kick, arrow fly kick, crossing of baulk line. Crossing of Bonus line
 2. Skills of holding the raider: Various formations, catching from particular position, different catches, catching formation and techniques
 3. Additional skills in raiding: Escaping from various holds, techniques of escaping from chain formation, offense and defence
 4. Game practice with application of Rules and Regulations
- B. Rules and their interpretations and duties of the officials**

Teacher's Name
Namita Mondal

Kho Kho

- A. Fundamental skills**
1. Skills in Chasing: Sit on the box (Parallel & Bullet toe method), Get up from the box (Proximal & Distal foot method), Give Kho (Simple, Early, Late & Judgment), Pole Turn, Pole Dive, Tapping, Hammering, Rectification of foul
 2. Skills in running: Chain Play, Ring play and Chain & Ring mixed play
 3. Game practice with application of Rules and Regulations
- B. Rules and their interpretations and duties of the officials**

SEMESTER – 4
CORE PAPER – 4: Health Education, Physical Fitness and Wellness

Course Code: PEDG-CC-T-1D

Total number of classes – 60

Teacher's Name
Indrajit Sarkar

LH – 18

Unit – I: Introduction

- 1.1. Concept, definition and dimension of Health
- 1.2. Definition, aim, objectives and principles of Health Education
- 1.3. Activities of Health Agencies- World Health Organization (WHO), United Nations Educational Scientific and Cultural Organization (UNESCO) and United Nations International Children's Emergency Fund (UNICEF)
- 1.4. School Health Program- Health Service, Health Instruction, Health Supervision, Personal Hygiene and Health Record

Teacher's Name
Nisith Kumar Sarkar

LH – 18

Unit – II: Common Health Problems - Prevention and Control

- 2.1. Communicable Diseases- Malaria, Dengue, Chicken Pox, Diarrhoea, Tuberculosis, Covid 19
- 2.2. Non-communicable Diseases- Obesity, Diabetes and Asthma
- 2.3. Nutrition- nutritional requirements for daily living. Preparation of Balance Diet chart. Health disorders due to deficiency of Protein, Carbohydrate, fat, Vitamins and Minerals
- 2.4. Concept of personal and environmental hygiene

Teacher's Name
Namita Mondal
Gopal Das

LH – 12

Unit – III: Physical Fitness and Wellness

- 3.1. Physical Fitness- meaning, definition and Importance of Physical Fitness
- 3.2. Components of Physical Fitness- Health and Performance related Physical Fitness
- 3.3. Concept of Wellness. Relationship between Physical activities and Wellness
- 3.4. Ageing- physical activities and its importance

Teacher's Name
Indrajit Sarkar
Nisith Kumar Sarkar

LH – 12

Unit – IV: Health and First-aid

- 4.1. First aid- meaning, definition, importance and golden rules of First-aid
- 4.2. Concept of sports injuries- Sprain, Strain, Wound, Fracture and Dislocation
- 4.3. Management of sports injuries through the application of Hydro-therapy
- 4.4. Management of sports injuries through the application of Thermo-therapy

Teacher's Name
Nisith Kumar Sarkar
Indrajit Sarkar

Field Practical

1. First-aid Practical- Triangular Bandage: Slings (Arm Sling, Collar & Cuff Sling), Roller Bandages: Simple Spiral, Reverse Spiral, Figure of Eight, Spica splint
2. Practical knowledge on application of Hydro-therapy and Thermo-therapy

References

1. Bucher, Charles A. "Administration of Health and Physical Education Programme".
2. Delbert, Oberteuffer, et. al." The School Health Education".
3. Ghosh, B.N. "Treaties of Hygiene and Public Health".
4. Hanlon, John J. "Principles of Public Health Administration" 2003.
5. Turner, C.E. "The School Health and Health Education".
6. Moss et. al. "Health Education" (National Education Association of U.T.A.).
7. Nemir A. "The School Health Education" (Harber and Brothers, New York).
8. Terras S. (1994) Stress, How Your Diet can Help: The Practical Guide to Positive Health Using Diet, Vitamins, Minerals, Herbs and Amino Acids, Thorons

SEMESTER – 4
Gymnastics and Yoga
Course Code: PEDG-SEC-P-2

Teacher's Name
Indrajit Sarkar
Namita Mondal

Gymnastics

1. Compulsory

- 1.1. Forward Roll
- 1.2. T-Balance
- 1.3. Forward Roll with Split leg
- 1.4. Backward Roll
- 1.5. Cart-Wheel

2. Optional (any two)

- 2.1. Dive and Forward Roll
- 2.2. Hand Spring
- 2.3. Head Spring
- 2.4. Neck Spring
- 2.5. Hand Stand and Forward Roll
- 2.6. Summersault

[Note: Perform the above Gymnastic skills continuously in the same sequence]

Teacher's Name
Nisith Kumar Sarkar
Indrajit Sarkar

Yoga

3. Asanas

- 3.1. Standing Posture**
Ardhachandrasana
Brikshasana
Padahasthasana

- 3.4. Prone Posture**
Bhujangasana
Salvasana
Dhanurasana

- 3.2. Sitting Posture**
Ardhakurmasana
Paschimottanasana
Gomukhasana

- 3.5. Inverted Posture**
Sarbangasana
Shirsasana
Bhagrasana

- 3.3. Supine Posture**
Setubandhasana
Halasana
Matsyasana

[Note: One Asana is compulsory from each Posture]

Teacher's Name
Nisith Kumar Sarkar

4. Pranayama (any two)

- Kapalbhati
Bhramri
Anulom Vilom

SEMESTER – 6

Psychology in Physical Education and Sports

Course Code: PEDG-DSE-T-4

Total number of classes – 60

Teacher's Name
Gopal Das
Namita Mondal

Unit – I: Introduction

LH – 12

- 1.1. Meaning and definition Psychology
- 1.2. Importance and scope of Psychology
- 1.3. Meaning and definition of Sports Psychology
- 1.4. Need for knowledge of Sports Psychology in the field of Physical Education

Teacher's Name
Indrajit Sarkar

LH – 18

Unit – II: Learning

- 2.1. Meaning and definition of learning
- 2.2. Theories and Laws of learning
- 2.3. Learning curve: meaning and types
- 2.4. Transfer of learning- meaning, definition and types. Factors affecting transfer of learning

Teacher's Name
Nisith Kumar Sarkar

LH – 18

Unit – III: Psychological Factors

- 3.1. Motivation- meaning, definition, types and importance of Motivation in Physical Education and Sports
- 3.2. Emotion- meaning, definition, types and importance of Emotion in Physical Education and Sports
- 3.3. Personality- meaning, definition and types. Personality traits
- 3.4. Role of physical activities in the development of personality

Teacher's Name
Indrajit Sarkar
Nisith Kumar Sarkar

LH – 12

Unit – IV: Stress and Anxiety

- 4.1. Stress- meaning, definition and types of Stress
- 4.2. Causes of Stress
- 4.3. Anxiety- meaning, definition and types of Anxiety
- 4.4. Management of Stress and Anxiety through physical activity and sports

Teacher's Name
Indrajit Sarkar
Nisith Kumar Sarkar

Field Practical

1. Assessment of Personality, Stress and Anxiety (any one)

2. Measurement of Reaction Time, Depth Perception and Mirror Drawing (any one)

References

1. Authors Guide (2013) National Library of Educational and Psychological Test (NLEPT) Catalogue of Tests, New Delhi: NCERT Publication
2. Jain. (2002), Sports Sociology, Heal Sahety Kendre Publishers
3. Jay Coakley. (2001) Sports in Society – Issues and Controversies in International Education, Mc-Craw Seventh Ed
4. John D Lauther (2000) Psychology of Coaching. Ner Jersey: Prentice Hall Inc
5. John D. Lauther (1998) Sports Psychology. Englewood, Prentice Hall Inc
6. Miroslaw Vauks & Bryant Cratty (1999). Psychology and the Superior Athlete. London: The Macmillan Co
7. Richard, J. Crisp. (2000). Essential Social Psychology. Sage Publications
8. Robert N. Singer (2001). Motor Learning and Human Performance. New York: The Macmillan Co
9. Robert N. Singer. (1989) The Psychology Domain Movement Behaviour. Philadelphia: Lea and Febiger
10. Thelma Horn. (2002). Advances in Sports Psychology. Human Kinetic

SEMESTER – 6

Course Code: PEDG-SEC-P-4

Teacher's Name
Indrajit Sarkar

Football

- A. Fundamental skills**
1. Kicking: kicking the ball with inside of the foot, kicking the ball with full instep of the foot, kicking the ball with inner instep of the foot, kicking the ball with outer instep of the foot and lofted kick
 2. Trapping: Trapping- the rolling ball, and the bouncing ball with sole of the foot
 3. Dribbling: dribbling the ball with instep of the foot, dribbling the ball with inner and outer instep of the foot
 4. Heading: in standing, running and jumping condition
 5. Throw-in: standing throw-in and running throw-in
 6. Feinting: with the lower limb and upper part of the body
 7. Tackling: simple tackling, slide tackling
 8. Goal Keeping: collection of ball, ball clearance- kicking, throwing and deflecting
 9. Game practice with application of Rules and Regulations
- B. Rules and their interpretations and duties of the officials**

Teacher's Name
Indrajit Sarkar

Handball

- A. Fundamental skills**
1. Catching, Throwing and Ball control
 2. Goal Throws: Jump shot, Center shot, Dive shot, Reverse shot
 3. Dribbling: High and low
 4. Attack and counter attack, simple counter attack, counter attack from two wings and Center
 5. Blocking, GoalKeeping and Defensive skills
 6. Game practice with application of Rules and Regulations
- B. Rules and their interpretations and duties of the officials**

Teacher's Name
Gopal Das
Namita Mondal

Basketball

- A. Fundamental skills**
1. Passing: two hand Chest Pass, two hands Bounce Pass, one hand Baseball Pass, side arm Pass, Overhead Pass, Hook Pass
 2. Receiving: two hand receiving, one hand receiving, receiving in stationary position, receiving while jumping and receiving while running

3. Dribbling: how to start dribble, drop dribble, high dribble, low dribble, reverse dribble, rolling dribble
 4. Shooting: lay-up shot and its variations, one hand set shot, two hands jump shot, Hook shot, Free Throw
 5. Rebounding: defensive rebound and offensive rebound
 6. Individual Defence: guarding the player with the ball and without the ball, Pivoting
 7. Game practice with application of Rules and Regulations
- B. Rules and their interpretations and duties of the officials**

Teacher's Name
Nisith Kumar Sarkar

Volleyball

A. Fundamental skills

1. Service: Under arm service, Side arm service, Tennis service, Floating service
2. Pass: Under arm pass, Over head pass
3. Spiking and Blocking
4. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

Teacher's Name
Namita Mondal

Netball

A. Fundamental skills

1. Catching: one handed, two handed, with feet grounded and in flight
2. Throwing (Different passes and their uses): one hand passes (shoulder, high shoulder, underarm, bounce, lob), two hand passes (Push, overhead and bounce)
3. Footwork: landing on one foot, landing on two feet, Pivot, Running pass
4. Shooting: one hand, forward step shot, and backward step shot
5. Techniques of free dodge and sprint, sudden sprint, sprint and stop, sprinting with change at speed
6. Defending: marking the player, marking the ball, blocking, inside the circle, outside the circle. Defending the circle edge against the passing
7. Intercepting: Pass and shot
8. Game practice with application of Rules and Regulations

B. Rules and their interpretations and duties of the officials

Teacher's Name
Namita Mondal

Throwball

A. Fundamental skills

1. Overhand service, Side arm service

2. Two hand catching
 3. One hand overhead return, side arm return
 4. Game practice with application of Rules and Regulations
- B. Rules and their interpretations and duties of the officials**

Dept. of Political Science

Syllabus Modularization 2017-18

Paper-I (Honours)

Basic Principles of Political Theory (Paper-I)	No. of Lecture	Name of the Teacher
1st Half		
1. Nature and Significance of Political Theory-Approaches to the study of Political : (a) Normative; (b) Behaviouralist- Post-Behaviouralist (c) Marxist ; (d) Feminist.	11	DD
2. Nature of the State :Liberal theory-Locke, Bentham, J.S Mill; Idealist Theory-Hegel, Green ; Neo-liberal Theory- Hayek, Rawls, Nozick.	9	SM
3. Sovereignty : Monistic and Pluralistic. Changing concept of sovereignty in the context of globalization.	8	RM
4. Liberty, Equality, Law, Justice, Obligation- Basic concepts and their interrelations.	7	SP
5. Rights: Meaning and Nature. Theories of Rights. Right to resistance	7	AR
6. Democracy- Its changing perspectives and representative theories.	6	SD
2nd Half		
1. Basic concepts in Marxism : Dialectics- Historical Materialism. Classes and Class Struggle.	8	RM
2. Base- superstructure relation in Marxism. Gramsci's contribution: An outline.	6	DD
3. Marxist theory of state. Concept of relative autonomy. Miliband-Poulantzas debate.	7	SM
4. Marxian theory of revolution: Marx, Lenin and Mao.	6	SD
5. Some major debates in Marxism: (a) Lenin-Rosa debate on party ;(b) Stalin-Trotsky debate on Socialism in one country.	6	AR

Nabadwip Vidyasagar College
Syllabus Modularization 2017-18
Dept. of Political Science
Paper-II (Honours)

Comparative Constitutional Systems (Paper-II)	No. of Lecture	Name of the Teacher
1st Half		
1. Development of the study of Comparative Constitutional Systems.	6	DD
2. Parliamentary and Presidential systems in U.K and U.S.A.	6	SM
3. Unitary and Federal systems.	6	SP
4. Constitutional systems in France and Switzerland : Unique features.	7	RM
5. Rights of the citizens in U.K , U.S.A and PRC: A comparative estimate. Fundamental Duties in the PRC.	8	SD
2nd Half		
1. Legislatures in the U.K and U.S.A- Compositions and functions of legislative chambers - Roles of key officials / functionaries : Speaker in the U.K and U.S.A. Role of second chambers in U.K and U.S.A. Committee System in U.K and U.S.A.. President of the NPC in PRC.	10	SM
2. Executive in the U.K ,U.S.A ,PRC-Comparisons of similarities and differences: (a) British Monarchy-Role and relevance. (b) British Prime minister and US President. (c) British and American cabinets.	10	RM
3. Relation between executive and legislature in the U.K, U.S.A and PRC.	5	SP
4. Judiciary in the U.K , U.S.A and PRC (with special reference to the Procuratorate).	7	AR
5. Civil Service in U.K and U.S.A : Nature ,role and functions.	6	DD

Nabadwip Vidyasagar College
Syllabus Modularization 2017-18
Dept. of Political Science

Paper-III (Honours)

Government and Politics in India (Paper-III)	No. of Lecture	Name of the Teacher
1st Half		
1. Framing of the Indian constitution-Background and the role of the Constituent Assembly	6	DD
2. The Preamble.	2	SD
3. Fundamental Rights and Duties –Directive principles of state policy.	7	SP
4. Union-state relations: Changing patterns and recent trends.	6	AR
5. Union Executive-President, Vice-president, Cabinet and Prime Minister, President-Prime Minister relationship, Prime Minister –Council of Ministers relationship. State ExecutiveGovernor: Position and functions- Chief minister: Position and functions-Council of Ministers.	10	SM
6. Union Legislature: Organization and functions –Relation between Rajya Sabha and Lok SabhaProcess of Law making-Parliamentary Priveleges- Committee system – Speaker. State Legislature- Composition and functions.	10	RM
7. The Judiciary –Supreme Court and High Court-Composition , jurisdictions and functionsJudicial Review and Judicial Activism. Lokadalat.	9	DD
8. Constitution Amendment: Procedure.	4	SD
2nd Half		
1. Party System-Feature and Trends – Major National Political Parties in India: Ideologies and Programmes. Regional Political Parties in India: A brief outline. Coalition Politics in India: An Overview.	9	SM
2. Classes and interest groups –Role of business groups ,trade unions ,peasant organizations.	5	SM
3. Composition ,functions and role of the Election Commission. Various proposals of electoral reforms.	6	DD
4. Religion and politics in India.	4	SP
5. Caste in Indian politics-Politics of reservation.	4	AR
6. Tribes and tribal movements.	4	SD
7. Regionalism in Indian politics.	4	SP

8. New Social Movements in the field of Environment, Gender and Human Rights.	7	RM
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Nabadwip Vidyasagar College
Syllabus Modularization 2017-18
Dept. of Political Science
Paper-IV (Honours)

Western Political Thought (Paper-IV)	No. of Lecture	Name of the Teacher
1st Half		
1. Greek Political Thought-Features –Plato’s theory of Justice , Communism and Education-Aristotle’s theory of State and Justice.	7	DD
2. Roman Political Thought –Theories of Law and Citizenship with special reference to the influence of Greek Stoicism and Roman Jurisprudence-Contribution of Cicero and Seneca : A brief outline.	9	RM
3. Medieval Political Thought in Europe with special reference to St . Augustine, St. Thomas Aquinas and Marshiglio of Padua (brief outline).	8	SM
4. Renaissance Thought: Main features. Contributions of Machiavelli.	6	SD
5. Political Thought of Reformation with special reference to Luther and Calvin.	6	AR
6. Bodin-Theories of State and Sovereignty.	4	SP
2nd Half		
1. Hobbes-Sovereignty and Obligation	5	SD
2. Locke-Views on Natural Liberty, Property and Consent.	6	AR
3. Rousseau-General Will-Contribution to Modern Political Thought.	6	DD
4. Bentham’s contribution to liberalism: Utilitarian philosophy -John Stuart Mill- Modifications of Utilitarianism-Concepts of Liberty and Democracy.	7	SM
5. Hegel and German Idealism-Concepts of Civil Society and State.	7	RM
6. Varieties of Socialism: Utopian, Scientific, Fabianism, Syndicalism, Guild Socialism, German Revisionism.	8	DD
7. Anarchism: Contribution of Proudhon, Bakunin, Kropotkin.	6	SM

Nabadwip Vidyasagar College
Syllabus Modularization 2017-18
Dept. of Political Science
Paper-V (Honours)

International Relations (Paper-V)	No. of Lectur e	Name of the Teacher
1st Half		
1. International Relations: A Brief Outline and development as an academic discipline.	6	DD
2. Approaches to the study of International Relations: (a) Liberalism; (b) Realism; (c) World Systems.	6	RM
3. Major concepts in International Relations: National Power; Balance of Power; Collective Security; Bipolarity; Multipolarity; Unipolarity ; National Interest; Globalization.	9	AR
4. Foreign Policy Making: Basic concept-Techniques of implementation of Foreign Policy: Diplomacy, Propaganda, Foreign Aid.	9	SP
5. International Organizations: (a) The United Nations: Its peacekeeping functions-Reform of the UN. (b) International Financial Institutions : World Bank; IMF; WTO. (c) Regional Organizations : SAARC ;ASEAN;EU;AU.	11	SM
2nd Half		
1. Cold War and its Phases: A Broad Outline.	5	SD
2. End of Cold War and the emerging world order.	5	SM
3. Major Issues in contemporary international relations: (a) Development and Environment. (b) Human Rights (c) Terrorism (d) Regionalism.	7	SP
4. India's Foreign Policy (a) Basic Determinants. (b) Evolution of India's Foreign Policy: An Outline (c) Indo-US, Indo-Pak, Indo-China relations in the post cold war era.	9	RM
5. US Foreign Policy in the post cold war era : Major issues. US	8	DD

Foreign policy towards China in the post cold war era.		
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Nabadwip Vidyasagar College
Syllabus Modularization 2017-18
Dept. of Political Science
Paper-VI (Honours)

Indian Political Thought and Movement (Paper-VI)	No. of Lecture	Name of the Teacher
1st Half		
1. Sources of Indian Political Thought-Features of Ancient Indian Political thought-Dharma and Danda-The Seven Elements of the State- Kingship-Law-Dandaniti-Diplomacy.	9	DD
2. Medieval Political Thought in India -Legitimacy of Kingship-Duties and responsibilities of a Muslim Ruler.	7	RM
3. Modern Indian Thought-Political Faith of the Indian Liberals: Broad Outline. Rammohan Roy's views on the Rule of Law-Freedom of Thought and Social Justice.	9	SM
4. Nationalism: The views of Bankim Chandra and Rabindranath.	5	AR
5. Passive Resistance: The views of Tilak and Aurobindo.	5	SD
6. Gandhi : The ideas of State and Trusteeship.	5	RM
7. M.N Roy: Radical Humanism.	4	SM
8. R.N Lohia: Distinctive contribution to Socialism.	4	SP
2nd Half		
1. Revolt of 1857:Nature and Consequences.	5	AR
2. Evolution of Indian National Congress from 1885 till the rise of Gandhi: A Brief Outline.	6	SD
3. Aligarh Movement and Sir Syed Ahmed Khan.	4	SP
4. Bengal Partition and Swadeshi Movement.	5	DD
5. Khilafat and Non-cooperation movement-Civil Disobedience Movement.	5	DD
6. Revolutionary Terrorism.	5	RM
7. Movements against Caste system and Untouchability -Phule to Ambedkar.	7	RM

8. Class and the Nationalist Movement under colonial rule: Working Class Movements and Peasants Movements.	5	SM
9. Roots of communal politics-Savarkar, Jinnah and Two Nation Theory.	6	SM
10. August 1942 movement-Subhas Chandra Bose and the INA-Naval Uprising.	6	SD

Nabadwip Vidyasagar College

Syllabus Modularization 2017-18

Dept. of Political Science

Paper-VII (Honours)

Political Sociology (Paper-VII)	No. of Lectur e	Name of the Teacher
1st Half		
1. Definition, Scope and Subject Matter-Social Bases of Politics.	5	DD
2. Process of State formation in North and West Europe, and in Third World.	5	SM
3. Social Stratification and Politics-Caste, Class and Elites. H-4 University of Kalyani Honours Course in Political Science	7	RM
4. Gender and Politics :Basic Issues.	4	AR
5. Powers – Forms and Bases. Power, Authority and Legitimacy: Nature and Types.	6	SP
6. Classification and Types of Political Systems.	5	SD
7. Religion, Society and Politics.	4	SM
2nd Half		
1. Political Parties and Pressure Groups- Types, Functions and Role.	6	RM
2. Bureaucracy-Role in Politics and Development.	5	DD
3. Political Culture and Political Socialization -Types of Political Culture-Agencies and Functions of Political Socialization.	7	SM
4. Political Participation-Forms and Determinants- Political Apathy – Sources and Solutions.	6	AR
5. Modernization and Development.	4	SD

6. Military in Politics-Forms and Types of Intervention – Institutional Checks on Intervention.	6	SP
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Nabadwip Vidyasagar College
Syllabus Modularization 2017-18
Dept. of Political Science
Paper-VIII (Honours)

Public Administration (Paper-VIII)	No. of Lecture	Name of the Teacher
1st Half		
1. Meaning, Nature and Scope of Public Administration – Evolution as a discipline and critical stages.	6	RM
2. Politics-Administration Dichotomy and its Critics.	5	DD
3. Classical Theory of Administration -Its motivational aspects and formal administrative framework: Taylor’s Scientific Management -Classical Theory of Organization of Fayol, Gulick and Urwick, Mooney, Reilley and Follett .	10	SM
4. Weber’s Theory of Bureaucracy -Features of Bureaucracy and Distinction from Non - Bureaucratic Administration.	9	SM
5. Rational Theory of Decision-Making- Simon’s Behaviour Alternative Model with special reference to the concepts of ‘Satisficing’ and ‘Bounded Rationality’.	9	RM
6. Development Administration: Contribution of Riggs. Reasons of Emergence -Basic Features and Goals. Difference from Traditional Public Administration.	9	SP
7. Budgeting-Meaning and Significance-Types of Budgeting-Their Merits and Demerits.	7	AR
8. Public Administration in the age of Globalization and Liberalization.	6	SD
2nd Half		
1. A Few Important Central Ministries: Ministries of Home, Finance and External Affairs.	6	SM
2. Secretariat Administration-The Cabinet Secretary-Prime Minister’s Secretariat and P.M.O.	7	DD
3. Planning Process in India –The Planning Commission and its rise and decline. -National Development Council-Finance Commission.	7	RM
4. Bureaucracy in India- The Generalist-Specialist (Technocrat) controversy.	5	SP
5. Personnel Administration in India -Role of UPSC.	4	SD

6. Legislative Control over Administration -The Public Accounts Committee -The Estimates Committee.	6	AR
7. Forms of Public Sector in India -Patterns of Management.	5	SM
8. Judicial Control over Public Administration in India.	5	DD
9. Local Self-Government in India-Urban and Rural-Structure and Functions.	6	RM

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
PART –I POLITICAL SCIENCE(GENERAL)
PAPER – 1 POLITICAL THEORY
2017-18

Topic	Name of the Teacher	No of Classes
1)Nature and scope of political science – different approaches to political science: Normative, Behavioural, Marxist 2)Theories of state : a) Contract Theory b)Idealist Theory c)Liberal and Neo Liberal Theory d) Marxist Theory e)Gandhian Theory	SAMIR MITRA (SM)	25
3)Sovereignty of the state: monistic and pluralistic theories – doctrine of popular sovereignty 4) some representative concept : a)Nationalism and internationalism:meaning &features b)democracy:meaning&nature C)fascism: meaning&nature	RINTU MOHANTA (RM)	20
5)Nature of international relation as a branch of study – liberal & realist approaches to international relations	ANITA ROY (AR)	8
6)laws :meaning,sources,nature. international law:meaning and nature 7)Right, Equality, liberty –Meaning and nature relation between liberty & Equality – safeguards of liberty – right to resistance	SUBRATA DAS (SD)	16
8)Marxism : dialectcal and historical materialism ; concepts of class and class struggle theory of revolution lenin s theory of imperialism	DEBASIS DAS (DD)	14
9)Political parties and interest groups: their functions and role in modern states methods of representation : territorial, functional, proportional	SOMNATH PAL (SP)	15

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Political Science (PASS)
PAPER – II : COMPARATIVE POLITICE & GOVERNMENT
SESSION 2017-18

Topic	Name of the Teacher	No of Classes
Unit 1: Political System: Liberal-democratic, Authoritarian, Socialist Forms of Political Systems: Unitary and Federal, Parliamentary and Presidential	SAMIR MITRA (SM)	7
Unit 2: U.K.: (a) Basic features with special reference to Conventions and Rule of Law (b) Legislature: Composition and functions with reference to the Committed System and the office of the Speaker - The concept of Parliamentary Sovereignty.	RINTU MOHANTA (RM)	30
Unit 3: U.S.A.: (a) Basic features; (b) Unit Federalism; (c) Bill of Rights: (d) Legislature Composition and functions with reference to the presiding officers and Committ System	SUBRATA DAS (SD)	12
Unit4 : PRC (1982 Constitution): (a) Significance of the 1949 Revolution; (b) Basic features with special reference to General Principles; (c) Communist Party structure, functions, role; (d) Rights and Duties of Citizen; (e) The National Government:	ANITA ROY (AR)	14
Unit 5 : e) The National Government: (1)The Executive: President, Premier, State Council. (2)The Legislature: National People's Congress, Standing Committee. (3)The Judiciary.	DEBASIS DAS (DD)	12
Unit 6: Salient features of the Constitutions of France Switzerland. Sub :unit 2 (c) Executive: Composition and functions of the Cabinet with special referencto the role of the Prime Minister - The concept of Cabinet Dictatorship. (d) The role of the Crown. e) Party system-Role of the Opposition	SOMNATH PAL (SP)	16

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
PART -III Political Science (GENERAL)
PAPER – IV : CONTEMPORARY APPLICATION ORIENTED POLITICAL AND ADMINISTRATIVE
ISSUES AND REALITIES IN INDIA
SESSION 2017-18

Topic	Name of the Teacher	No of Classes
Unit1: Parliamemary Practice Process of enacting bills readings - Commitee System Speaker in action: Voting, division, Speaker's rulings - Question hour and Zero hour. Types of Questions - Adjustment-motions, Cut Motions- Calling Attention Mentions - No-Confidence Motion Well of the House Treasury and Opposition Benches- Marshall - Lobbies	SAMIR MITRA (SM)	16
Unit 2: Election Commission and the Conduct of Elections Delimitation of Constituencies -Preparation of Electoral Roll: Part, Booth, Polling Stations - Polling Personnel Postal Ballot Rigging Challenging a voter- Counting Code of Conduct - Election Survey Exit Poll Filing of Nominations Withdrawal Forfeiture of Deposit-State Election Commission in west bengal	RINTU MOHANTA (RM)	19
Unit 3: . Panchayats in Action (with reference to West Bengal) Vertical (Union Government Programmes (relating to rural development and employment) Local (StateGovernment Frogrammes (relating to heracy and healthierarchy-wise implementation of projects Planning: DPCC to Gram Sabha	SUBRATA DAS (SD)	18

Nabadwip Vidyasagar College
Syllabus Modularization 2018-19

Dept. of Political Science

Paper-III (Honours)

Government and Politics in India (Paper-III)	No. of Lecture	Name of the Teacher
1st Half		
1. Framing of the Indian constitution-Background and the role of the Constituent Assembly	6	DD
2. The Preamble.	2	SD
3. Fundamental Rights and Duties –Directive principles of state policy.	7	SP
4. Union-state relations: Changing patterns and recent trends.	6	AR
5. Union Executive-President, Vice-president, Cabinet and Prime Minister, President-Prime Minister relationship, Prime Minister –Council of Ministers relationship. State ExecutiveGovernor: Position and functions- Chief minister: Position and functions-Council of Ministers.	10	SM
6. Union Legislature: Organization and functions –Relation between Rajya Sabha and Lok SabhaProcess of Law making-Parliamentary Priveleges- Committee system – Speaker. State Legislature- Composition and functions.	10	RM
7. The Judiciary –Supreme Court and High Court-Composition , jurisdictions and functionsJudicial Review and Judicial Activism. Lokadalat.	9	DD
8. Constitution Amendment: Procedure.	4	SD
2nd Half		
1. Party System-Feature and Trends – Major National Political Parties in India: Ideologies and Programmes. Regional Political Parties in India: A brief outline. Coalition Politics in India: An Overview.	9	SM
2. Classes and interest groups –Role of business groups ,trade unions ,peasant organizations.	5	SM
3. Composition ,functions and role of the Election Commission. Various proposals of electoral reforms.	6	DD
4. Religion and politics in India.	4	SP
5. Caste in Indian politics-Politics of reservation.	4	AR
6. Tribes and tribal movements.	4	SD
7. Regionalism in Indian politics.	4	SP
8. New Social Movements in the field of Environment, Gender and Human Rights.	7	RM

Nabadwip Vidyasagar College
Syllabus Modularization 2018-19
Dept. of Political Science
Paper-IV (Honours)

Western Political Thought (Paper-IV)	No. of Lecture	Name of the Teacher
1st Half		
1. Greek Political Thought-Features –Plato’s theory of Justice , Communism and Education-Aristotle’s theory of State and Justice.	7	DD
2. Roman Political Thought –Theories of Law and Citizenship with special reference to the influence of Greek Stoicism and Roman Jurisprudence-Contribution of Cicero and Seneca : A brief outline.	9	RM
3. Medieval Political Thought in Europe with special reference to St . Augustine, St. Thomas Aquinas and Marshiglio of Padua (brief outline).	8	SM
4. Renaissance Thought: Main features. Contributions of Machiavelli.	6	SD
5. Political Thought of Reformation with special reference to Luther and Calvin.	6	AR
6. Bodin-Theories of State and Sovereignty.	4	SP
2nd Half		
1. Hobbes-Sovereignty and Obligation	5	SD
2. Locke-Views on Natural Liberty, Property and Consent.	6	AR
3. Rousseau-General Will-Contribution to Modern Political Thought.	6	DD
4. Bentham’s contribution to liberalism: Utilitarian philosophy -John Stuart Mill-Modifications of Utilitarianism-Concepts of Liberty and Democracy.	7	SM
5. Hegel and German Idealism-Concepts of Civil Society and State.	7	RM
6. Varieties of Socialism: Utopian, Scientific, Fabianism, Syndicalism, Guild Socialism, German Revisionism.	8	DD
7. Anarchism: Contribution of Proudhon, Bakunin, Kropotkin.	6	SM

Nabadwip Vidyasagar College
Syllabus Modularization 2018-19
Dept. of Political Science
Paper-V (Honours)

International Relations (Paper-V)	No. of Lectur e	Name of the Teacher
1st Half		
1. International Relations: A Brief Outline and development as an academic discipline.	6	DD
2. Approaches to the study of International Relations: (a) Liberalism; (b) Realism; (c) World Systems.	6	RM
3. Major concepts in International Relations: National Power; Balance of Power; Collective Security; Bipolarity; Multipolarity; Unipolarity ; National Interest; Globalization.	9	AR
4. Foreign Policy Making: Basic concept-Techniques of implementation of Foreign Policy: Diplomacy, Propaganda, Foreign Aid.	9	SP
5. International Organizations: (a) The United Nations: Its peacekeeping functions-Reform of the UN. (b) International Financial Institutions : World Bank; IMF; WTO. (c) Regional Organizations :SAARC ;ASEAN;EU;AU.	11	SM
2nd Half		
1. Cold War and its Phases: A Broad Outline.	5	SD
2. End of Cold War and the emerging world order.	5	SM
3. Major Issues in contemporary international relations: (a) Development and Environment. (b) Human Rights (c) Terrorism (d) Regionalism.	7	SP
4. India's Foreign Policy (a) Basic Determinants. (b) Evolution of India's Foreign Policy: An Outline (c) Indo-US, Indo-Pak, Indo-China relations in the post cold war era.	9	RM

5. US Foreign Policy in the post cold war era : Major issues. US Foreign policy towards China in the post cold war era.	8	DD
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Nabadwip Vidyasagar College

Syllabus Modularization 2018-19

Dept. of Political Science

Paper-VI (Honours)

Indian Political Thought and Movement (Paper-VI)	No. of Lecture	Name of the Teacher
1st Half		
1. Sources of Indian Political Thought-Features of Ancient Indian Political thought-Dharma and Danda-The Seven Elements of the State- Kingship-Law-Dandaniti-Diplomacy.	9	DD
2. Medieval Political Thought in India -Legitimacy of Kingship-Duties and responsibilities of a Muslim Ruler.	7	RM
3. Modern Indian Thought-Political Faith of the Indian Liberals: Broad Outline. Rammohan Roy's views on the Rule of Law-Freedom of Thought and Social Justice.	9	SM
4. Nationalism: The views of Bankim Chandra and Rabindranath.	5	AR
5. Passive Resistance: The views of Tilak and Aurobindo.	5	SD
6. Gandhi : The ideas of State and Trusteeship.	5	RM
7. M.N Roy: Radical Humanism.	4	SM
8. R.N Lohia: Distinctive contribution to Socialism.	4	SP
2nd Half		
1. Revolt of 1857:Nature and Consequences.	5	AR
2. Evolution of Indian National Congress from 1885 till the rise of Gandhi: A Brief Outline.	6	SD
3. Aligarh Movement and Sir Syed Ahmed Khan.	4	SP
4. Bengal Partition and Swadeshi Movement.	5	DD
5. Khilafat and Non-cooperation movement-Civil Disobedience Movement.	5	DD
6. Revolutionary Terrorism.	5	RM
7. Movements against Caste system and Untouchability -Phule to Ambedkar.	7	RM
8. Class and the Nationalist Movement under colonial rule: Working Class Movements and Peasants Movements.	5	SM

9. Roots of communal politics-Savarkar, Jinnah and Two Nation Theory.	6	SM
10. August 1942 movement-Subhas Chandra Bose and the INA-Naval Uprising.	6	SD

Nabadwip Vidyasagar College
Syllabus Modularization 2018-19
Dept. of Political Science
Paper-VII (Honours)

Political Sociology (Paper-VII)	No. of Lecture	Name of the Teacher
1st Half		
1. Definition, Scope and Subject Matter-Social Bases of Politics.	5	DD
2. Process of State formation in North and West Europe, and in Third World.	5	SM
3. Social Stratification and Politics-Caste, Class and Elites. H-4 University of Kalyani Honours Course in Political Science	7	RM
4. Gender and Politics :Basic Issues.	4	AR
5. Powers – Forms and Bases. Power, Authority and Legitimacy: Nature and Types.	6	SP
6. Classification and Types of Political Systems.	5	SD
7. Religion, Society and Politics.	4	SM
2nd Half		
1. Political Parties and Pressure Groups- Types, Functions and Role.	6	RM
2. Bureaucracy-Role in Politics and Development.	5	DD
3. Political Culture and Political Socialization -Types of Political Culture-Agencies and Functions of Political Socialization.	7	SM
4. Political Participation-Forms and Determinants- Political Apathy – Sources and Solutions.	6	AR

5. Modernization and Development.	4	SD
6. Military in Politics-Forms and Types of Intervention – Institutional Checks on Intervention.	6	SP

Nabadwip Vidyasagar College
Syllabus Modularization 2018-19
Dept. of Political Science
Paper-VIII (Honours)

Public Administration (Paper-VIII)	No. of Lecture	Name of the Teacher
1st Half		
1. Meaning, Nature and Scope of Public Administration – Evolution as a discipline and critical stages.	6	RM
2. Politics-Administration Dichotomy and its Critics.	5	DD
3. Classical Theory of Administration -Its motivational aspects and formal administrative framework: Taylor's Scientific Management -Classical Theory of Organization of Fayol, Gulick and Urwick, Mooney, Reilley and Follett .	10	SM
4. Weber's Theory of Bureaucracy -Features of Bureaucracy and Distinction from Non - Bureaucratic Administration.	9	SM
5. Rational Theory of Decision-Making- Simon's Behaviour Alternative Model with special reference to the concepts of 'Satisficing' and 'Bounded Rationality'.	9	RM
6. Development Administration: Contribution of Riggs. Reasons of Emergence -Basic Features and Goals. Difference from Traditional Public Administration.	9	SP
7. Budgeting-Meaning and Significance-Types of Budgeting-Their Merits and Demerits.	7	AR
8. Public Administration in the age of Globalization and Liberalization.	6	SD
2nd Half		
1. A Few Important Central Ministries: Ministries of Home, Finance and External Affairs.	6	SM
2. Secretariat Administration-The Cabinet Secretary-Prime Minister's Secretariat and P.M.O.	7	DD
3. Planning Process in India –The Planning Commission and its rise and decline. -National Development Council-Finance Commission.	7	RM
4. Bureaucracy in India- The Generalist-Specialist (Technocrat) controversy.	5	SP
5. Personnel Administration in India -Role of UPSC.	4	SD

6. Legislative Control over Administration -The Public Accounts Committee -The Estimates Committee.	6	AR
7. Forms of Public Sector in India -Patterns of Management.	5	SM
8. Judicial Control over Public Administration in India.	5	DD
9. Local Self-Government in India-Urban and Rural-Structure and Functions.	6	RM

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Political Science (PASS)
PAPER – II : COMPARATIVE POLITICE & GOVERNMENT
SESSION 2018-19

Topic	Name of the Teacher	No of Classes
Unit 1: Political System: Liberal-democratic, Authoritarian, Socialist Forms of Political Systems: Unitary and Federal, Parliamentary and Presidential	SAMIR MITRA (SM)	7
Unit 2: U.K.: (a) Basic features with special reference to Conventions and Rule of Law (b) Legislature: Composition and functions with reference to the Committed System and the office of the Speaker - The concept of Parliamentary Sovereignty.	RINTU MOHANTA (RM)	30
Unit 3: U.S.A.: (a) Basic features; (b) Unit Federalism; (c) Bill of Rights: (d) Legislature Composition and functions with reference to the presiding officers and Committ System	SUBRATA DAS (SD)	12
Unit4 : PRC (1982 Constitution): (a) Significance of the 1949 Revolution; (b) Basic features with special reference to General Principles; (c) Communist Party structure, functions, role; (d) Rights and Duties of Citizen; (e) The National Government:	ANITA ROY (AR)	14
Unit 5 : e) The National Government: (1)The Executive: President, Premier, State Council. (2)The Legislature: National People's Congress, Standing Committee. (3)The Judiciary.	DEBASIS DAS (DD)	12
Unit 6: Salient features of the Constitutions of France Switzerland. Sub :unit 2 (c) Executive: Composition and functions of the Cabinet with special referenco the role of the Prime Minister - The concept of Cabinet Dictatorship. (d) The role of the Crown. e) Party system-Role of the Opposition	SOMNATH PAL (SP)	16

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
PART -III Political Science (GENERAL)

**PAPER – IV : CONTEMPORARY APPLICATION ORIENTED POLITICAL AND ADMINISTRATIVE
ISSUES AND REALITIES IN INDIA**

SESSION 2018-19

Topic	Name of the Teacher	No of Classes
Unit1: Parliamemary Practice Process of enacting bills readings - Commitee System Speaker in action: Voting, division, Speaker's rulings - Question hour and Zero hour. Types of Questions - Adjustment-motions, Cut Motions- Calling Attention Mentions - No-Confidence Motion Well of the House Treasury and Opposition Benches- Marshall - Lobbies	SAMIR MITRA (SM)	16
Unit 2: Election Commission and the Conduct of Elections Delimitation of Constituencies -Preparation of Electoral Roll: Part, Booth, Polling Stations - Polling Personnel Postal Ballot Rigging Challenging a voter- Counting Code of Conduct - Election Survey Exit Poll Filing of Nominations Withdrawal Forfeiture of Deposit-State Election Commission in west bengal	RINTU MOHANTA (RM)	19
Unit 3: . Panchayats in Action (with reference to West Bengal) Vertical (Union Government Programmes (relating to rural development and employment) Local (StateGovernment Programmes (relating to heracy and healthierarchy-wise implementation of projects Planning: DPCC to Gram Sabha	SUBRATA DAS (SD)	18

Nabadwip Vidyasagar College
 Syllabus Modularization 2018-19
 Dept. of Political Science
 Semester-1 (Honours), CC-1

Political Theory: Concepts (CC-1)	No. of Lecture	Teacher
Unit 1: What is Politics? Meaning of Political.	4	Debashis Das
Unit 2: Key concepts I: State; Nation; Sovereignty (evolution); Power and Authority--- types and linkages;	7	Somenath Pal
Unit 3: Key concepts II: Law. Liberty, Equality—Their interrelationships.	9	Samir Mitra
Unit 4: Key concepts III: Rights; Justice (with special reference to Rawls); Freedom.	7	Somenath Pal
Unit 5: Key concepts IV: Democracy (with special reference to David Held); Authoritarianism.	6	Debashis Das
Unit 6: Key concepts V: Citizenship	4	Samir Mitra

Nabadwip Vidyasagar College
 Syllabus Modularization 2018-19
 Dept. of Political Science
 Semester-1 (Honours), CC-2

Political Theory: Approaches and Debates (CC-2)	No. of Lecture	Teacher
Unit 1: Approaches I: Normative; Legal-Institutional; Empirical-Behavioural---Systems Analysis; Structural - Functionalism.	9	Rintu Mohanta
Unit 2: Approaches II: Liberalism; Social Welfarism; Neo-Liberalism.	7	Anita Roy
Unit 3: Approaches III: Postcolonial; Feminist.	5	Anita Roy
Unit 4: Marxian approach--- Dialectical Materialism and Historical Materialism.	6	Somenath Pal
Unit 5: Key ideas: State (focus on Relative Autonomy); Class and Class Struggle; Surplus Value; Alienation.	5	Somenath Pal
Unit 6: Party--- Democratic Centralism; Lenin-Rosa Luxemburg debate; Revolution--- Lenin and Mao. Hegemony and Civil Society: Gramsci.	6	Rintu Mohanta

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- I, Political Science (GE)
POL-G-GE-T-1(A): Nationalism in India
SESSION 2018-2019

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern interpretations	DEBABHIS DAS (DD)	6
Unit 2: Colonial Rule in India and its impact: On agriculture, land relations, industry and administration system.	RINTU MOHANTA (RM)	6
Unit 3: Reform and Resistance: a. The Revolt of 1857 b. Major social and religious movements c. Education and the rise of the new middle class in India.	SAMIR MITRA (SM)	7
Unit 4: Nationalist Politics and Expansion of its Social Base: a. Phases of the Nationalist Movement: Birth of INC & Liberal constitutionalist phase , Swadeshi and the Radicals, Formation of the Muslim League b. Gandhi and mass mobilization: Non-cooperation, Civil Disobedience, and Quit India Movements c. Socialist alternatives: Congress socialists, Communists.	SOMNATH PAL (SP)	8
Unit 5: Social Movements - The Women's Question: participation in the national movement and its impact - The Caste Question: anti-Brahmanical Politics - Peasant, Tribal, and Workers movements in Colonial India	SUBRATA DAS (SD)	8
Unit6: Partition and Independence: Communalism in Indian Politics – The Two-Nation Theory, Negotiations over Partition	ANITA ROY (AR)	4

Nabadwip Vidyasagar College
 Syllabus Modularization 2018-19
 Dept. of Political Science
 Semester-II (Honours), CC-3

Politics in India POL-H-CC-T-3	No. of Lecture	Teacher
Unit 1. Approaches to the Study of Indian Politics – Marxist and Liberal- Indian Political Culture- Various Interpretations.	7	Debashis Das
Unit2. The Indian Party System – Main Features- Major National Political Parties – Major Regional Political Parties- From the Congress System to Multi-Party Coalitions.	8	Samir Mitra
Unit 3. Identity Politics and Social Cleavages in India- Role of Caste, Class and Religion in politics.	4	Debashis Das
Unit 4. Electoral Politics in India: The Election Commission- Electoral Reforms in India – Voting Behaviour in India- Its major determinants- Defection Politics in India – Crime and Politics in India.	9	Samir Mitra
Unit 5. Nation Building in India – Major Challenges - Regionalism in India- Main Components- Regionalism versus Nationalism Debate- Major Regional movements in India – Gorkhaland and Bodoland movement.	7	Debashis Das

Nabadwip Vidyasagar College
 Syllabus Modularization 2018-19
 Dept. of Political Science
 Semester-II (Honours), CC-4

Indian Constitution POL-H-CC-T-4	No. of Lecture	Teacher
Unit 1. Framing of the Indian Constitution: Role of the Constituent Assembly, the Preamble and Philosophy of Indian Constitution.	6	Rintu Mohanta
Unit2. Rights and Duties: Fundamental Rights and Duties, Directive Principles of State Policy.	7	Subrata Das
Unit 3. Federalism and Decentralization in India: Nature of Indian Federalism: Union-State Relations – Nature and Evolving Trends of Federalism in India, 5th and 6th Schedules, Panchayati Raj and Municipalities.	9	Subrata Das
Unit 4. Union Executive: President and Vice President. Prime Minister and Council of Ministers, Relationship between President and Prime Minister	7	Somenath Pal
Unit 5. Union Legislature: Rajya Sabha and Lok Sabha: Composition and Functions, Speaker.	7	Anita Roy
Unit 6: The Judiciary: Supreme Court and High Courts – Composition and Functions, Judicial Activism & Public Interest Litigation (PIL).	7	Rintu Mohanta

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- II, Political Science (GE)
POL-G-GE-T-2(A): Human Rights, Gender and Environment
SESSION 2018-2019

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Social Inequality : Caste, Gender, Ethnicity and Class as distinct categories and their interconnection. Globalisation and its impact on workers, peasants, dalits, adivasis and women.	RINTU MOHANTA (RM)	7
Unit 2: Human Rights : Human Rights: Various Meanings, UN Declarations and Covenants Human Rights and Citizenship Rights, Human Rights and the Indian Constitution	SUBRATA DAS (SD)	6
Unit 2: Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission. Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers. Consumer Rights: The Consumer Protection Act and grievance Redressal mechanisms, Human Rights Movement in India.	SOMNATH PAL (SP)	7
Unit 3: Unit 3: Gender: Analysing Structures of Patriarchy, Gender, Culture and History, Economic Development and Women, The issue of Women’s Political Participation and Representation in India Laws, Institutions and Women’s Rights in India, Women’s Movements in India.	SOMNATH PAL (SP)	8
Unit 4: Environment: Environmental and Sustainable Development UN Environment Programme: Rio, Johannesburg and after; Issues of Industrial Pollution, Global Warming and threats to Bio – diversity Environment Policy in India, Environmental Movement in India.	SAMIR MITRA (SM)	9

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- I, Political Science (PASS)
SESSION - 2018 -2019
POL-G-CC-T-1: Introduction to Political Theory

Name of the Teacher	Topic	No of Classes
SAMIR MITRA (SM)	Unit 1: What is Politics – What is Political Theory and what is its relevance?- Approaches to the study of Politics: Normative, Behavioural and Post-behavioural, Marxist and Feminist	7
RINTU MOHANTA (RM)	Unit 2: Theories of the State (a) Origin: Social Contract Theory; (b) Nature: Idealist, Liberal and Neo-liberal theories.	5
ANITA ROY (AR)	Unit 3: Concept of State Sovereignty: Monistic and Pluralistic theorise	4
SUBRATA DAS (SD)	Unit 4: Liberty, Justice, Equality, Rights, State, Civil Society and Law: Meaning and their interrelations	10
DEBASIS DAS (DD)	Unit 5: Democracy: Meaning and typology	4
SOMNATH PAL (SP)	Unit 6: Debates in Political Theory: i) Is democracy compatible with economic growth? ii) On what grounds is censorship justified and what are its limits? iii) Does Protective Discrimination violate principles of fairness? iv) Should the state intervene in the institution of the family?	5

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- II, Political Science (PASS)
SESSION – 2018-2019
POL-G-CC-T-2: Indian Government and Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of Indian Politics and Nature of the State in India: Liberal, Marxist and Gandhian	DEBASHIS DAS (DD)	8
Unit 2: Indian Constitution: Basic Features, Debates on Fundamental Rights and Directive Principles of State Policy	SAMIR MITRA (SM)	8
Unit 3: Union Executive: President and Vice-President – Election, power and position. Prime Minister – Power and position; Council of Ministers; Relationship of President and Prime Minister,	RINTU MOHANTA (RM)	10
Unit 4: Union Legislature: Rajya Sabha and Lok Sabha: Composition and functions; Speaker. The Judiciary: Supreme Court and High Courts – Compositions and functions	SUBRATA DAS (SD)	10
Unit 5: Religion and Politics: debates on secularism and communalism	SOMNATH PAL (SP)	4
Unit 6: Power Structure in India: Role of Caste, class and patriarchy Unit 7: Social Movements: Workers, Peasants, Environmental and Women’s Movement	ANITA ROY (AR)	8

Nabadwip Vidyasagar College
Syllabus Modularization 2019-20
Dept. of Political Science
Paper-V (Honours)

International Relations (Paper-V)	No. of Lecture	Name of the Teacher
1st Half		
1. International Relations: A Brief Outline and development as an academic discipline.	6	DD
2. Approaches to the study of International Relations: (a) Liberalism; (b) Realism; (c) World Systems.	6	RM
3. Major concepts in International Relations: National Power; Balance of Power; Collective Security; Bipolarity; Multipolarity; Unipolarity ; National Interest; Globalization.	9	AR
4. Foreign Policy Making: Basic concept-Techniques of implementation of Foreign Policy: Diplomacy, Propaganda, Foreign Aid.	9	SP
5. International Organizations: (a) The United Nations: Its peacekeeping functions-Reform of the UN. (b) International Financial Institutions : World Bank; IMF; WTO. (c) Regional Organizations :SAARC ;ASEAN;EU;AU.	11	SM
2nd Half		
1. Cold War and its Phases: A Broad Outline.	5	SD
2. End of Cold War and the emerging world order.	5	SM
3. Major Issues in contemporary international relations: (a) Development and Environment. (b) Human Rights (c) Terrorism (d) Regionalism.	7	SP
4. India's Foreign Policy (a) Basic Determinants. (b) Evolution of India's Foreign Policy: An Outline (c) Indo-US, Indo-Pak, Indo-China relations in the post cold war era.	9	RM
5. US Foreign Policy in the post cold war era : Major issues. US Foreign policy towards China in the post cold war era.	8	DD

Nabadwip Vidyasagar College
Syllabus Modularization 2019-20
Dept. of Political Science
Paper-VI (Honours)

Indian Political Thought and Movement (Paper-VI)	No. of Lecture	Name of the Teacher
1st Half		
1. Sources of Indian Political Thought-Features of Ancient Indian Political thought-Dharma and Danda-The Seven Elements of the State- Kingship-Law-Dandaniti-Diplomacy.	9	DD
2. Medieval Political Thought in India -Legitimacy of Kingship-Duties and responsibilities of a Muslim Ruler.	7	RM
3. Modern Indian Thought-Political Faith of the Indian Liberals: Broad Outline. Rammohan Roy's views on the Rule of Law-Freedom of Thought and Social Justice.	9	SM
4. Nationalism: The views of Bankim Chandra and Rabindranath.	5	AR
5. Passive Resistance: The views of Tilak and Aurobindo.	5	SD
6. Gandhi : The ideas of State and Trusteeship.	5	RM
7. M.N Roy: Radical Humanism.	4	SM
8. R.N Lohia: Distinctive contribution to Socialism.	4	SP
2nd Half		
1. Revolt of 1857:Nature and Consequences.	5	AR
2. Evolution of Indian National Congress from 1885 till the rise of Gandhi: A Brief Outline.	6	SD
3. Aligarh Movement and Sir Syed Ahmed Khan.	4	SP
4. Bengal Partition and Swadeshi Movement.	5	DD
5. Khilafat and Non-cooperation movement-Civil Disobedience Movement.	5	DD
6. Revolutionary Terrorism.	5	RM
7. Movements against Caste system and Untouchability -Phule to Ambedkar.	7	RM
8. Class and the Nationalist Movement under colonial rule: Working Class Movements and Peasants Movements.	5	SM
9. Roots of communal politics-Savarkar, Jinnah and Two Nation Theory.	6	SM
10. August 1942 movement-Subhas Chandra Bose and the INA-Naval Uprising.	6	SD

Nabadwip Vidyasagar College
Syllabus Modularization 2019-20
Dept. of Political Science
Paper-VII (Honours)

Political Sociology (Paper-VII)	No. of Lecture	Name of the Teacher
1st Half		
1. Definition, Scope and Subject Matter-Social Bases of Politics.	5	DD
2. Process of State formation in North and West Europe, and in Third World.	5	SM
3. Social Stratification and Politics-Caste, Class and Elites. H-4 University of Kalyani Honours Course in Political Science	7	RM
4. Gender and Politics :Basic Issues.	4	AR
5. Powers – Forms and Bases. Power, Authority and Legitimacy: Nature and Types.	6	SP
6. Classification and Types of Political Systems.	5	SD
7. Religion, Society and Politics.	4	SM
2nd Half		
1. Political Parties and Pressure Groups- Types, Functions and Role.	6	RM
2. Bureaucracy-Role in Politics and Development.	5	DD
3. Political Culture and Political Socialization -Types of Political Culture-Agencies and Functions of Political Socialization.	7	SM
4. Political Participation-Forms and Determinants- Political Apathy – Sources and Solutions.	6	AR
5. Modernization and Development.	4	SD
6. Military in Politics-Forms and Types of Intervention –Institutional Checks on Intervention.	6	SP

Nabadwip Vidyasagar College
Syllabus Modularization 2019-20
Dept. of Political Science
Paper-VIII (Honours)

Public Administration (Paper-VIII)	No. of Lecture	Name of the Teacher
1st Half		
1. Meaning, Nature and Scope of Public Administration – Evolution as a discipline and critical stages.	6	RM
2. Politics-Administration Dichotomy and its Critics.	5	DD
3. Classical Theory of Administration -Its motivational aspects and formal administrative framework: Taylor’s Scientific Management -Classical Theory of Organization of Fayol, Gulick and Urwick, Mooney, Reilley and Follett .	10	SM
4. Weber’s Theory of Bureaucracy -Features of Bureaucracy and Distinction from Non - Bureaucratic Administration.	9	SM
5. Rational Theory of Decision-Making- Simon’s Behaviour Alternative Model with special reference to the concepts of ‘Satisficing’ and ‘Bounded Rationality’.	9	RM
6. Development Administration: Contribution of Riggs. Reasons of Emergence -Basic Features and Goals. Difference from Traditional Public Administration.	9	SP
7. Budgeting-Meaning and Significance-Types of Budgeting-Their Merits and Demerits.	7	AR
8. Public Administration in the age of Globalization and Liberalization.	6	SD
2nd Half		
1. A Few Important Central Ministries: Ministries of Home, Finance and External Affairs.	6	SM
2. Secretariat Administration-The Cabinet Secretary-Prime Minister’s Secretariat and P.M.O.	7	DD
3. Planning Process in India –The Planning Commission and its rise and decline. -National Development Council-Finance Commission.	7	RM
4. Bureaucracy in India- The Generalist-Specialist (Technocrat) controversy.	5	SP
5. Personnel Administration in India -Role of UPSC.	4	SD
6. Legislative Control over Administration -The Public Accounts Committee -The Estimates Committee.	6	AR
7. Forms of Public Sector in India -Patterns of Management.	5	SM
8. Judicial Control over Public Administration in India.	5	DD
9. Local Self-Government in India-Urban and Rural-Structure and Functions.	6	RM

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
PART -III Political Science (GENERAL)

**PAPER – IV : CONTEMPORARY APPLICATION ORIENTED POLITICAL AND ADMINISTRATIVE
ISSUES AND REALITIES IN INDIA**

SESSION 2019-20

Topic	Name of the Teacher	No of Classes
Unit1: Parliamemary Practice Process of enacting bills readings - Commitee System Speaker in action: Voting, division, Speaker's rulings - Question hour and Zero hour. Types of Questions - Adjustment-motions, Cut Motions- Calling Attention Mentions - No-Confidence Motion Well of the House Treasury and Opposition Benches- Marshall - Lobbies	SAMIR MITRA (SM)	16
Unit 2: Election Commission and the Conduct of Elections Delimitation of Constituencies -Preparation of Electoral Roll: Part, Booth, Polling Stations - Polling Personnel Postal Ballot Rigging Challenging a voter- Counting Code of Conduct - Election Survey Exit Poll Filing of Nominations Withdrawal Forfeiture of Deposit-State Election Commission in west bengal	RINTU MOHANTA (RM)	19
Unit 3: . Panchayats in Action (with reference to West Bengal) Vertical (Union Government Programmes (relating to rural development and employment) Local (StateGovernment Frogrammes (relating to heracy and healthierarchy-wise implementation of projects Planning: DPCC to Gram Sabha	SUBRATA DAS (SD)	18

Nabadwip Vidyasagar College
 Syllabus Modularization 2019-20
 Dept. of Political Science
 Semester-1 (Honours), CC-1

Political Theory: Concepts (CC-1)	No. of Lecture	Teacher
Unit 1: What is Politics? Meaning of Political.	4	Debashis Das
Unit 2: Key concepts I: State; Nation; Sovereignty (evolution); Power and Authority--- types and linkages;	7	Somenath Pal
Unit 3: Key concepts II: Law. Liberty, Equality—Their interrelationships.	9	Samir Mitra
Unit 4: Key concepts III: Rights; Justice (with special reference to Rawls); Freedom.	7	Somenath Pal
Unit 5: Key concepts IV: Democracy (with special reference to David Held); Authoritarianism.	6	Debashis Das
Unit 6: Key concepts V: Citizenship	4	Samir Mitra

Nabadwip Vidyasagar College
 Syllabus Modularization 2019-20
 Dept. of Political Science
 Semester-1 (Honours), CC-2

Political Theory: Approaches and Debates (CC-2)	No. of Lecture	Teacher
Unit 1: Approaches I: Normative; Legal-Institutional; Empirical-Behavioural---Systems Analysis; Structural - Functionalism.	9	Rintu Mohanta
Unit 2: Approaches II: Liberalism; Social Welfarism; Neo-Liberalism.	7	Anita Roy
Unit 3: Approaches III: Postcolonial; Feminist.	5	Anita Roy
Unit 4: Marxian approach--- Dialectical Materialism and Historical Materialism.	6	Somenath Pal
Unit 5: Key ideas: State (focus on Relative Autonomy); Class and Class Struggle; Surplus Value; Alienation.	5	Somenath Pal
Unit 6: Party--- Democratic Centralism; Lenin-Rosa Luxemburg debate; Revolution--- Lenin and Mao. Hegemony and Civil Society: Gramsci.	6	Rintu Mohanta

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- I, Political Science (GE)
POL-G-GE-T-1(A): Nationalism in India
SESSION 2019-2020

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern interpretations	DEBABHIS DAS (DD)	6
Unit 2: Colonial Rule in India and its impact: On agriculture, land relations, industry and administration system.	RINTU MOHANTA (RM)	6
Unit 3: Reform and Resistance: a. The Revolt of 1857 b. Major social and religious movements c. Education and the rise of the new middle class in India.	SAMIR MITRA (SM)	7
Unit 4: Nationalist Politics and Expansion of its Social Base: a. Phases of the Nationalist Movement: Birth of INC & Liberal constitutionalist phase , Swadeshi and the Radicals, Formation of the Muslim League b. Gandhi and mass mobilization: Non-cooperation, Civil Disobedience, and Quit India Movements c. Socialist alternatives: Congress socialists, Communists.	SOMNATH PAL (SP)	8
Unit 5: Social Movements - The Women's Question: participation in the national movement and its impact - The Caste Question: anti-Brahmanical Politics - Peasant, Tribal, and Workers movements in Colonial India	SUBRATA DAS (SD)	8
Unit6: Partition and Independence: Communalism in Indian Politics – The Two-Nation Theory, Negotiations over Partition	ANITA ROY (AR)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- I, Political Science (PASS)
SESSION - 2019 -2020

POL-G-CC-T-1: Introduction to Political Theory

Name of the Teacher	Topic	No of Classes
SAMIR MITRA (SM)	Unit 1: What is Politics – What is Political Theory and what is its relevance?- Approaches to the study of Politics: Normative, Behavioural and Post-behavioural, Marxist and Feminist	7
RINTU MOHANTA (RM)	Unit 2: Theories of the State (a) Origin: Social Contract Theory; (b) Nature: Idealist, Liberal and Neo-liberal theories.	5
ANITA ROY (AR)	Unit 3: Concept of State Sovereignty: Monistic and Pluralistic theorise	6
SUBRATA DAS (SD)	Unit 4: Liberty, Justice, Equality, Rights, State, Civil Society and Law: Meaning and their interrelations	10
DEBASIS DAS (DD)	Unit 5: Democracy: Meaning and typology	4
SOMNATH PAL (SP)	Unit 6: Debates in Political Theory: i) Is democracy compatible with economic growth? ii) On what grounds is censorship justified and what are its limits? iii) Does Protective Discrimination violate principles of fairness? iv) Should the state intervene in the institution of the family?	7

Nabadwip Vidyasagar College
 Syllabus Modularization 2019-20
 Dept. of Political Science
 Semester-II (Honours), CC-3

Politics in India POL-H-CC-T-3	No. of Lecture	Teacher
Unit 1. Approaches to the Study of Indian Politics – Marxist and Liberal- Indian Political Culture- Various Interpretations.	7	Debashis Das
Unit2. The Indian Party System – Main Features- Major National Political Parties – Major Regional Political Parties- From the Congress System to Multi-Party Coalitions.	8	Samir Mitra
Unit 3. Identity Politics and Social Cleavages in India- Role of Caste, Class and Religion in politics.	4	Debashis Das
Unit 4. Electoral Politics in India: The Election Commission- Electoral Reforms in India – Voting Behaviour in India- Its major determinants- Defection Politics in India – Crime and Politics in India.	9	Samir Mitra
Unit 5. Nation Building in India – Major Challenges - Regionalism in India- Main Components- Regionalism versus Nationalism Debate- Major Regional movements in India – Gorkhaland and Bodoland movement.	7	Debashis Das

Nabadwip Vidyasagar College
 Syllabus Modularization 2019-20
 Dept. of Political Science
 Semester-II (Honours), CC-4

Indian Constitution POL-H-CC-T-4	No. of Lecture	Teacher
Unit 1. Framing of the Indian Constitution: Role of the Constituent Assembly, the Preamble and Philosophy of Indian Constitution.	6	Rintu Mohanta
Unit2. Rights and Duties: Fundamental Rights and Duties, Directive Principles of State Policy.	7	Subrata Das
Unit 3. Federalism and Decentralization in India: Nature of Indian Federalism: Union-State Relations – Nature and Evolving Trends of Federalism in India, 5th and 6th Schedules, Panchayati Raj and Municipalities.	9	Subrata Das
Unit 4. Union Executive: President and Vice President. Prime Minister and Council of Ministers, Relationship between President and Prime Minister	7	Somenath Pal
Unit 5. Union Legislature: Rajya Sabha and Lok Sabha: Composition and Functions, Speaker.	7	Anita Roy
Unit 6: The Judiciary: Supreme Court and High Courts – Composition and Functions, Judicial Activism & Public Interest Litigation (PIL).	7	Rintu Mohanta

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- II, Political Science (GE)
POL-G-GE-T-2(A): Human Rights, Gender and Environment
SESSION 2019-2020

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Social Inequality : Caste, Gender, Ethnicity and Class as distinct categories and their interconnection. Globalisation and its impact on workers, peasants, dalits, adivasis and women.	RINTU MOHANTA (RM)	7
Unit 2: Human Rights : Human Rights: Various Meanings, UN Declarations and Covenants Human Rights and Citizenship Rights, Human Rights and the Indian Constitution	SUBRATA DAS (SD)	6
Unit 2: Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission. Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers. Consumer Rights: The Consumer Protection Act and grievance Redressal mechanisms, Human Rights Movement in India.	SOMNATH PAL (SP)	7
Unit 3: Unit 3: Gender: Analysing Structures of Patriarchy, Gender, Culture and History, Economic Development and Women, The issue of Women’s Political Participation and Representation in India Laws, Institutions and Women’s Rights in India, Women’s Movements in India.	SOMNATH PAL (SP)	8
Unit 4: Environment: Environmental and Sustainable Development UN Environment Programme: Rio, Johannesburg and after; Issues of Industrial Pollution, Global Warming and threats to Bio – diversity Environment Policy in India, Environmental Movement in India.	SAMIR MITRA (SM)	9

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- II, Political Science (PASS)
SESSION – 2019 -2020
POL-G-CC-T-2: Indian Government and Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of Indian Politics and Nature of the State in India: Liberal, Marxist and Gandhian	DEBASHIS DAS (DD)	8
Unit 2: Indian Constitution: Basic Features, Debates on Fundamental Rights and Directive Principles of State Policy	SAMIR MITRA (SM)	8
Unit 3: Union Executive: President and Vice-President – Election, power and position. Prime Minister – Power and position; Council of Ministers; Relationship of President and Prime Minister,	RINTU MOHANTA (RM)	10
Unit 4: Union Legislature: Rajya Sabha and Lok Sabha: Composition and functions; Speaker. The Judiciary: Supreme Court and High Courts – Compositions and functions	SUBRATA DAS (SD)	10
Unit 5: Religion and Politics: debates on secularism and communalism	SOMNATH PAL (SP)	4
Unit 6: Power Structure in India: Role of Caste, class and patriarchy Unit 7: Social Movements: Workers, Peasants, Environmental and Women’s Movement	ANITA ROY (AR)	8

Nabadwip Vidyasagar College
 Syllabus Modularization 2019-20
 Dept. of Political Science
 Semester-III (Honours), CC-5

Indian Political Thought (Ancient and Medieval) POL-H-CC-T-5	No. of Lecture	Teacher
Unit 1: Ancient Indian Political ideas: overview, Ideas on Brahmanic and Shramanic traditions.	5	Debashis Das
Unit 2: Shantiparva with special reference to Rajdharma.	4	Samir Mitra
Unit 3: Buddhist political thought: Kingship and the relations between politics and Ethics.	5	Somenath Pal
Unit 4: Kautilya's Political Thought: Saptanga Theory of State – Mandala Theory and Diplomacy.	5	Rintu Mohanta
Unit5: Medieval Political Thought in India: A broad outline- Zia Barani: Good Sultan and Ideal Polity. Principle of Syncretism.	6	Subrata Das
Unit6: Abul Fazl: Governance and Administration, Kabir: Syncretism.	5	Anita Roy

Nabadwip Vidyasagar College
Syllabus Modularization 2019-20
Dept. of Political Science
Semester-III (Honours), CC-6

Indian Political Thought (Modern) POL-H-CC-T-6	No. of Lecture	Teacher
Unit 1: Rammohan Roy– Views on rule of law, Rights, freedom of thought and social justice.	5	Rintu Mohanta
Unit 2: Vivekananda: Views on Cultural nationalism, Society and Education.	5	Rintu Mohanta
Unit 3: Syed Ahmed Khan and Iqbal: views on colonialism and nationalism.	5	Anita Roy
Unit4: Rabindranath Tagore: Critique of Nationalism and his views on Internationalism.	6	Subrata Das
Unit 5: M.N.Roy: Views on National and Colonial Questions and Radical Humanism.	5	Samir Mitra
Unit 6: B.R. Ambedkar : Views on social justice and Constitutionalism.	5	Debashis Das
Unit 7: Pandita Ramabai : Her views on Gender & Social Justice.	5	Debashis Das
Unit 8: Pt. Nehru: Views on Socialism	3	Debashis Das
Unit 9: Ram Manohar Lohia : Views on Socialism.	4	Somenath Pal

Nabadwip Vidyasagar College
 Syllabus Modularization 2019-20
 Dept. of Political Science
 Semester-III (Honours), CC-7

Understanding International Relations: Theories and Concepts POL-H-CC-T-7	No. of Lecture	Teacher
Unit 1: International Relations: outline of its evolution as academic discipline – What is International Relations Theory?	4	Debashis Das
Unit 2: The Great Debates in the discipline of International Relations: First, Second and Third.	4	Samir Mitra
Unit 3: Mainstream International Relations Theories: (a) Classical Realism and Neo-Realism (b) Liberalism and Neo-Liberalism (c) Marxian - Dependency & World Systems theory (d) Feminist Approach (e) Eurocentricism and Perspectives from the Global South.	8	Rintu Mohanta
Unit 4: National Power- Definition, Elements and Limitation – Balance of Power- Devices of maintaining Balance of Power- Collective Security.	5	Somenath Pal
Unit 5: Foreign Policy- Objectives – Instruments of foreign policy- Diplomacy, Propaganda and Foreign Aid.	5	Anita Roy

Nabadwip Vidyasagar College
Syllabus Modularization 2019-20

Dept. of Political Science

POL-H-SEC-T-1(A)

Legislative Practices and Procedures POL-H-SEC-T-1(A)	No. of Lecture	Name of the Teacher
Unit 1: Powers and functions of people's representative at different tiers of governance: Members of Parliament, State Legislative Assemblies - functionaries of rural and urban local governance.	8	Subrata Das
Unit 2: Legislative Process - How a Bill becomes a Law, Role of the Standing Committee in reviewing a Bill, Legislative Consultations, amendments to a Bill, the framing of Rules and Regulations.	7	Subrata Das
Unit 3: Legislative Committees: Types and role – Types of committees, Role of committees in reviewing government finances, policy, programmes, and legislation.	9	Subrata Das
Unit 4 : Budget Document : Overview of Budget Process, Role of Parliament in reviewing the Union Budget, Railway Budget, Examination of Demands for Grants of Ministries, Working of Ministries.	8	Somenath Pal
Unit 5: Media monitoring and communication: Types of media and their significance for legislators. Basics of communication in print and electronic media.	7	Somenath Pal

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- III, Political Science (GE)
POL-GE-T-1(A): Nationalism in India
SESSION 2019-2020

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern interpretations	DEBABHIS DAS (DD)	6
Unit 2: Colonial Rule in India and its impact: On agriculture, land relations, industry and administration system.	RINTU MOHANTA (RM)	6
Unit 3: Reform and Resistance: a. The Revolt of 1857 b. Major social and religious movements c. Education and the rise of the new middle class in India.	SAMIR MITRA (SM)	7
Unit 4: Nationalist Politics and Expansion of its Social Base: a. Phases of the Nationalist Movement: Birth of INC & Liberal constitutionalist phase , Swadeshi and the Radicals, Formation of the Muslim League b. Gandhi and mass mobilization: Non-cooperation, Civil Disobedience, and Quit India Movements c. Socialist alternatives: Congress socialists, Communists.	SOMNATH PAL (SP)	8
Unit 5: Social Movements - The Women's Question: participation in the national movement and its impact - The Caste Question: anti-Brahmanical Politics - Peasant, Tribal, and Workers movements in Colonial India	SUBRATA DAS (SD)	8
Unit6: Partition and Independence: Communalism in Indian Politics – The Two-Nation Theory, Negotiations over Partition	ANITA ROY (AR)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- III, Political Science (PASS)
SESSION 2019 -2020
POL-G-CC-T-3: Comparative Government and Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: The Importance and Scope of Comparative Government -Distinction between Comparative Politics and Comparative Government – Development of Comparative Politics	ANITA ROY (AR)	7
Unit 2: Theories of Political Systems: Easton, Almond and Powell.	SAMIR MITRA (SM)	8
Unit 3: Typology of Political Systems: Unitary and Federal, Parliamentary and Presidential: UK & USA, Federal and Unitary: Canada & China	RINTU MOHANTA (RM)	10
Unit 4: Electoral Systems: First past the post, proportional representation, mixed systems.	SOMNATH PAL (SP)	10
Unit 5: Parties Systems: One-party, two-party and multi-party systems	SUBRATA DAS (SD)	8
Unit 6: Contemporary Debates on the nature of State: From State Centric security to human centric security & the changing nature of nation-state in the context of globalization	DEBABHIS DAS (DD)	8

Semester-IV (Honours), CC-8

Public Administration (Theories & Concepts) POL-H-CC-T-8	No. of Lecture	Teacher
Unit 1: Public Administration: Definition, Nature and Scope; Difference between Private and Public Administration; Evolution of the Discipline of Public Administration.	7	Rintu Mohanta
Unit 2: Classical Theories of Administration: Classical Theory, (Fayol, Urwick and Gulick) Scientific Management Theory, (F.W.Taylor) Bureaucratic Theory, (Max Weber).	9	Samir Mitra
Unit 3: Neo-Classical Theories of Administration: Elton Mayo and Human Relations Theory; Decision-making with special reference to H.Simon,	7	Somenath Pal
Unit 4: Contemporary Theories of Administration: Ecological Approach of Fred Riggs; Innovation and Entrepreneurship of Peter Drucker.	6	Anita Roy
Unit 5: Public Policy: Concept and Relevance – Approaches to the Study of Public Policy; Public Policy Formulation, Implementation and Evaluation.	7	Subrata Das
Unit 6: Major Approaches in Public Administration: New Public Administration, New Public Management, New Public Service Approach and Good Governance.	8	Debashis Das

Dept. of Political Science
Semester-IV (Honours), CC-9

Public Policy and Indian Administration POL-H-CC-T-9	No. of Lecture	Teacher
Unit 1: Evolution of Indian Administration – Ancient-Medieval and Modern period: brief historical overview -Continuity and change in Indian administration.	6	Rintu Mohangta
Unit 2: Civil Service in India (Bureaucracy): Recruitment & training- Role of UPSC and SPSC- Minister - Civil Servant Relationship - Generalists and Specialists Debate.	7	Debashis Das
Unit 3: Social Welfare Policies in India: Concept and Approaches of Social Welfare – Social Welfare Policies – a) Education: Right to Education, b) Health: National Health Mission, c) Food: Right to Food Security and d) Employment: MNREGA.	8	Anita Roy
Unit 4: Citizen and Administration: Concept of Accountability- Major forms of administrative accountability- Legislative- Executive & Judicial- Citizen’s Charter- Right to Information Act, 2005, E-Governance.	8	Somenath Pal
Unit 5: Financial Administration and Budget: Concept and Significance of Budget – Budget Cycles in India- Various Approaches and Types of Budget - Public Accounts Committee, Estimates Committee – role of CAG.	7	Samir Mitra

Nabadwip Vidyasagar College
Syllabus Modularization 2019-20
Dept. of Political Science
Semester-IV (Honours), CC-10

Global Politics & Issues since 1945 POL-H-CC-T-10	No. of Lecture	Teacher
Unit 1: Contemporary Global Issues I: Proliferation of Nuclear Weapons- Arms race, arms control and Disarmament Policy: PTBT, NPT and CTBT; Ecological Issues – Historical Overview of International Environmental Agreements – Climate Change- Global Commons Debate.	7	Debashis Das
Unit 2: Contemporary Global Issues II: Understanding Globalization and Its alternative Perspectives – Debates on Sovereignty and Territoriality – Cultural and Technological Dimensions of Globalization; Political Economy of International Relations: New International Economic Order- North-South Dialogue- South-South Cooperation- World Bank- IMF- WTO- TNCs- Global trade & Finance- Neo-Colonialism and Dependency.	8	Rintu Mohanta
Unit 3: Contemporary Global Issues III: Terrorism & International System: Conceptual Framework – Challenges to Global Security – Post 9/11 Developments - Counter Terrorist Strategies and War on Terror; Human Rights: The politics of human rights promotion – UN and Human Rights- Human Security- Migration.	8	Samir Mitra
Unit 4: Cold War and its evolution: Different Phases- Collapse of USSR and End of Cold War- Emergence of Third World: NAM; Pan Africanism. Post-Cold War Developments: overview. West Asia and the Palestine question.	6	Anita Roy
Unit 5: Europe in transition: European Union, Brexit (overview).	3	Somenath Pal
Unit 6: Major regional organizations: ASEAN, OPEC, SAFTA, SAARC and BRICS.	5	Subrata Das

Nabadwip Vidyasagar College
Syllabus Modularization 2019-20

Dept. of Political Science

POL-H-SEC-T-2(A)

Public Opinion and Survey Research POL-H-SEC-T-2(A)	No. of Lectur e	Name of the Teacher
Unit 1: Definition and characteristics of public opinion, conceptions and characteristics, debates about its role in a democratic political system, uses for opinion poll.	7	Debashis Das
Unit 2: Measuring Public Opinion: What is sampling? Why do we need to sample? Sample design, Methods and Types of Sampling- Non-Random Sampling (Quota, Purposive and Snowball sampling) – Random Sampling (Simple and Stratified) , Sampling error and non-response.	9	Samir Mitra
Unit 3: Interviewing: Interview techniques pitfalls, different types of and forms of interview	5	Rintu Mohanta
Unit4: Questionnaire: Question wording; fairness and clarity Unit	4	Somenath Pal
5: Quantitative Data Analysis: Introduction to quantitative data analysis, Basic concepts: correlation research, causation and prediction, descriptive and inferential Statistics.	7	Anita Roy
Unit 6: Prediction in polling research: possibilities and pitfalls, Politics of Interpreting Polls.	6	Subrata Das

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester-IV, Political Science (GE)
POL-G-GE-T-2(A): Human Rights, Gender and Environment
SESSION 2019-2020

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Social Inequality : Caste, Gender, Ethnicity and Class as distinct categories and their interconnection. Globalisation and its impact on workers, peasants, dalits, adivasis and women.	RINTU MOHANTA (RM)	7
Unit 2: Human Rights : Human Rights: Various Meanings, UN Declarations and Covenants Human Rights and Citizenship Rights, Human Rights and the Indian Constitution	SUBRATA DAS (SD)	6
Unit 2: Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission. Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers. Consumer Rights: The Consumer Protection Act and grievance Redressal mechanisms, Human Rights Movement in India.	SOMNATH PAL (SP)	7
Unit 3: Unit 3: Gender: Analysing Structures of Patriarchy, Gender, Culture and History, Economic Development and Women, The issue of Women's Political Participation and Representation in India Laws, Institutions and Women's Rights in India, Women's Movements in India.	SOMNATH PAL (SP)	8
Unit 4: Environment: Environmental and Sustainable Development UN Environment Programme: Rio, Johannesburg and after; Issues of Industrial Pollution, Global Warming and threats to Bio – diversity Environment Policy in India, Environmental Movement in India.	SAMIR MITRA (SM)	9

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- IV, Political Science (PASS)
SESSION 2019-2020
POL-G-CC-T-4: Introduction to International Relations

TOPIC	Name of the Teacher	No of Classes
Unit 1: Foundation of International Relations as an academic discipline	DEBABHIS DAS (DD)	6
Unit 2: Major approaches to the study of International Relations: (a) Liberal and Neo-Liberal (Robert O. Keohane and Joseph Nye); (b) Realism (Hans Morgenthau) and Neo-Realism (Kenneth Waltz)	SAMIR MITRA (SM)	8
Unit 2: Major approaches to the study of International Relations: (c) Structural Approaches: World Systems Approach (Immanuel Wallerstein) and Dependency School (Andre Gunder Frank) , (d) Feminist Perspective (J. Ann Tickner)	RINTU MOHANTA (RM)	8
Unit 3: Major concepts in International Relations: (a) National Power; (b) Balance of Power; (c) Collective Security, (d) Bipolarity, Unipolarity & Multi-polarity, (g) National Interest, (h) Globalization	SOMNATH PAL (SP)	10
Unit 4: Indian Foreign Policy: Basic Determinants (Historical, Geo-political, Economic, domestic and Strategic) – India’s policy of Non-Alignment - India’s relations with U. S. A, China, Pakistan and Bangladesh.	ANITA ROY (AR)	8
Unit 5: Cold War and Post- Cold War Era – Origins of Cold War- Phases of Cold War – End of Cold War and Collapse of Soviet Union – Post – Cold War Era and Emerging Centers of Power.	SUBRATA DAS (SD)	8

Nabadwip Vidyasagar College
 Syllabus Modularization 2020-2021
 Dept. of Political Science
 Semester-1 (Honours), CC-1

Political Theory: Concepts (CC-1)	No. of Lecture	Teacher
Unit 1: What is Politics? Meaning of Political.	4	Debashis Das
Unit 2: Key concepts I: State; Nation; Sovereignty (evolution); Power and Authority--- types and linkages;	7	Somenath Pal
Unit 3: Key concepts II: Law. Liberty, Equality—Their interrelationships.	9	Samir Mitra
Unit 4: Key concepts III: Rights; Justice (with special reference to Rawls); Freedom.	7	Somenath Pal
Unit 5: Key concepts IV: Democracy (with special reference to David Held); Authoritarianism.	6	Debashis Das
Unit 6: Key concepts V: Citizenship	4	Samir Mitra

Nabadwip Vidyasagar College
 Syllabus Modularization 2020-2021
 Dept. of Political Science
 Semester-1 (Honours), CC-2

Political Theory: Approaches and Debates (CC-2)	No. of Lecture	Teacher
Unit 1: Approaches I: Normative; Legal-Institutional; Empirical-Behavioural---Systems Analysis; Structural - Functionalism.	9	Rintu Mohanta
Unit 2: Approaches II: Liberalism; Social Welfarism; Neo-Liberalism.	7	Anita Roy
Unit 3: Approaches III: Postcolonial; Feminist.	5	Anita Roy
Unit 4: Marxian approach--- Dialectical Materialism and Historical Materialism.	6	Somenath Pal
Unit 5: Key ideas: State (focus on Relative Autonomy); Class and Class Struggle; Surplus Value; Alienation.	5	Somenath Pal
Unit 6: Party--- Democratic Centralism; Lenin-Rosa Luxemburg debate; Revolution--- Lenin and Mao. Hegemony and Civil Society: Gramsci.	6	Rintu Mohanta

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- I, Political Science (GE)
POL-G-GE-T-1(A): Nationalism in India
SESSION – 2020-2021

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern interpretations	DEBABHIS DAS (DD)	6
Unit 2: Colonial Rule in India and its impact: On agriculture, land relations, industry and administration system.	RINTU MOHANTA (RM)	6
Unit 3: Reform and Resistance: a. The Revolt of 1857 b. Major social and religious movements c. Education and the rise of the new middle class in India.	SAMIR MITRA (SM)	7
Unit 4: Nationalist Politics and Expansion of its Social Base: a. Phases of the Nationalist Movement: Birth of INC & Liberal constitutionalist phase , Swadeshi and the Radicals, Formation of the Muslim League b. Gandhi and mass mobilization: Non-cooperation, Civil Disobedience, and Quit India Movements c. Socialist alternatives: Congress socialists, Communists.	SOMNATH PAL (SP)	8
Unit 5: Social Movements - The Women's Question: participation in the national movement and its impact - The Caste Question: anti-Brahmanical Politics - Peasant, Tribal, and Workers movements in Colonial India	SUBRATA DAS (SD)	8
Unit6: Partition and Independence: Communalism in Indian Politics – The Two-Nation Theory, Negotiations over Partition	ANITA ROY (AR)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- I, Political Science (PASS)
POL-G-CC-T-1: Introduction to Political Theory
SESSION 2020-2021

Name of the Teacher	Topic	No of Classes
SAMIR MITRA (SM)	Unit 1: What is Politics – What is Political Theory and what is its relevance?- Approaches to the study of Politics: Normative, Behavioural and Post-behavioural, Marxist and Feminist	7
RINTU MOHANTA (RM)	Unit 2: Theories of the State (a) Origin: Social Contract Theory; (b) Nature: Idealist, Liberal and Neo-liberal theories.	5
ANITA ROY (AR)	Unit 3: Concept of State Sovereignty: Monistic and Pluralistic theorise	4
SUBRATA DAS (SD)	Unit 4: Liberty, Justice, Equality, Rights, State, Civil Society and Law: Meaning and their interrelations	10
DEBASIS DAS (DD)	Unit 5: Democracy: Meaning and typology	4
SOMNATH PAL (SP)	Unit 6: Debates in Political Theory: i) Is democracy compatible with economic growth? ii) On what grounds is censorship justified and what are its limits? iii) Does Protective Discrimination violate principles of fairness? iv) Should the state intervene in the institution of the family?	5

Nabadwip Vidyasagar College
 Syllabus Modularization 2020-2021
 Dept. of Political Science
 Semester-II (Honours), CC-3

Politics in India POL-H-CC-T-3	No. of Lecture	Teacher
Unit 1. Approaches to the Study of Indian Politics – Marxist and Liberal- Indian Political Culture- Various Interpretations.	7	Debashis Das
Unit2. The Indian Party System – Main Features- Major National Political Parties – Major Regional Political Parties- From the Congress System to Multi-Party Coalitions.	8	Samir Mitra
Unit 3. Identity Politics and Social Cleavages in India- Role of Caste, Class and Religion in politics.	4	Debashis Das
Unit 4. Electoral Politics in India: The Election Commission- Electoral Reforms in India – Voting Behaviour in India- Its major determinants- Defection Politics in India – Crime and Politics in India.	9	Samir Mitra
Unit 5. Nation Building in India – Major Challenges - Regionalism in India- Main Components- Regionalism versus Nationalism Debate- Major Regional movements in India – Gorkhaland and Bodoland movement.	7	Debashis Das

Nabadwip Vidyasagar College
 Syllabus Modularization 2020-2021
 Dept. of Political Science
 Semester-II (Honours), CC-4

Indian Constitution POL-H-CC-T-4	No. of Lecture	Teacher
Unit 1. Framing of the Indian Constitution: Role of the Constituent Assembly, the Preamble and Philosophy of Indian Constitution.	6	Rintu Mohanta
Unit2. Rights and Duties: Fundamental Rights and Duties, Directive Principles of State Policy.	7	Subrata Das
Unit 3. Federalism and Decentralization in India: Nature of Indian Federalism: Union-State Relations – Nature and Evolving Trends of Federalism in India, 5th and 6th Schedules, Panchayati Raj and Municipalities.	9	Subrata Das
Unit 4. Union Executive: President and Vice President. Prime Minister and Council of Ministers, Relationship between President and Prime Minister	7	Somenath Pal
Unit 5. Union Legislature: Rajya Sabha and Lok Sabha: Composition and Functions, Speaker.	7	Anita Roy
Unit 6: The Judiciary: Supreme Court and High Courts – Composition and Functions, Judicial Activism & Public Interest Litigation (PIL).	7	Rintu Mohanta

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- II, Political Science (GE)
POL-G-GE-T-2(A): Human Rights, Gender and Environment
SESSION – 2020-2021

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Social Inequality : Caste, Gender, Ethnicity and Class as distinct categories and their interconnection. Globalisation and its impact on workers, peasants, dalits, adivasis and women.	RINTU MOHANTA (RM)	7
Unit 2: Human Rights : Human Rights: Various Meanings, UN Declarations and Covenants Human Rights and Citizenship Rights, Human Rights and the Indian Constitution	SUBRATA DAS (SD)	6
Unit 2: Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission. Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers. Consumer Rights: The Consumer Protection Act and grievance Redressal mechanisms, Human Rights Movement in India.	SOMNATH PAL (SP)	7
Unit 3: Unit 3: Gender: Analysing Structures of Patriarchy, Gender, Culture and History, Economic Development and Women, The issue of Women’s Political Participation and Representation in India Laws, Institutions and Women’s Rights in India, Women’s Movements in India.	SOMNATH PAL (SP)	8
Unit 4: Environment: Environmental and Sustainable Development UN Environment Programme: Rio, Johannesburg and after; Issues of Industrial Pollution, Global Warming and threats to Bio – diversity Environment Policy in India, Environmental Movement in India.	SAMIR MITRA (SM)	9

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- II, Political Science (PASS)
SESSION – 2020-2021
POL-G-CC-T-2: Indian Government and Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of Indian Politics and Nature of the State in India: Liberal, Marxist and Gandhian	DEBASHIS DAS (DD)	8
Unit 2: Indian Constitution: Basic Features, Debates on Fundamental Rights and Directive Principles of State Policy	SAMIR MITRA (SM)	8
Unit 3: Union Executive: President and Vice-President – Election, power and position. Prime Minister – Power and position; Council of Ministers; Relationship of President and Prime Minister,	RINTU MOHANTA (RM)	10
Unit 4: Union Legislature: Rajya Sabha and Lok Sabha: Composition and functions; Speaker. The Judiciary: Supreme Court and High Courts – Compositions and functions	SUBRATA DAS (SD)	10
Unit 5: Religion and Politics: debates on secularism and communalism	SOMNATH PAL (SP)	4
Unit 6: Power Structure in India: Role of Caste, class and patriarchy Unit 7: Social Movements: Workers, Peasants, Environmental and Women’s Movement	ANITA ROY (AR)	8

Nabadwip Vidyasagar College
 Syllabus Modularization 2020-2021
 Dept. of Political Science
 Semester-III (Honours), CC-5

Indian Political Thought (Ancient and Medieval) POL-H-CC-T-5	No. of Lecture	Teacher
Unit 1: Ancient Indian Political ideas: overview, Ideas on Brahmanic and Shramanic traditions.	5	Debashis Das
Unit 2: Shantiparva with special reference to Rajdharma.	4	Samir Mitra
Unit 3: Buddhist political thought: Kingship and the relations between politics and Ethics.	5	Somenath Pal
Unit 4: Kautilya's Political Thought: Saptanga Theory of State – Mandala Theory and Diplomacy.	5	Rintu Mohanta
Unit5: Medieval Political Thought in India: A broad outline- Zia Barani: Good Sultan and Ideal Polity. Principle of Syncretism.	6	Subrata Das
Unit6: Abul Fazl: Governance and Administration, Kabir: Syncretism.	5	Anita Roy

Nabadwip Vidyasagar College
Syllabus Modularization 2020-2021
Dept. of Political Science
Semester-III (Honours), CC-6

Indian Political Thought (Modern) POL-H-CC-T-6	No. of Lecture	Teacher
Unit 1: Rammohan Roy– Views on rule of law, Rights, freedom of thought and social justice.	5	Rintu Mohanta
Unit 2: Vivekananda: Views on Cultural nationalism, Society and Education.	5	Rintu Mohanta
Unit 3: Syed Ahmed Khan and Iqbal: views on colonialism and nationalism.	5	Anita Roy
Unit4: Rabindranath Tagore: Critique of Nationalism and his views on Internationalism.	6	Subrata Das
Unit 5: M.N.Roy: Views on National and Colonial Questions and Radical Humanism.	5	Samir Mitra
Unit 6: B.R. Ambedkar : Views on social justice and Constitutionalism.	5	Debashis Das
Unit 7: Pandita Ramabai : Her views on Gender & Social Justice.	5	Debashis Das
Unit 8: Pt. Nehru: Views on Socialism	3	Debashis Das
Unit 9: Ram Manohar Lohia : Views on Socialism.	4	Somenath Pal

Nabadwip Vidyasagar College
 Syllabus Modularization 2020-2021
 Dept. of Political Science
 Semester-III (Honours), CC-7

Understanding International Relations: Theories and Concepts POL-H-CC-T-7	No. of Lecture	Teacher
Unit 1: International Relations: outline of its evolution as academic discipline – What is International Relations Theory?	4	Debashis Das
Unit 2: The Great Debates in the discipline of International Relations: First, Second and Third.	4	Samir Mitra
Unit 3: Mainstream International Relations Theories: (a) Classical Realism and Neo-Realism (b) Liberalism and Neo-Liberalism (c) Marxian - Dependency & World Systems theory (d) Feminist Approach (e) Eurocentricism and Perspectives from the Global South.	8	Rintu Mohanta
Unit 4: National Power- Definition, Elements and Limitation – Balance of Power- Devices of maintaining Balance of Power- Collective Security.	5	Somenath Pal
Unit 5: Foreign Policy- Objectives – Instruments of foreign policy- Diplomacy, Propaganda and Foreign Aid.	5	Anita Roy

Nabadwip Vidyasagar College
Syllabus Modularization 2020-2021

Dept. of Political Science

POL-H-SEC-T-1(A)

Legislative Practices and Procedures POL-H-SEC-T-1(A)	No. of Lecture	Name of the Teacher
Unit 1: Powers and functions of people's representative at different tiers of governance: Members of Parliament, State Legislative Assemblies - functionaries of rural and urban local governance.	8	Subrata Das
Unit 2: Legislative Process - How a Bill becomes a Law, Role of the Standing Committee in reviewing a Bill, Legislative Consultations, amendments to a Bill, the framing of Rules and Regulations.	7	Subrata Das
Unit 3: Legislative Committees: Types and role – Types of committees, Role of committees in reviewing government finances, policy, programmes, and legislation.	9	Subrata Das
Unit 4 : Budget Document : Overview of Budget Process, Role of Parliament in reviewing the Union Budget, Railway Budget, Examination of Demands for Grants of Ministries, Working of Ministries.	8	Somenath Pal
Unit 5: Media monitoring and communication: Types of media and their significance for legislators. Basics of communication in print and electronic media.	7	Somenath Pal

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester-III, Political Science (GE)
POL-G-GE-T-1(A): Nationalism in India
SESSION 2020-2021

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern interpretations	DEBABHIS DAS (DD)	6
Unit 2: Colonial Rule in India and its impact: On agriculture, land relations, industry and administration system.	RINTU MOHANTA (RM)	6
Unit 3: Reform and Resistance: a. The Revolt of 1857 b. Major social and religious movements c. Education and the rise of the new middle class in India.	SAMIR MITRA (SM)	7
Unit 4: Nationalist Politics and Expansion of its Social Base: a. Phases of the Nationalist Movement: Birth of INC & Liberal constitutionalist phase , Swadeshi and the Radicals, Formation of the Muslim League b. Gandhi and mass mobilization: Non-cooperation, Civil Disobedience, and Quit India Movements c. Socialist alternatives: Congress socialists, Communists.	SOMNATH PAL (SP)	8
Unit 5: Social Movements - The Women's Question: participation in the national movement and its impact - The Caste Question: anti-Brahmanical Politics - Peasant, Tribal, and Workers movements in Colonial India	SUBRATA DAS (SD)	8
Unit6: Partition and Independence: Communalism in Indian Politics – The Two-Nation Theory, Negotiations over Partition	ANITA ROY (AR)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- III, Political Science (PASS)
SESSION 2020 - 2021
POL-G-CC-T-3: Comparative Government and Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: The Importance and Scope of Comparative Government -Distinction between Comparative Politics and Comparative Government – Development of Comparative Politics	ANITA ROY (AR)	7
Unit 2: Theories of Political Systems: Easton, Almond and Powell.	SAMIR MITRA (SM)	8
Unit 3: Typology of Political Systems: Unitary and Federal, Parliamentary and Presidential: UK & USA, Federal and Unitary: Canada & China	RINTU MOHANTA (RM)	10
Unit 4: Electoral Systems: First past the post, proportional representation, mixed systems.	SOMNATH PAL (SP)	10
Unit 5: Parties Systems: One-party, two-party and multi-party systems	SUBRATA DAS (SD)	8
Unit 6: Contemporary Debates on the nature of State: From State Centric security to human centric security & the changing nature of nation-state in the context of globalization	DEBABHIS DAS (DD)	8

Nabadwip Vidyasagar College
Syllabus Modularization 2020-2021
Dept. of Political Science
Semester-IV (Honours), CC-8

Public Administration (Theories & Concepts) POL-H-CC-T-8	No. of Lecture	Teacher
Unit 1: Public Administration: Definition, Nature and Scope; Difference between Private and Public Administration; Evolution of the Discipline of Public Administration.	7	Rintu Mohanta
Unit 2: Classical Theories of Administration: Classical Theory, (Fayol, Urwick and Gulick) Scientific Management Theory, (F.W. Taylor) Bureaucratic Theory, (Max Weber).	9	Samir Mitra
Unit 3: Neo-Classical Theories of Administration: Elton Mayo and Human Relations Theory; Decision-making with special reference to H.Simon,	7	Somenath Pal
Unit 4: Contemporary Theories of Administration: Ecological Approach of Fred Riggs; Innovation and Entrepreneurship of Peter Drucker.	6	Anita Roy
Unit 5: Public Policy: Concept and Relevance – Approaches to the Study of Public Policy; Public Policy Formulation, Implementation and Evaluation.	7	Subrata Das
Unit 6: Major Approaches in Public Administration: New Public Administration, New Public Management, New Public Service Approach and Good Governance.	8	Debashis Das

Nabadwip Vidyasagar College
Syllabus Modularization 2020-2021
Dept. of Political Science
Semester-IV (Honours), CC-9

Public Policy and Indian Administration POL-H-CC-T-9	No. of Lecture	Teacher
Unit 1: Evolution of Indian Administration – Ancient-Medieval and Modern period: brief historical overview -Continuity and change in Indian administration.	6	Rintu Mohangta
Unit 2: Civil Service in India (Bureaucracy): Recruitment & training- Role of UPSC and SPSC- Minister - Civil Servant Relationship - Generalists and Specialists Debate.	7	Debashis Das
Unit 3: Social Welfare Policies in India: Concept and Approaches of Social Welfare – Social Welfare Policies – a) Education: Right to Education, b) Health: National Health Mission, c) Food: Right to Food Security and d) Employment: MNREGA.	8	Anita Roy
Unit 4: Citizen and Administration: Concept of Accountability- Major forms of administrative accountability- Legislative- Executive & Judicial- Citizen’s Charter- Right to Information Act, 2005, E-Governance.	8	Somenath Pal
Unit 5: Financial Administration and Budget: Concept and Significance of Budget – Budget Cycles in India- Various Approaches and Types of Budget - Public Accounts Committee, Estimates Committee – role of CAG.	7	Samir Mitra

Nabadwip Vidyasagar College
Syllabus Modularization 2020-2021
Dept. of Political Science
Semester-IV (Honours), CC-10

Global Politics & Issues since 1945 POL-H-CC-T-10	No. of Lecture	Teacher
Unit 1: Contemporary Global Issues I: Proliferation of Nuclear Weapons- Arms race, arms control and Disarmament Policy: PTBT, NPT and CTBT; Ecological Issues – Historical Overview of International Environmental Agreements – Climate Change- Global Commons Debate.	7	Debashis Das
Unit 2: Contemporary Global Issues II: Understanding Globalization and Its alternative Perspectives – Debates on Sovereignty and Territoriality – Cultural and Technological Dimensions of Globalization; Political Economy of International Relations: New International Economic Order- North-South Dialogue- South-South Cooperation- World Bank- IMF- WTO- TNCs- Global trade & Finance- Neo-Colonialism and Dependency.	8	Rintu Mohanta
Unit 3: Contemporary Global Issues III: Terrorism & International System: Conceptual Framework – Challenges to Global Security – Post 9/11 Developments - Counter Terrorist Strategies and War on Terror; Human Rights: The politics of human rights promotion – UN and Human Rights- Human Security- Migration.	8	Samir Mitra
Unit 4: Cold War and its evolution: Different Phases- Collapse of USSR and End of Cold War- Emergence of Third World: NAM; Pan Africanism. Post-Cold War Developments: overview. West Asia and the Palestine question.	6	Anita Roy
Unit 5: Europe in transition: European Union, Brexit (overview).	3	Somenath Pal

Unit 6: Major regional organizations: ASEAN, OPEC, SAFTA, SAARC and BRICS.	5	Subrata Das
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Nabadwip Vidyasagar College
Syllabus Modularization 2020-2021
Dept. of Political Science
POL-H-SEC-T-2(A)

Public Opinion and Survey Research POL-H-SEC-T-2(A)	No. of Lectur e	Name of the Teacher
Unit 1: Definition and characteristics of public opinion, conceptions and characteristics, debates about its role in a democratic political system, uses for opinion poll.	7	Debashis Das
Unit 2: Measuring Public Opinion: What is sampling? Why do we need to sample? Sample design, Methods and Types of Sampling- Non-Random Sampling (Quota, Purposive and Snowball sampling) – Random Sampling (Simple and Stratified) , Sampling error and non-response.	9	Samir Mitra
Unit 3: Interviewing: Interview techniques pitfalls, different types of and forms of interview	5	Rintu Mohanta
Unit4: Questionnaire: Question wording; fairness and clarity Unit	4	Somenath Pal
5: Quantitative Data Analysis: Introduction to quantitative data analysis, Basic concepts: correlation research, causation and prediction, descriptive and inferential Statistics.	7	Anita Roy
Unit 6: Prediction in polling research: possibilities and pitfalls, Politics of Interpreting Polls.	6	Subrata Das

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (GE)
POL-GE-T-2(A): Human Rights, Gender and Environment
SESSION 2020-2021

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Social Inequality : Caste, Gender, Ethnicity and Class as distinct categories and their interconnection. Globalisation and its impact on workers, peasants, dalits, adivasis and women.	RINTU MOHANTA (RM)	7
Unit 2: Human Rights : Human Rights: Various Meanings, UN Declarations and Covenants Human Rights and Citizenship Rights, Human Rights and the Indian Constitution	SUBRATA DAS (SD)	6
Unit 2: Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission. Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers. Consumer Rights: The Consumer Protection Act and grievance Redressal mechanisms, Human Rights Movement in India.	SOMNATH PAL (SP)	7
Unit 3: Unit 3: Gender: Analysing Structures of Patriarchy, Gender, Culture and History, Economic Development and Women, The issue of Women’s Political Participation and Representation in India Laws, Institutions and Women’s Rights in India, Women’s Movements in India.	SOMNATH PAL (SP)	8
Unit 4: Environment: Environmental and Sustainable Development UN Environment Programme: Rio, Johannesburg and after; Issues of Industrial Pollution, Global Warming and threats to Bio – diversity Environment Policy in India, Environmental Movement in India.	SAMIR MITRA (SM)	9

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- IV, Political Science (PASS)
SESSION 2020 -2021
POL-G-CC-T-4: Introduction to International Relations

TOPIC	Name of the Teacher	No of Classes
Unit 1: Foundation of International Relations as an academic discipline	DEBABHIS DAS (DD)	6
Unit 2: Major approaches to the study of International Relations: (a) Liberal and Neo-Liberal (Robert O. Keohane and Joseph Nye); (b) Realism (Hans Morgenthau) and Neo-Realism (Kenneth Waltz)	SAMIR MITRA (SM)	8
Unit 2: Major approaches to the study of International Relations: (c) Structural Approaches: World Systems Approach (Immanuel Wallerstein) and Dependency School (Andre Gunder Frank) , (d) Feminist Perspective (J. Ann Tickner)	RINTU MOHANTA (RM)	8
Unit 3: Major concepts in International Relations: (a) National Power; (b) Balance of Power; (c) Collective Security, (d) Bipolarity, Unipolarity & Multi-polarity, (g) National Interest, (h) Globalization	SOMNATH PAL (SP)	10
Unit 4: Indian Foreign Policy: Basic Determinants (Historical, Geo-political, Economic, domestic and Strategic) – India’s policy of Non-Alignment - India’s relations with U. S. A, China, Pakistan and Bangladesh.	ANITA ROY (AR)	8
Unit 5: Cold War and Post- Cold War Era – Origins of Cold War- Phases of Cold War – End of Cold War and Collapse of Soviet Union – Post – Cold War Era and Emerging Centers of Power.	SUBRATA DAS (SD)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (HONS)
SESSION -2020-2021
PAPER CC- 11Western Political Thought (Ancient & Medieval)

TOPIC	Name of the Teacher	No of Classes
Unit 1: Background of Western Political Thought: A Brief Outline with special reference to Stoics and Sophists of ancient Greece	DEBABHIS DAS (DD)	6
Unit 2: Plato – Philosophy and Politics- Theory of Forms, Justice, Philosopher King/Queen, Communism- Women and Guardianship- Critique of Democracy - Censorship.	SAMIR MITRA (SM)	8
Unit 2: Plato - Communism- Women and Guardianship- Critique of Democracy - Censorship.	RINTU MOHANTA (RM)	5
Unit 3: Aristotle – Theory of State – Classification of Governments- Man as a Zoon Politikon- JusticeCitizenship	SUBRATA DAS (SD)	8
Unit 4: Medieval Theological Thought: Basic Features, Conflict between Church and State- Contribution of St. Augustine, St. Thomas Aquinas and Marsiglio of Padua	ANITA ROY (AR)	8
Unit 5: Machiavelli: Virtue & Vice – Morality and Statecraft – Religion- Republicanism	SOMNATH PAL (SP)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (HONS)
SESSION 2020-2021
PAPER- POL-H-CC-T-12: Western Political Thought (Modern)

TOPIC	Name of the Teacher	No of Classes
Unit 1: Thomas Hobbes – Materialism, Human Nature & Sovereignty- John Locke – Natural Rights and Property	SUBRATA DAS (SD)	7
Unit 1: JJ Rousseau – Concept of General Will, Local or Direct Democracy, Origin of Inequality.	SAMIR MITRA (SM)	8
Unit 2: Immanuel Kant –Enlightenment and Moral Freedom - Hegel – Dialectics, Civil Society and State.	ANITA ROY (AR)	8
Unit 3: J.S. Mill- Liberty, Suffrage, Subjection of Women, right of minorities, utility principles.	SOMNATH PAL (SP)	8
Unit 4: Mary Wollstonecraft: Women and Paternalism- Critique on Rousseau’s idea on education- legal rights.	RINTU MOHANTA (RM)	7
Unit 5: Alexandra Kollontai: Winged and Wingless Eros, Proletarian women, Socialization of housework, disagreement with Lenin.	DEBASHIS DAS (DD)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (HONS)
SESSION 2020-2021
PAPER- POL-H-DSE-T-1(B): Public Policy in India

TOPIC	Name of the Teacher	No of Classes
Unit 1: Public Policy: Meaning, Scope and Importance – The emergence of Policy Sciences.	DEBASHIS DAS (DD)	7
Unit 2: Models of Policy Decision-Making.	SAMIR MITRA (SM)	8
Unit 3: Policy making in India - Nehruvian Vision- – Pre and Post Liberalization period in India – Determinants of Public Policy in India.	ANITA ROY (AR)	8
Unit 4: Major Public Policies in India: a) Public Health; b) Education and	SOMNATH PAL (SP)	8
Unit 4: Major Public Policies in India: c) Environment.	SUBRATA DAS (SD)	7
Unit5: Constraints and Challenges to Public Policy implementation in India: Economic, Political and Socio-Cultural	RINTU MOHANTA (RM)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (HONS)
SESSION 2020-21

PAPER-POL-H-DSE-T-2(A): Development Process and Social Movements in Contemporary India

TOPIC	Name of the Teacher	No of Classes
Unit 1: Development Process in India since Independence: State and planning – Liberalization and reforms.	DEBASHIS DAS (DD)	7
Unit 2: Industrial Development Strategy and its Impact on the Social Structure : Mixed economy, privatization,	SAMIR MITRA (SM)	5
Unit 2: Industrial Development Strategy and its Impact on the Social Structure : the impact on organized and unorganized labour - Emergence of the new Indian middle class.	ANITA ROY (AR)	6
Unit 3: Agrarian Development Strategy and its Impact on the Social Structure: Land Reforms, Green Revolution, Agrarian crisis since the 1990s and its impact on farmers	SOMNATH PAL (SP)	8
Unit 4: Social Movements in India: Tribal, Peasant, Dalit and Women's movements	SUBRATA DAS (SD)	7
Unit4: - Maoist challenge - Civil rights movements in India.	RINTU MOHANTA (RM)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (PASS)
POL-G-GE-T-1(A): Nationalism in India
SESSION 2020-2021

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern interpretations	DEBABHIS DAS (DD)	6
Unit 2: Colonial Rule in India and its impact: On agriculture, land relations, industry and administration system.	RINTU MOHANTA (RM)	6
Unit 3: Reform and Resistance: a. The Revolt of 1857 b. Major social and religious movements c. Education and the rise of the new middle class in India.	SAMIR MITRA (SM)	7
Unit 4: Nationalist Politics and Expansion of its Social Base: a. Phases of the Nationalist Movement: Birth of INC & Liberal constitutionalist phase , Swadeshi and the Radicals, Formation of the Muslim League b. Gandhi and mass mobilization: Non-cooperation, Civil Disobedience, and Quit India Movements c. Socialist alternatives: Congress socialists, Communists.	SOMNATH PAL (SP)	8
Unit 5: Social Movements - The Women's Question: participation in the national movement and its impact - The Caste Question: anti-Brahmanical Politics - Peasant, Tribal, and Workers movements in Colonial India	SUBRATA DAS (SD)	8
Unit6: Partition and Independence: Communalism in Indian Politics – The Two-Nation Theory, Negotiations over Partition	ANITA ROY (AR)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (PASS)
POL-G-SEC-T-3: Democratic Awareness with Legal Literacy.
SESSION 2020-2021

TOPIC	Name of the Teacher	No of Classes
Unit 1: Constitution – fundamental rights, fundamental duties, other constitutional rights and their manner of enforcement and the expansion of certain rights under Article 21 of the Constitution.	DEBABHIS DAS (DD)	6
Unit 2: Laws relating to criminal jurisdiction – Provision relating to filing of an FIR, arrest, bail, search seizure- Understanding the question of evidence procedure in Cr.P.C. and related laws - dowry, sexual harassment and violence against women – laws relating to consumer rights – Juvenile Justice- Prevention of atrocities on Scheduled Castes and Scheduled Tribes.	SAMIR MITRA (SM)	8
Unit 3: Anti-terrorist laws: Implication for security and human rights. Laws relating to cyber crimes	RINTU MOHANTA (RM)	5
Unit 4: : System of courts/ tribunals and their jurisdiction in India – criminal and civil courts, writ jurisdiction, specialized courts such as juvenile courts, Mahila courts and tribunals- Alternate dispute such as Lokadalats, non-formal mechanisms	SOMNATH PAL (SP)	8
Unit 5: Critical Understanding of the Functioning of the Legal System – Legal Service Authorities Act and Right to Legal aid, ADR system – Concepts like Burden of Proof, Presumption of Innocence, Principles of Natural Justice – Fair Comment under Contempt Law.	ANITA ROY (AR)	8
Unit 6: Human Rights - emerging trends; Role of legal aid agencies, Human Rights Commissions, NGOs and Civil liberties groups- Role of Police and Executive in criminal law administration	SUBRATA DAS (SD)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (PASS)
POL-G-DSE-T-1(B): Public Policy in India
SESSION – 2020-2021

TOPIC	Name of the Teacher	No of Classes
Unit 1: Public Policy: Meaning, Scope and Importance – The emergence of Policy Sciences	DEBABHIS DAS (DD)	6
Unit 2: Models of Policy Decision-Making	SAMIR MITRA (SM)	8
Unit 3: Policy making in India - Nehruvian Vision- – Pre and Post Liberalization period in India – Determinants of Public Policy in India	RINTU MOHANTA (RM)	5
Unit 4: Major Public Policies in India: a) Public Health; b) Education	SOMNATH PAL (SP)	8
Unit 5: Constraints and Challenges to Public Policy implementation in India: Economic, Political and Socio-Cultural	ANITA ROY (AR)	8
Unit4: Unit 4: Major Public Policies in India - c) Environment	SUBRATA DAS (SD)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (HONS)
SESSION - 2020-2021
PAPER - POL-H-CC-T-13: Introducing Political Sociology

TOPIC	Name of the Teacher	No of Classes
Unit 1: Nature, scope and emergence of Political Sociology – Sociology of politics and political sociology-Theoretical Approaches to the study of Political Sociology.	DEBABHIS DAS (DD)	6
Unit 2: Social Stratification and Politics: Caste, class and elite.	SAMIR MITRA (SM)	8
Unit 3: Power, Influence, and Authority	RINTU MOHANTA (RM)	5
Unit 4: Political Culture: Meaning, nature and types	SUBRATA DAS (SD)	8
Unit 5: Political Socialization: Meaning and agencies	ANITA ROY (AR)	8
Unit 6: Political Development and Political Modernization.	SOMNATH PAL (SP)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (HONS)
SESSION 2020-2021
PAPER - POL-H-CC-T-14: Comparative Government & Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: The Nature and Scope of Comparative Government - Distinction between Comparative Politics and Comparative Government- Going beyond Euro centrism.	ANITA ROY (AR)	6
Unit 2: Major approaches to the study of comparative politics ---Institutional approach (dominant schools: Systems approach and Structural Functional approach)	SUBRATA DAS (SD)	7
Unit 2: Major approaches to the study of comparative politics - New Institutionalism, Political Economy--- origin and key features.	RINTU MOHANTA (RM)	8
Unit 3: Colonialism and Decolonization: Meaning, context, forms – anti-colonial struggles and process of decolonization	ANITA ROY (AR)	8
Unit 4: Socialism: Meaning, growth and Development.	DEBABISH DAS (DD)	7
Unit 5: Comparative study of the Constitutional Developments and Political Economy of: Britain, Brazil, Nigeria and China	SOMNATH PAL (SP)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (HONS)
SESSION 2020-2021

PAPER - POL-H-DSE-T-3(B): India's Foreign Policy in a Globalizing World

TOPIC	Name of the Teacher	No of Classes
Unit 1: India's Foreign Policy: From a Postcolonial State to an Aspiring Global Power	ANITA ROY (AR)	6
Unit 2: India's Relations with the USA and USSR/Russia	SUBRATA DAS (SD)	6
Unit 3: India's Engagements with China	RINTU MOHANTA (RM)	5
Unit 4: India in South Asia: Debating Regional Strategies	ANITA ROY (AR)	7
Unit 5: India's Negotiating Style and Strategies: Energy and Security Regimes.	DEBABISH DAS (DD)	7
Unit 5: India's Negotiating Style and Strategies: Trade, Environment,	SOMNATH PAL (SP)	6

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (HONS)
SESSION 2020 -2021
POL-H-DSE-T- 4 (A): Dilemmas in Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: The Moral Economy of Violence Unit 4: Ecology and Political Responsibility	SOMNATH PAL (SP)	6
Unit2: The Politics of Exclusion Unit 5: Capabilities and the Politics of Empowerment	RINTU MOHANTA (RM)	5
Unit 3: Debates on Human Rights	SUBRATA DAS (SD)	5
Unit 6: Global Justice and Cosmopolitanism	SAMIR MITRA (SM)	8
Unit 7: Feminism and the Politics of Interpretation	ANITA ROY (AR)	8
Unit 8: Legitimacy of Humanitarian Intervention	DEBABHIS DAS (DD)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (PASS)
SESSION - 2020-2021
POL-G-GE-T-2(A): Human Rights, Gender and Environment

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Social Inequality : Caste, Gender, Ethnicity and Class as distinct categories and their interconnection. Globalisation and its impact on workers, peasants, dalits, adivasis and women.	RINTU MOHANTA (RM)	7
Unit 2: Human Rights : Human Rights: Various Meanings, UN Declarations and Covenants Human Rights and Citizenship Rights, Human Rights and the Indian Constitution	SUBRATA DAS (SD)	6
Unit 2: Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission. Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers. Consumer Rights: The Consumer Protection Act and grievance Redressal mechanisms, Human Rights Movement in India.	SOMNATH PAL (SP)	7
Unit 3: Unit 3: Gender: Analysing Structures of Patriarchy, Gender, Culture and History, Economic Development and Women, The issue of Women’s Political Participation and Representation in India Laws, Institutions and Women’s Rights in India, Women’s Movements in India.	SOMNATH PAL (SP)	8
Unit 4: Environment: Environmental and Sustainable Development UN Environment Programme: Rio, Johannesburg and after; Issues of Industrial Pollution, Global Warming and threats to Bio – diversity Environment Policy in India, Environmental Movement in India.	SAMIR MITRA (SM)	9

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (PASS)
SESSION – 2020-2021
POL-G-SEC-T-4: Peace and Conflict Resolution

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Conflict and Conflict Management	RINTU MOHANTA (RM)	4
Unit 1: Conflict Resolution and Conflict Transformation- Peace Building.	SUBRATA DAS (SD)	4
Unit 2: Dimensions of Conflict: Ideological, Economic (Resource Sharing)	SOMNATH PAL (SP)	3
Unit 2: Socio-Cultural (Ethnicity, Religion and Gender).	ANITA ROY (AR)	4
Unit 3: Nature of Local, Sub-national and International Conflicts	SAMIR MITRA (SM)	5
Unit 4: Techniques of Conflict Resolution: Negotiations – Trust building ; Mediation: Skill Building and Active Listening; Track- I, II & and Multi Track Diplomacy; Gandhian Methods	DEBASHIS DAS (DD)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (PASS)
SESSION 2020 - 2021

POL-G-DSE-T- 2(B): India's Foreign Policy in a Globalizing World

TOPIC	Name of the Teacher	No of Classes
Unit 1: India's Foreign Policy: From a Postcolonial State to an Aspiring Global Power	DEBABHIS DAS (DD)	4
Unit 2: India's Relations with the USA and USSR/Russia	SUBRATA DAS (SD)	4
Unit 3: Unit 3: India's Engagements with China	SAMIR MITRA (SM)	4
Unit 4: India in South Asia: Debating Regional Strategies	SOMNATH PAL (SP)	5
Unit 5: India's Negotiating Style and Strategies: Trade, Environment	RINTU MOHANTA (RM)	6
Unit 5: Unit 5: India's Negotiating Style and Strategies: Energy and Security Regimes.	ANITA ROY (AR)	6

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 Dept. of Political Science
 Semester-1 (Honours), CC-1

Political Theory: Concepts (CC-1)	No. of Lecture	Teacher
Unit 1: What is Politics? Meaning of Political.	4	Debashis Das
Unit 2: Key concepts I: State; Nation; Sovereignty (evolution); Power and Authority--- types and linkages;	7	Somenath Pal
Unit 3: Key concepts II: Law. Liberty, Equality—Their interrelationships.	9	Samir Mitra
Unit 4: Key concepts III: Rights; Justice (with special reference to Rawls); Freedom.	7	Somenath Pal
Unit 5: Key concepts IV: Democracy (with special reference to David Held); Authoritarianism.	6	Debashis Das
Unit 6: Key concepts V: Citizenship	4	Samir Mitra

Nabadwip Vidyasagar College
 Syllabus Modularization 2021-2022
 Dept. of Political Science
 Semester-1 (Honours), CC-2

Political Theory: Approaches and Debates (CC-2)	No. of Lecture	Teacher
Unit 1: Approaches I: Normative; Legal-Institutional; Empirical-Behavioural---Systems Analysis; Structural - Functionalism.	9	Rintu Mohanta
Unit 2: Approaches II: Liberalism; Social Welfarism; Neo-Liberalism.	7	Anita Roy
Unit 3: Approaches III: Postcolonial; Feminist.	5	Anita Roy
Unit 4: Marxian approach--- Dialectical Materialism and Historical Materialism.	6	Somenath Pal
Unit 5: Key ideas: State (focus on Relative Autonomy); Class and Class Struggle; Surplus Value; Alienation.	5	Somenath Pal
Unit 6: Party--- Democratic Centralism; Lenin-Rosa Luxemburg debate; Revolution--- Lenin and Mao. Hegemony and Civil Society: Gramsci.	6	Rintu Mohanta

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- I, Political Science (HONS)
POL-G-GE-T-1(A): Nationalism in India
SESSION 2021-2022

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern interpretations	DEBABHIS DAS (DD)	6
Unit 2: Colonial Rule in India and its impact: On agriculture, land relations, industry and administration system.	RINTU MOHANTA (RM)	6
Unit 3: Reform and Resistance: a. The Revolt of 1857 b. Major social and religious movements c. Education and the rise of the new middle class in India.	SAMIR MITRA (SM)	7
Unit 4: Nationalist Politics and Expansion of its Social Base: a. Phases of the Nationalist Movement: Birth of INC & Liberal constitutionalist phase , Swadeshi and the Radicals, Formation of the Muslim League b. Gandhi and mass mobilization: Non-cooperation, Civil Disobedience, and Quit India Movements c. Socialist alternatives: Congress socialists, Communists.	SOMNATH PAL (SP)	8
Unit 5: Social Movements - The Women's Question: participation in the national movement and its impact - The Caste Question: anti-Brahmanical Politics - Peasant, Tribal, and Workers movements in Colonial India	SUBRATA DAS (SD)	8
Unit6: Partition and Independence: Communalism in Indian Politics – The Two-Nation Theory, Negotiations over Partition	ANITA ROY (AR)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- I, Political Science (PASS)
SESSION – 2021-2022

POL-G-CC-T-1: Introduction to Political Theory

Name of the Teacher	Topic	No of Classes
SAMIR MITRA (SM)	Unit 1: What is Politics – What is Political Theory and what is its relevance?- Approaches to the study of Politics: Normative, Behavioural and Post-behavioural, Marxist and Feminist	7
RINTU MOHANTA (RM)	Unit 2: Theories of the State (a) Origin: Social Contract Theory; (b) Nature: Idealist, Liberal and Neo-liberal theories.	5
ANITA ROY (AR)	Unit 3: Concept of State Sovereignty: Monistic and Pluralistic theorise	6
SUBRATA DAS (SD)	Unit 4: Liberty, Justice, Equality, Rights, State, Civil Society and Law: Meaning and their interrelations	10
DEBASIS DAS (DD)	Unit 5: Democracy: Meaning and typology	4
SOMNATH PAL (SP)	Unit 6: Debates in Political Theory: i) Is democracy compatible with economic growth? ii) On what grounds is censorship justified and what are its limits? iii) Does Protective Discrimination violate principles of fairness? iv) Should the state intervene in the institution of the family?	7

Nabadwip Vidyasagar College
 Syllabus Modularization 2021-2022
 Dept. of Political Science
 Semester-II (Honours), CC-3

Politics in India POL-H-CC-T-3	No. of Lecture	Teacher
Unit 1. Approaches to the Study of Indian Politics – Marxist and Liberal- Indian Political Culture- Various Interpretations.	7	Debashis Das
Unit2. The Indian Party System – Main Features- Major National Political Parties – Major Regional Political Parties- From the Congress System to Multi-Party Coalitions.	8	Samir Mitra
Unit 3. Identity Politics and Social Cleavages in India- Role of Caste, Class and Religion in politics.	4	Debashis Das
Unit 4. Electoral Politics in India: The Election Commission- Electoral Reforms in India – Voting Behaviour in India- Its major determinants- Defection Politics in India – Crime and Politics in India.	9	Samir Mitra
Unit 5. Nation Building in India – Major Challenges - Regionalism in India- Main Components- Regionalism versus Nationalism Debate- Major Regional movements in India – Gorkhaland and Bodoland movement.	7	Debashis Das

Nabadwip Vidyasagar College
 Syllabus Modularization 2021-2022
 Dept. of Political Science
 Semester-II (Honours), CC-4

Indian Constitution POL-H-CC-T-4	No. of Lectur e	Teacher
Unit 1. Framing of the Indian Constitution: Role of the Constituent Assembly, the Preamble and Philosophy of Indian Constitution.	6	Rintu Mohanta
Unit2. Rights and Duties: Fundamental Rights and Duties, Directive Principles of State Policy.	7	Subrata Das
Unit 3. Federalism and Decentralization in India: Nature of Indian Federalism: Union-State Relations – Nature and Evolving Trends of Federalism in India, 5th and 6th Schedules, Panchayati Raj and Municipalities.	9	Subrata Das
Unit 4. Union Executive: President and Vice President. Prime Minister and Council of Ministers, Relationship between President and Prime Minister	7	Somenath Pal
Unit 5. Union Legislature: Rajya Sabha and Lok Sabha: Composition and Functions, Speaker.	7	Anita Roy
Unit 6: The Judiciary: Supreme Court and High Courts – Composition and Functions, Judicial Activism & Public Interest Litigation (PIL).	7	Rintu Mohanta

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- II, Political Science (HONS)
POL-G-GE-T-2(A): Human Rights, Gender and Environment
SESSION 2021-2022

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Social Inequality : Caste, Gender, Ethnicity and Class as distinct categories and their interconnection. Globalisation and its impact on workers, peasants, dalits, adivasis and women.	RINTU MOHANTA (RM)	7
Unit 2: Human Rights : Human Rights: Various Meanings, UN Declarations and Covenants Human Rights and Citizenship Rights, Human Rights and the Indian Constitution	SUBRATA DAS (SD)	6
Unit 2: Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission. Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers. Consumer Rights: The Consumer Protection Act and grievance Redressal mechanisms, Human Rights Movement in India.	SOMNATH PAL (SP)	7
Unit 3: Unit 3: Gender: Analysing Structures of Patriarchy, Gender, Culture and History, Economic Development and Women, The issue of Women’s Political Participation and Representation in India Laws, Institutions and Women’s Rights in India, Women’s Movements in India.	SOMNATH PAL (SP)	8
Unit 4: Environment: Environmental and Sustainable Development UN Environment Programme: Rio, Johannesburg and after; Issues of Industrial Pollution, Global Warming and threats to Bio – diversity Environment Policy in India, Environmental Movement in India.	SAMIR MITRA (SM)	9

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- II, Political Science (PASS)
SESSION – 2021-2022
POL-G-CC-T-2: Indian Government and Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of Indian Politics and Nature of the State in India: Liberal, Marxist and Gandhian	DEBASHIS DAS (DD)	8
Unit 2: Indian Constitution: Basic Features, Debates on Fundamental Rights and Directive Principles of State Policy	SAMIR MITRA (SM)	8
Unit 3: Union Executive: President and Vice-President – Election, power and position. Prime Minister – Power and position; Council of Ministers; Relationship of President and Prime Minister,	RINTU MOHANTA (RM)	10
Unit 4: Union Legislature: Rajya Sabha and Lok Sabha: Composition and functions; Speaker. The Judiciary: Supreme Court and High Courts – Compositions and functions	SUBRATA DAS (SD)	10
Unit 5: Religion and Politics: debates on secularism and communalism	SOMNATH PAL (SP)	4
Unit 6: Power Structure in India: Role of Caste, class and patriarchy Unit 7: Social Movements: Workers, Peasants, Environmental and Women’s Movement	ANITA ROY (AR)	8

Nabadwip Vidyasagar College
 Syllabus Modularization 2021-2022
 Dept. of Political Science
 Semester-III (Honours), CC-5

Indian Political Thought (Ancient and Medieval) POL-H-CC-T-5	No. of Lecture	Teacher
Unit 1: Ancient Indian Political ideas: overview, Ideas on Brahmanic and Shramanic traditions.	5	Debashis Das
Unit 2: Shantiparva with special reference to Rajdharma.	4	Samir Mitra
Unit 3: Buddhist political thought: Kingship and the relations between politics and Ethics.	5	Somenath Pal
Unit 4: Kautilya's Political Thought: Saptanga Theory of State – Mandala Theory and Diplomacy.	5	Rintu Mohanta
Unit5: Medieval Political Thought in India: A broad outline- Zia Barani: Good Sultan and Ideal Polity. Principle of Syncretism.	6	Subrata Das
Unit6: Abul Fazl: Governance and Administration, Kabir: Syncretism.	5	Anita Roy

Nabadwip Vidyasagar College
 Syllabus Modularization 2021-2022
 Dept. of Political Science
 Semester-III (Honours), CC-6

Indian Political Thought (Modern) POL-H-CC-T-6	No. of Lecture	Teacher
Unit 1: Rammohan Roy– Views on rule of law, Rights, freedom of thought and social justice.	5	Rintu Mohanta
Unit 2: Vivekananda: Views on Cultural nationalism, Society and Education.	5	Rintu Mohanta
Unit 3: Syed Ahmed Khan and Iqbal: views on colonialism and nationalism.	5	Anita Roy
Unit4: Rabindranath Tagore: Critique of Nationalism and his views on Internationalism.	6	Subrata Das
Unit 5: M.N.Roy: Views on National and Colonial Questions and Radical Humanism.	5	Samir Mitra
Unit 6: B.R. Ambedkar : Views on social justice and Constitutionalism.	5	Debashis Das
Unit 7: Pandita Ramabai : Her views on Gender & Social Justice.	5	Debashis Das
Unit 8: Pt. Nehru: Views on Socialism	3	Debashis Das
Unit 9: Ram Manohar Lohia : Views on Socialism.	4	Somenath Pal

Nabadwip Vidyasagar College
 Syllabus Modularization 2021-2022
 Dept. of Political Science
 Semester-III (Honours), CC-7

Understanding International Relations: Theories and Concepts POL-H-CC-T-7	No. of Lecture	Teacher
Unit 1: International Relations: outline of its evolution as academic discipline – What is International Relations Theory?	4	Debashis Das
Unit 2: The Great Debates in the discipline of International Relations: First, Second and Third.	4	Samir Mitra
Unit 3: Mainstream International Relations Theories: (a) Classical Realism and Neo-Realism (b) Liberalism and Neo-Liberalism (c) Marxian - Dependency & World Systems theory (d) Feminist Approach (e) Eurocentricism and Perspectives from the Global South.	8	Rintu Mohanta
Unit 4: National Power- Definition, Elements and Limitation – Balance of Power- Devices of maintaining Balance of Power- Collective Security.	5	Somenath Pal
Unit 5: Foreign Policy- Objectives – Instruments of foreign policy- Diplomacy, Propaganda and Foreign Aid.	5	Anita Roy

Nabadwip Vidyasagar College
Syllabus Modularization 2021-2022
Dept. of Political Science
POL-H-SEC-T-1(A)
SEMESTER - III

Legislative Practices and Procedures POL-H-SEC-T-1(A)	No. of Lecture	Name of the Teacher
Unit 1: Powers and functions of people's representative at different tiers of governance: Members of Parliament, State Legislative Assemblies - functionaries of rural and urban local governance.	8	Subrata Das
Unit 2: Legislative Process - How a Bill becomes a Law, Role of the Standing Committee in reviewing a Bill, Legislative Consultations, amendments to a Bill, the framing of Rules and Regulations.	7	Subrata Das
Unit 3: Legislative Committees: Types and role – Types of committees, Role of committees in reviewing government finances, policy, programmes, and legislation.	9	Subrata Das
Unit 4 : Budget Document : Overview of Budget Process, Role of Parliament in reviewing the Union Budget, Railway Budget, Examination of Demands for Grants of Ministries, Working of Ministries.	8	Somenath Pal
Unit 5: Media monitoring and communication: Types of media and their significance for legislators. Basics of communication in print and electronic media.	7	Somenath Pal

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- III, Political Science (HONS)
POL-G-GE-T-1(A): Nationalism in India
SESSION 2021-2022

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern interpretations	DEBABHIS DAS (DD)	6
Unit 2: Colonial Rule in India and its impact: On agriculture, land relations, industry and administration system.	RINTU MOHANTA (RM)	6
Unit 3: Reform and Resistance: a. The Revolt of 1857 b. Major social and religious movements c. Education and the rise of the new middle class in India.	SAMIR MITRA (SM)	7
Unit 4: Nationalist Politics and Expansion of its Social Base: a. Phases of the Nationalist Movement: Birth of INC & Liberal constitutionalist phase , Swadeshi and the Radicals, Formation of the Muslim League b. Gandhi and mass mobilization: Non-cooperation, Civil Disobedience, and Quit India Movements c. Socialist alternatives: Congress socialists, Communists.	SOMNATH PAL (SP)	8
Unit 5: Social Movements - The Women's Question: participation in the national movement and its impact - The Caste Question: anti-Brahmanical Politics - Peasant, Tribal, and Workers movements in Colonial India	SUBRATA DAS (SD)	8
Unit6: Partition and Independence: Communalism in Indian Politics – The Two-Nation Theory, Negotiations over Partition	ANITA ROY (AR)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- III, Political Science (PASS)
SESSION 2021-2022
POL-G-CC-T-3: Comparative Government and Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: The Importance and Scope of Comparative Government -Distinction between Comparative Politics and Comparative Government – Development of Comparative Politics	ANITA ROY (AR)	7
Unit 2: Theories of Political Systems: Easton, Almond and Powell.	SAMIR MITRA (SM)	8
Unit 3: Typology of Political Systems: Unitary and Federal, Parliamentary and Presidential: UK & USA, Federal and Unitary: Canada & China	RINTU MOHANTA (RM)	10
Unit 4: Electoral Systems: First past the post, proportional representation, mixed systems.	SOMNATH PAL (SP)	10
Unit 5: Parties Systems: One-party, two-party and multi-party systems	SUBRATA DAS (SD)	8
Unit 6: Contemporary Debates on the nature of State: From State Centric security to human centric security & the changing nature of nation-state in the context of globalization	DEBABHIS DAS (DD)	8

Dept. of Political Science
Semester-IV (Honours), CC-8

Public Administration (Theories & Concepts) POL-H-CC-T-8	No. of Lecture	Teacher
Unit 1: Public Administration: Definition, Nature and Scope; Difference between Private and Public Administration; Evolution of the Discipline of Public Administration.	7	Rintu Mohanta
Unit 2: Classical Theories of Administration: Classical Theory, (Fayol, Urwick and Gulick) Scientific Management Theory,(F.W.Taylor) Bureaucratic Theory, (Max Weber).	9	Samir Mitra
Unit 3: Neo-Classical Theories of Administration: Elton Mayo and Human Relations Theory; Decision-making with special reference to H.Simon,	7	Somenath Pal
Unit 4: Contemporary Theories of Administration: Ecological Approach of Fred Riggs; Innovation and Entrepreneurship of Peter Drucker.	6	Anita Roy
Unit 5: Public Policy: Concept and Relevance – Approaches to the Study of Public Policy; Public Policy Formulation, Implementation and Evaluation.	7	Subrata Das
Unit 6: Major Approaches in Public Administration: New Public Administration, New Public Management, New Public Service Approach and Good Governance.	8	Debashis Das

Dept. of Political Science
Semester-IV (Honours), CC-9

Public Policy and Indian Administration POL-H-CC-T-9	No. of Lecture	Teacher
Unit 1: Evolution of Indian Administration – Ancient-Medieval and Modern period: brief historical overview -Continuity and change in Indian administration.	6	Rintu Mohangta
Unit 2: Civil Service in India (Bureaucracy): Recruitment & training- Role of UPSC and SPSC- Minister - Civil Servant Relationship - Generalists and Specialists Debate.	7	Debashis Das
Unit 3: Social Welfare Policies in India: Concept and Approaches of Social Welfare – Social Welfare Policies – a) Education: Right to Education, b) Health: National Health Mission, c) Food: Right to Food Security and d) Employment: MNREGA.	8	Anita Roy
Unit 4: Citizen and Administration: Concept of Accountability- Major forms of administrative accountability- Legislative- Executive & Judicial- Citizen’s Charter- Right to Information Act, 2005, E-Governance.	8	Somenath Pal
Unit 5: Financial Administration and Budget: Concept and Significance of Budget – Budget Cycles in India- Various Approaches and Types of Budget - Public Accounts Committee, Estimates Committee – role of CAG.	7	Samir Mitra

Nabadwip Vidyasagar College
Syllabus Modularization 2021-2022
Dept. of Political Science
Semester-IV (Honours), CC-10

Global Politics & Issues since 1945 POL-H-CC-T-10	No. of Lecture	Teacher
Unit 1: Contemporary Global Issues I: Proliferation of Nuclear Weapons- Arms race, arms control and Disarmament Policy: PTBT, NPT and CTBT; Ecological Issues – Historical Overview of International Environmental Agreements – Climate Change- Global Commons Debate.	7	Debashis Das
Unit 2: Contemporary Global Issues II: Understanding Globalization and Its alternative Perspectives – Debates on Sovereignty and Territoriality – Cultural and Technological Dimensions of Globalization; Political Economy of International Relations: New International Economic Order- North-South Dialogue- South-South Cooperation- World Bank- IMF- WTO- TNCs- Global trade & Finance- Neo-Colonialism and Dependency.	8	Rintu Mohanta
Unit 3: Contemporary Global Issues III: Terrorism & International System: Conceptual Framework – Challenges to Global Security – Post 9/11 Developments - Counter Terrorist Strategies and War on Terror; Human Rights: The politics of human rights promotion – UN and Human Rights- Human Security- Migration.	8	Samir Mitra
Unit 4: Cold War and its evolution: Different Phases- Collapse of USSR and End of Cold War- Emergence of Third World: NAM; Pan Africanism. Post-Cold War Developments: overview. West Asia and the Palestine question.	6	Anita Roy
Unit 5: Europe in transition: European Union, Brexit (overview).	3	Somenath Pal
Unit 6: Major regional organizations: ASEAN, OPEC, SAFTA, SAARC and BRICS.	5	Subrata Das

Nabadwip Vidyasagar College
Syllabus Modularization 2021-2022

Dept. of Political Science

POL-H-SEC-T-2(A)

Public Opinion and Survey Research POL-H-SEC-T-2(A)	No. of Lectur e	Name of the Teacher
Unit 1: Definition and characteristics of public opinion, conceptions and characteristics, debates about its role in a democratic political system, uses for opinion poll.	7	Debashis Das
Unit 2: Measuring Public Opinion: What is sampling? Why do we need to sample? Sample design, Methods and Types of Sampling- Non-Random Sampling (Quota, Purposive and Snowball sampling) – Random Sampling (Simple and Stratified) , Sampling error and non-response.	9	Samir Mitra
Unit 3: Interviewing: Interview techniques pitfalls, different types of and forms of interview	5	Rintu Mohanta
Unit4: Questionnaire: Question wording; fairness and clarity Unit	4	Somenath Pal
5: Quantitative Data Analysis: Introduction to quantitative data analysis, Basic concepts: correlation research, causation and prediction, descriptive and inferential Statistics.	7	Anita Roy
Unit 6: Prediction in polling research: possibilities and pitfalls, Politics of Interpreting Polls.	6	Subrata Das

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester-IV, Political Science (HONS)GE
POL-G-GE-T-2(A): Human Rights, Gender and Environment
SESSION 2021-2022

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Social Inequality : Caste, Gender, Ethnicity and Class as distinct categories and their interconnection. Globalisation and its impact on workers, peasants, dalits, adivasis and women.	RINTU MOHANTA (RM)	7
Unit 2: Human Rights : Human Rights: Various Meanings, UN Declarations and Covenants Human Rights and Citizenship Rights, Human Rights and the Indian Constitution	SUBRATA DAS (SD)	6
Unit 2: Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission. Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers. Consumer Rights: The Consumer Protection Act and grievance Redressal mechanisms, Human Rights Movement in India.	SOMNATH PAL (SP)	7
Unit 3: Unit 3: Gender: Analysing Structures of Patriarchy, Gender, Culture and History, Economic Development and Women, The issue of Women's Political Participation and Representation in India Laws, Institutions and Women's Rights in India, Women's Movements in India.	SOMNATH PAL (SP)	8
Unit 4: Environment: Environmental and Sustainable Development UN Environment Programme: Rio, Johannesburg and after; Issues of Industrial Pollution, Global Warming and threats to Bio – diversity Environment Policy in India, Environmental Movement in India.	SAMIR MITRA (SM)	9

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- IV, Political Science (PASS)
SESSION 2021-2022
POL-G-CC-T-4: Introduction to International Relations

TOPIC	Name of the Teacher	No of Classes
Unit 1: Foundation of International Relations as an academic discipline	DEBABHIS DAS (DD)	6
Unit 2: Major approaches to the study of International Relations: (a) Liberal and Neo-Liberal (Robert O. Keohane and Joseph Nye); (b) Realism (Hans Morgenthau) and Neo-Realism (Kenneth Waltz)	SAMIR MITRA (SM)	8
Unit 2: Major approaches to the study of International Relations: (c) Structural Approaches: World Systems Approach (Immanuel Wallerstein) and Dependency School (Andre Gunder Frank) , (d) Feminist Perspective (J. Ann Tickner)	RINTU MOHANTA (RM)	8
Unit 3: Major concepts in International Relations: (a) National Power; (b) Balance of Power; (c) Collective Security, (d) Bipolarity, Uni-polarity & Multi-polarity, (g) National Interest, (h) Globalization	SOMNATH PAL (SP)	10
Unit 4: Indian Foreign Policy: Basic Determinants (Historical, Geo-political, Economic, domestic and Strategic) – India’s policy of Non-Alignment - India’s relations with U. S. A, China, Pakistan and Bangladesh.	ANITA ROY (AR)	8
Unit 5: Cold War and Post- Cold War Era – Origins of Cold War- Phases of Cold War – End of Cold War and Collapse of Soviet Union – Post – Cold War Era and Emerging Centers of Power.	SUBRATA DAS (SD)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (HONS)
SESSION 2021 -2022
PAPER CC- 11Western Political Thought (Ancient & Medieval)

TOPIC	Name of the Teacher	No of Classes
Unit 1: Background of Western Political Thought: A Brief Outline with special reference to Stoics and Sophists of ancient Greece	DEBABHIS DAS (DD)	6
Unit 2: Plato – Philosophy and Politics- Theory of Forms, Justice, Philosopher King/Queen, Communism- Women and Guardianship- Critique of Democracy - Censorship.	SAMIR MITRA (SM)	8
Unit 2: Plato - Communism- Women and Guardianship- Critique of Democracy - Censorship.	RINTU MOHANTA (RM)	5
Unit 3: Aristotle – Theory of State – Classification of Governments- Man as a Zoon Politikon- JusticeCitizenship	SUBRATA DAS (SD)	8
Unit 4: Medieval Theological Thought: Basic Features, Conflict between Church and State- Contribution of St. Augustine, St. Thomas Aquinas and Marsiglio of Padua	ANITA ROY (AR)	8
Unit 5: Machiavelli: Virtue & Vice – Morality and Statecraft – Religion- Republicanism	SOMNATH PAL (SP)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (HONS)
SESSION 2021-2022
PAPER- POL-H-CC-T-12: Western Political Thought (Modern)

TOPIC	Name of the Teacher	No of Classes
Unit 1: Thomas Hobbes – Materialism, Human Nature & Sovereignty- John Locke – Natural Rights and Property	SUBRATA DAS (SD)	7
Unit 1: JJ Rousseau – Concept of General Will, Local or Direct Democracy, Origin of Inequality.	SAMIR MITRA (SM)	8
Unit 2: Immanuel Kant –Enlightenment and Moral Freedom - Hegel – Dialectics, Civil Society and State.	ANITA ROY (AR)	8
Unit 3: J.S. Mill- Liberty, Suffrage, Subjection of Women, right of minorities, utility principles.	SOMNATH PAL (SP)	8
Unit 4: Mary Wollstonecraft: Women and Paternalism- Critique on Rousseau’s idea on education- legal rights.	RINTU MOHANTA (RM)	7
Unit 5: Alexandra Kollontai: Winged and Wingless Eros, Proletarian women, Socialization of housework, disagreement with Lenin.	DEBASHIS DAS (DD)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (HONS)
SESSION 2021 -2022
PAPER- POL-H-DSE-T-1(B): Public Policy in India

TOPIC	Name of the Teacher	No of Classes
Unit 1: Public Policy: Meaning, Scope and Importance – The emergence of Policy Sciences.	DEBASHIS DAS (DD)	7
Unit 2: Models of Policy Decision-Making.	SAMIR MITRA (SM)	8
Unit 3: Policy making in India - Nehruvian Vision- – Pre and Post Liberalization period in India – Determinants of Public Policy in India.	ANITA ROY (AR)	8
Unit 4: Major Public Policies in India: a) Public Health; b) Education and	SOMNATH PAL (SP)	8
Unit 4: Major Public Policies in India: c) Environment.	SUBRATA DAS (SD)	7
Unit5: Constraints and Challenges to Public Policy implementation in India: Economic, Political and Socio-Cultural	RINTU MOHANTA (RM)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (PASS)
SESSION - 2021-2022
POL-G-GE-T-1(A): Nationalism in India

TOPIC	Name of the Teacher	No of Classes
Unit 1: Approaches to the study of nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern interpretations	DEBABHIS DAS (DD)	6
Unit 2: Colonial Rule in India and its impact: On agriculture, land relations, industry and administration system.	RINTU MOHANTA (RM)	6
Unit 3: Reform and Resistance: a. The Revolt of 1857 b. Major social and religious movements c. Education and the rise of the new middle class in India.	SAMIR MITRA (SM)	7
Unit 4: Nationalist Politics and Expansion of its Social Base: a. Phases of the Nationalist Movement: Birth of INC & Liberal constitutionalist phase , Swadeshi and the Radicals, Formation of the Muslim League b. Gandhi and mass mobilization: Non-cooperation, Civil Disobedience, and Quit India Movements c. Socialist alternatives: Congress socialists, Communists.	SOMNATH PAL (SP)	8
Unit 5: Social Movements - The Women's Question: participation in the national movement and its impact - The Caste Question: anti-Brahmanical Politics - Peasant, Tribal, and Workers movements in Colonial India	SUBRATA DAS (SD)	8
Unit6: Partition and Independence: Communalism in Indian Politics – The Two-Nation Theory, Negotiations over Partition	ANITA ROY (AR)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- V, Political Science (PASS)
SESSION 2021-2022
POL-G-SEC-T-3: Democratic Awareness with Legal Literacy.

TOPIC	Name of the Teacher	No of Classes
Unit 1: Constitution – fundamental rights, fundamental duties, other constitutional rights and their manner of enforcement and the expansion of certain rights under Article 21 of the Constitution.	DEBABHIS DAS (DD)	6
Unit 2: Laws relating to criminal jurisdiction – Provision relating to filing of an FIR, arrest, bail, search seizure- Understanding the question of evidence procedure in Cr.P.C. and related laws - dowry, sexual harassment and violence against women – laws relating to consumer rights – Juvenile Justice- Prevention of atrocities on Scheduled Castes and Scheduled Tribes.	SAMIR MITRA (SM)	8
Uni 3: Anti-terrorist laws: Implication for security and human rights. Laws relating to cyber crimes	RINTU MOHANTA (RM)	5
Unit 4: : System of courts/ tribunals and their jurisdiction in India – criminal and civil courts, writ jurisdiction, specialized courts such as juvenile courts, Mahila courts and tribunals- Alternate dispute such as Lokadalats, non-formal mechanisms	SOMNATH PAL (SP)	8
Unit 5: Critical Understanding of the Functioning of the Legal System – Legal Service Authorities Act and Right to Legal aid, ADR system – Concepts like Burden of Proof, Presumption of Innocence, Principles of Natural Justice – Fair Comment under Contempt Law.	ANITA ROY (AR)	8
Unit 6: Human Rights - emerging trends; Role of legal aid agencies, Human Rights Commissions, NGOs and Civil liberties groups- Role of Police and Executive in criminal law administration	SUBRATA DAS (SD)	8

SESSION 2021-2022
POL-G-DSE-T-1(B): Public Policy in India

TOPIC	Name of the Teacher	No of Classes
Unit 1: Public Policy: Meaning, Scope and Importance – The emergence of Policy Sciences	DEBABHIS DAS (DD)	6
Unit 2: Models of Policy Decision-Making	SAMIR MITRA (SM)	8
Unit 3: Policy making in India - Nehruvian Vision- – Pre and Post Liberalization period in India – Determinants of Public Policy in India	RINTU MOHANTA (RM)	5
Unit 4: Major Public Policies in India: a) Public Health; b) Education	SOMNATH PAL (SP)	8
Unit 5: Constraints and Challenges to Public Policy implementation in India: Economic, Political and Socio-Cultural	ANITA ROY (AR)	8
Unit4: Unit 4: Major Public Policies in India - c) Environment	SUBRATA DAS (SD)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (HONS)
SESSION 2021-2022
PAPER - POL-H-CC-T-13: Introducing Political Sociology

TOPIC	Name of the Teacher	No of Classes
Unit 1: Nature, scope and emergence of Political Sociology – Sociology of politics and political sociology-Theoretical Approaches to the study of Political Sociology.	DEBABHIS DAS (DD)	6
Unit 2: Social Stratification and Politics: Caste, class and elite.	SAMIR MITRA (SM)	8
Unit 3: Power, Influence, and Authority	RINTU MOHANTA (RM)	5
Unit 4: Political Culture: Meaning, nature and types	SUBRATA DAS (SD)	8
Unit 5: Political Socialization: Meaning and agencies	ANITA ROY (AR)	8
Unit 6: Political Development and Political Modernization.	SOMNATH PAL (SP)	4

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (HONS)
SESSION 2021 -2022
PAPER - POL-H-CC-T-14: Comparative Government & Politics

TOPIC	Name of the Teacher	No of Classes
Unit 1: The Nature and Scope of Comparative Government - Distinction between Comparative Politics and Comparative Government- Going beyond Euro centrism.	ANITA ROY (AR)	6
Unit 2: Major approaches to the study of comparative politics ---Institutional approach (dominant schools: Systems approach and Structural Functional approach)	SUBRATA DAS (SD)	7
Unit 2: Major approaches to the study of comparative politics - New Institutionalism, Political Economy--- origin and key features.	RINTU MOHANTA (RM)	8
Unit 3: Colonialism and Decolonization: Meaning, context, forms – anti-colonial struggles and process of decolonization	ANITA ROY (AR)	8
Unit 4: Socialism: Meaning, growth and Development.	DEBABISH DAS (DD)	7
Unit 5: Comparative study of the Constitutional Developments and Political Economy of: Britain, Brazil, Nigeria and China	SOMNATH PAL (SP)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (HONS)
SESSION 2021 -2022

PAPER - POL-H-DSE-T-3(B): India's Foreign Policy in a Globalizing World

TOPIC	Name of the Teacher	No of Classes
Unit 1: India's Foreign Policy: From a Postcolonial State to an Aspiring Global Power	ANITA ROY (AR)	6
Unit 2: India's Relations with the USA and USSR/Russia	SUBRATA DAS (SD)	6
Unit 3: India's Engagements with China	RINTU MOHANTA (RM)	5
Unit 4: India in South Asia: Debating Regional Strategies	ANITA ROY (AR)	7
Unit 5: India's Negotiating Style and Strategies: Energy and Security Regimes.	DEBABISH DAS (DD)	7
Unit 5: India's Negotiating Style and Strategies: Trade, Environment,	SOMNATH PAL (SP)	6

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (PASS)
SESSION 2021-2022
POL-G-GE-T-2(A): Human Rights, Gender and Environment

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Social Inequality : Caste, Gender, Ethnicity and Class as distinct categories and their interconnection. Globalisation and its impact on workers, peasants, dalits, adivasis and women.	RINTU MOHANTA (RM)	7
Unit 2: Human Rights : Human Rights: Various Meanings, UN Declarations and Covenants Human Rights and Citizenship Rights, Human Rights and the Indian Constitution	SUBRATA DAS (SD)	6
Unit 2: Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission. Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers. Consumer Rights: The Consumer Protection Act and grievance Redressal mechanisms, Human Rights Movement in India.	SOMNATH PAL (SP)	7
Unit 3: Unit 3: Gender: Analysing Structures of Patriarchy, Gender, Culture and History, Economic Development and Women, The issue of Women's Political Participation and Representation in India Laws, Institutions and Women's Rights in India, Women's Movements in India.	SOMNATH PAL (SP)	8
Unit 4: Environment: Environmental and Sustainable Development UN Environment Programme: Rio, Johannesburg and after; Issues of Industrial Pollution, Global Warming and threats to Bio – diversity Environment Policy in India, Environmental Movement in India.	SAMIR MITRA (SM)	9

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (PASS)
SESSION 2021-2022
POL-G-SEC-T-4: Peace and Conflict Resolution

TOPIC	Name of the Teacher	No of Classes
Unit 1: Understanding Conflict and Conflict Management	RINTU MOHANTA (RM)	4
Unit 1: Conflict Resolution and Conflict Transformation- Peace Building.	SUBRATA DAS (SD)	4
Unit 2: Dimensions of Conflict: Ideological, Economic (Resource Sharing)	SOMNATH PAL (SP)	3
Unit 2: Socio-Cultural (Ethnicity, Religion and Gender).	ANITA ROY (AR)	4
Unit 3: Nature of Local, Sub-national and International Conflicts	SAMIR MITRA (SM)	5
Unit 4: Techniques of Conflict Resolution: Negotiations – Trust building ; Mediation: Skill Building and Active Listening; Track- I, II & and Multi Track Diplomacy; Gandhian Methods	DEBASHIS DAS (DD)	8

NABADWIP VIDYASAGAR COLLEGE
Syllabus Modularization of Political Science Department
Semester- VI, Political Science (PASS)
SESSION 2021-2022

POL-G-DSE-T- 2(B): India's Foreign Policy in a Globalizing World

TOPIC	Name of the Teacher	No of Classes
Unit 1: India's Foreign Policy: From a Postcolonial State to an Aspiring Global Power	DEBABHIS DAS (DD)	4
Unit 2: India's Relations with the USA and USSR/Russia	SUBRATA DAS (SD)	4
Unit 3: Unit 3: India's Engagements with China	SAMIR MITRA (SM)	4
Unit 4: India in South Asia: Debating Regional Strategies	SOMNATH PAL (SP)	5
Unit 5: India's Negotiating Style and Strategies: Trade, Environment	RINTU MOHANTA (RM)	6
Unit 5: Unit 5: India's Negotiating Style and Strategies: Energy and Security Regimes.	ANITA ROY (AR)	6

(ARTS) 2021-2022 (Mon-Sat)	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEMESTER-I HONOURS		BEN-CC1(1) ECO-CC1-16 SANS-CC1(26) PHIL-CC1(28) HIST-CC1(7) POLS-CC1(22) EDCNCC1(30)	HIST-CC2(7) ENG-CC1(8) POLS-CC2(22) EDCNCC2(30) GEOG-CC1(19)	BENCC2(1) ENG-CC2(8) SANS-CC2(26) PHIL-CC2(28) GEOG-CC2(19) ECO-CC2-16	BEN(GE)-4 ENG(GE)-8 SAN(GE)-26 PHIL(GE)-28 HIST(GE)-7 ECO(GE)-9 POLS(GE)-22 EDCN(GE)-30	AECC (ENVS) 7 (Only Monday & Tuesday)	
SEMESTER-I PROG/GEN			BENG-PCC-1 HIST-PCC-10 SANS-PCC-24 PHIL-PCC-26	ENG-PCC-10 ECON-PCC POLS-PCC-22 EDCN-PCC-30 PHY.ED-24	LCC(ENG) R-1	AECC/MIL (BENG/COM.E) R-1 (Only Monday & Tuesday)	
SEMESTER-IV HONOURS	SEC-2 (ALL) (Monday and Tuesday)	HIST-CC8(10) ECO-CC8 POLS-CC8(23) EDCNCC8(31) GEOG-CC8(19)	BEN-CC8(2) ENG-CC8(9) SANS-CC8(27) PHIL-CC8(29)	BENCC9(2) ENG-CC9(9) SANS-CC9(27) PHIL-CC9(29)	BEN(GE)-2 ENG(GE)-9 SAN(GE)-27 PHIL(GE)-29 HIST(GE)-10 ECO(GE)-11 POLS(GE)-23 EDCN(GE)-31	BENCC10(2) ENG-CC10(9) SANS-CC10(27) PHIL-CC10(29) HIST-CC10(10) ECO-CC10-16 POLS-CC10(23) EDCNCC10(31) GEOG-CC10(19)	HIST-CC9(10) ECO-CC9 POLS-CC9(23) EDCNCC9(31) GEOG-CC9(19)
SEMESTER-IV PROG/GEN	SEC-2 (ALL) (Monday and Tuesday)	BENG-PCC-4 HIST-PCC-8 SANS-PCC-11 PHIL-PCC-29	ENG-PCC 7A ECON-PCC-16 POLS-PCC-31 EDCN-PCC-28 PHY.ED-PCC-32	LCC(BENG) R-7	PHY.ED-PCC 35		
SEMESTER-VI HONOURS		HIST-CC13(9) ECO-CC13 POLS-CC13(24) EDCNCC13(25) GEOG-CC13-36	BEN-CC13(4) ENG-CC13(11) SANS-CC13(25) PHIL-CC13(23)	BENCC14(4) ENG-CC14(11) SANS-CC14(25) PHIL-CC14(23)	HIST-CC14(10) ECO-CC14 POLS-CC14(24) EDN-CC14(25) GEOG-CC14-36	BEN-DSE-3(4) ENG-DSE-3(11) SANS-DSE-3(25) PHIL-DSE-3(26) HIST-DSE-3(9) ECO-DSE-3 POLS-DSE-3(24) EDNDSE-3(28) GEOG-DSE3-36	BEN(DSE-4)-4 ENG(DSE-4)-11 SAN(DSE-4)-25 PHIL(DSE-4)-26 HIST(DSE-4)-9 ECO (DSE-4)-16 POLS(DSE-4)-24 EDCN(DSE-4)-28 GEOG-DSE4-36
SEMESTER-VI GENERAL	SEC-4 (ALL) (Thursday and Friday)	BENG-DSE-2-32 HIST- DSE-2-33 SANS- DSE-2-34 PHIL- DSE-35	ENG- DSE-2 33 ECON- DSE-36 POLS- DSE-2-34 EDCN- DSE-35 PHY.ED-DSE-38	GE (ALL)			

R-1 to 4-Arts Block Ground Floor; R-7 to 11 Arts Block 2nd Floor; R-16 Admin Block 2nd Floor; R-19 Science Block 2nd Floor,
R-22 to 25 Chaitanya Block 1st Floor; R-26 to 29- Chaitanya Block 2nd Floor; R-30 to 35 Chaitanya Block 3rd Floor; R-36 to 38 Admin Block 3rd Floor

***All Remedial/ Tutorial Classes will be conducted on each Saturday.

MON-TUE (SCIENCE) 2021-2022	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEM-I HONOURS		PHY-CC1(P) CHEM-CC1(P) ZOO-CC1(P) BOT-CC1(P) ENVS-CC1(P) COMS-CC1(P)	PHY-CC1(P) CHEM-CC1(P) MATH-CC1 ZOO-CC1(P) BOT-CC1(P) ENVS-CC1(P) COMS-CC1(P)	PHY-CC2 CHEM-CC2 MATH-CC2 ZOO-CC2 BOT-CC2 ENVS-CC2 COMS-CC2	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)	AECC (ENVS) 7	
SEM-I PROG/GEN	MATH-PCC	PHY-PCC (PRAC) ZOO-PCC (PRAC)	PHY-PCC (PRAC) ZOO-PCC (PRAC)	BOT-PCC	CHEM-PCC	AECC/MIL (BENG/COM.E) R-1	
SEM-IV HONOURS	SEC-2 (ALL)	PHY-CC8(P) CHEM-CC8(P) ZOO-CC8(P) BOT-CC8(P) ENVS-CC8(P) COMS-CC8(P)	PHY-CC8(P) CHEM-CC8(P) MATH-CC8 ZOO-CC8(P) BOT-CC8(P) ENVS-CC8(P) COMS-CC8(P)	PHY-CC9 CHEM-CC9 MATH-CC9 ZOO-CC9 BOT-CC9 ENVS-CC9 COMS-CC9	PHY-CC10 CHEM-CC10 MATH-CC10 ZOO-CC10 BOT-CC10 ENVS-CC10 COMS-CC10	PHY(GE)-P CHEM(GE)-P MATH(GE) ZOO(GE)-P BOT(GE)-P	PHY(GE)-P CHEM(GE)-P ZOO(GE)-P BOT(GE)-P
SEM-IV PROG/GEN	SEC-2 (ALL)	PHY-PCC (PRAC) ZOO-PCC (PRAC)	PHY-PCC (PRAC) ZOO-PCC (PRAC)	CHEM-PCC	MATH-PCC	BOT-PCC	
SEM-VI HONOURS		PHY-CC13 CHEM-CC13 MATH-CC13 ZOO-CC13 BOT-CC13 ENVS-CC13 COMS-CC13	PHY-CC14 CHEM-CC14 MATH-CC14 ZOO-CC14 BOT-CC14 ENVS-CC14 COMS-CC14	PHY-DSE-3 (P) CHEM-DSE-3 (P) MATH-DSE-3 ZOO-DSE-3 (P) BOT-DSE-3 (P) ENVS-DSE-3 (P) COMS-DSE-3 (P)	PHY-DSE-3 (P) CHEM-DSE-3 (P) MATH-DSE-4 ZOO-DSE-3 (P) BOT-DSE-3 (P) ENVS-DSE-3 (P) COMS-DSE-3 (P)	PHY-DSE-4 CHEM-DSE-4 ZOO-DSE-4 BOT-DSE-4 ENVS-DSE-4 COMS-DSE-4	
SEM-VI PROG/GEN		CHEM-DSE-2	BOT-DSE-2	PHY-DSE-2 (PRAC) ZOO-DSE-2 (PRAC)	PHY-DSE-2 (PRAC) ZOO-DSE-2 (PRAC)	MATH-DSE-2	

Wed-Thurs (SCIENCE) 2021-2022	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEM-I HONOURS		PHY-CC2(P) CHEM-CC2(P) ZOO-CC2(P) BOT-CC2(P) ENVS-CC2(P) COMS-CC2(P)	PHY-CC2(P) CHEM-CC2(P) MATH-CC2 ZOO-CC2(P) BOT-CC2(P) ENVS-CC2(P) COMS-CC2(P)	PHY-CC1 CHEM-CC1 MATH-CC1 ZOO-CC1 BOT-CC1 ENVS-CC1 COMS-CC1	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)		
SEM-I PROG/GEN		PHY-PCC ZOO-PCC	BOT-PCC (PRAC)	BOT-PCC (PRAC)	CHEM-PCC	MATH-PCC	
SEM-IV HONOURS		PHY-CC9(P) CHEM-CC9(P) ZOO-CC9(P) BOT-CC9(P) ENVS-CC9(P) COMS-CC9(P)	PHY-CC9(P) CHEM-CC9(P) MATH-CC9 ZOO-CC9(P) BOT-CC9(P) ENVS-CC9(P) COMS-CC9(P)	PHY-CC8 CHEM-CC8 MATH-CC8 ZOO-CC8 BOT-CC8 ENVS-CC8 COMS-CC8	PHY-CC10 CHEM-CC10 MATH-CC10 ZOO-CC10 BOT-CC10 ENVS-CC10 COMS-CC10	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)	
SEM-IV PROG/GEN		PHY-PCC ZOO-PCC	BOT-PCC (PRAC)	BOT-PCC (PRAC)	CHEM-PCC	MATH-PCC	
SEM-VI HONOURS		PHY-CC13 CHEM-CC13 MATH-CC13 ZOO-CC13 BOT-CC13 ENVS-CC13 COMS-CC13	PHY-CC14 CHEM-CC14 MATH-CC14 ZOO-CC14 BOT-CC14 ENVS-CC14 COMS-CC14	PHY-DSE-4 (P) CHEM-DSE-4 (P) MATH-DSE-3 ZOO-DSE-4 (P) BOT-DSE-4 (P) ENVS-DSE-4 (P) COMS-DSE-4 (P)	PHY-DSE-4 (P) CHEM-DSE-4 (P) MATH-DSE-4 ZOO-DSE-4 (P) BOT-DSE-4 (P) ENVS-DSE-4 (P) COMS-DSE-4 (P)	PHY-DSE-3 CHEM-DSE-3 ZOO-DSE-3 BOT-DSE-3 ENVS-DSE-3 COMS-DSE-3	
SEM-VI PROG/GEN	SEC-4 (ALL)	CHEM-DSE-2	PHY-DSE-2 ZOO-DSE-2	MATH-DSE-2	BOT-DSE-2 (PRAC)	BOT-DSE-2 (PRAC)	

FRI-SAT (SCIENCE) 2021-2022	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEM-I HONOURS		PHY-CC1 CHEM-CC1 MATH-CC1 ZOO-CC1 BOT-CC1 ENVS-CC1 COMS-CC1	PHY-CC2 CHEM-CC2 MATH-CC2 ZOO-CC2 BOT-CC2 ENVS-CC2 COMS-CC2	PHY(GE)-P CHEM(GE)-P MATH(GE) ZOO(GE)-P BOT(GE)-P	PHY(GE)-P CHEM(GE)-P ZOO(GE)-P BOT(GE)-P		
SEM-I PROG/GEN		BOT-PCC	MATH-PCC	CHEM-PCC (PRAC)	CHEM-PCC (PRAC)	PHY-PCC ZOO-PCC	
SEM-IV HONOURS		PHY-CC10(P) CHEM-CC10(P) ZOO-CC10(P) BOT-CC10(P) ENVS-CC10(P) COMS-CC10(P)	PHY-CC10(P) CHEM-CC10(P) MATH-CC10 ZOO-CC10(P) BOT-CC10(P) ENVS-CC10(P) COMS-CC10(P)	PHY-CC8 CHEM-CC8 MATH-CC8 ZOO-CC8 BOT-CC8 ENVS-CC8 COMS-CC8	PHY-CC9 CHEM-CC9 MATH-CC9 ZOO-CC9 BOT-CC9 ENVS-CC9 COMS-CC9	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)	
SEM-IV PROG/GEN		BOT-PCC	MATH-PCC	CHEM-PCC (PRAC)	CHEM-PCC (PRAC)	PHY-PCC ZOO-PCC	
SEM-VI HONOURS		PHY-CC14 (P) CHEM-CC14 (P) MATH-CC13 ZOO-CC14 (P) BOT-CC14 (P) ENVS-CC14 (P) COMS-CC14 (P)	PHY-CC14 (P) CHEM-CC14 (P) MATH-CC14 ZOO-CC14 (P) BOT-CC14 (P) ENVS-CC14 (P) COMS-CC14 (P)	PHY-CC13 (P) CHEM-CC13 (P) MATH-DSE-3 ZOO-CC13 (P) BOT-CC13 (P) ENVS-CC13 (P) COMS-CC13 (P)	PHY-CC13 (P) CHEM-CC13 (P) MATH-DSE-4 ZOO-CC13 (P) BOT-CC13 (P) ENVS-CC13 (P) COMS-CC13 (P)	PHY-DSE-3 CHEM-DSE-3 ZOO-DSE-3 BOT-DSE-3 ENVS-DSE-3 COMS-DSE-3	PHY-DSE-4 CHEM-DSE-4 ZOO-DSE-4 BOT-DSE-4 ENVS-DSE-4 COMS-DSE-4
SEM-VI PROG/GEN		BOT-DSE-2	PHY-DSE-2 ZOO-DSE-2	MATH-DSE-2	CHEM-DSE-2 (PRAC)	CHEM-DSE-2 (PRAC)	

2020-2021 ONLINE MODE	11:00	12:00	1:00	2:00	3:00
SEMESTER-I HONOURS	All Honours (Monday- Saturday)			All GE (I+III) (Monday & Thursday)	AECC (All) (Monday)
SEMESTER-I PROG/GEN	PCC Phys(Mon), Chem (Tue), Math (Wed), Bot (Thurs), Zoo(Fri)	PCC (Beng, Hist, Sans, Phil) Monday PCC (B.Com.) Tuesday	PCC (Eng, Econ, Pols, Edcn, Ph.Ed.) Monday	LCC (Eng) (Wednesday) (B.A. & B.Com.)	MIL (BENG/COM.E) (Tuesday)
SEMESTER-III HONOURS		All Honours (Monday- Saturday)		All GE (I+III) (Monday & Thursday)	All Honours (Monday- Saturday) SEC (ALL) Wednesday
SEMESTER-III PROG/GEN	PCC (Beng, Hist, Sans, Phil) Friday	PCC Phys(Tue), Chem (Wed), Math (Thurs), Bot (Fri), Zoo(Sat)	LCC (Eng) (Saturday) (B.A. & B.Com.)	PCC (Eng, Econ, Pols, Edcn, Ph.Ed.) Friday PCC (B.Com.) Thursday	SEC (ALL) Wednesday
SEMESTER-V HONOURS	All Honours (Monday- Saturday)		All Honours (Monday- Saturday) + DSE (Gen) (If same Syll.)		
SEMESTER-V GENERAL	DSE (B.Com.) Saturday	SEC (ALL) Tuesday	DSE Phys(Wed), Chem (Thurs), Math (Fri), Bot (Sat), Zoo(Tues)	GE (Monday & Thursday) (Same with SEM-I &III Hons. GE)	DSE Beng (Mon), Econ (Mon) Eng (Tues), Hist (Wed), Sans (Tues), Phil (Fri), Pols (Sat), Edcn (Thurs)

❖ ***Special Class Routine (Online Mode) for the Academic Session 2020-21***
(For the students of B.A., B.Sc. and B.Com. Semester-I, III & V)

Nabadwip Vidyasagar College
Nabadwip, Nadia

** The Schedule is subject to change as per the changing scenario and situation.

MONDAY (SCIENCE) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEM-II HONOURS		PHY-CC3(P) CHEM-CC3(P) ZOO-CC3(P) BOT-CC3(P) ENVS-CC3(P) COMS-CC3(P)	PHY-CC3(P) CHEM-CC3(P) MATH-CC3 ZOO-CC3(P) BOT-CC3(P) ENVS-CC3(P) COMS-CC3(P)	PHY-CC4 CHEM-CC4 MATH-CC4 ZOO-CC4 BOT-CC4 ENVS-CC4 COMS-CC4	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)		MIL (BENG/ COM.E)
SEM-II PROG/GEN	MATH-PCC	AECC ENVS	AECC ENVS	PHY-PCC (PRAC) ZOO-PCC (PRAC)	PHY-PCC (PRAC) ZOO-PCC (PRAC)	BOT-PCC	CHEM-PCC
SEM-IV HONOURS		PHY-CC8(P) CHEM-CC8(P) ZOO-CC8(P) BOT-CC8(P) ENVS-CC8(P)	PHY-CC8(P) CHEM-CC8(P) MATH-CC8 ZOO-CC8(P) BOT-CC8(P) ENVS-CC8(P)	PHY-CC9 CHEM-CC9 MATH-CC9 ZOO-CC9 BOT-CC9 ENVS-CC9	PHY-CC10 CHEM-CC10 MATH-CC10 ZOO-CC10 BOT-CC10 ENVS-CC10	PHY(GE)-P CHEM(GE)-P MATH(GE) ZOO(GE)-P BOT(GE)-P	PHY(GE)-P CHEM(GE)-P ZOO(GE)-P BOT(GE)-P
SEM-IV PROG/GEN		PHY-PCC (PRAC) ZOO-PCC (PRAC)	PHY-PCC (PRAC) ZOO-PCC (PRAC)	CHEM-PCC	MATH-PCC	BOT-PCC	
PART-III HONOURS		PHYS MATH ZOO BOT	PHYS CHEM MATH ZOO BOT ENVS	PHYS CHEM MATH ZOO BOT ENVS	PHYS(PRAC) CHEM(PRAC) ZOO(PRAC) MATH ENVS	PHYS(PRAC) CHEM(PRAC) ZOO(PRAC) ENVS	
PART-III GENERAL				ZOO	CHEM		

10.01.2020
Principal
Nabadwip Vidyasagar College
Nabadwip, Nadia-741302


TUESDAY (SCIENCE) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEM-II HONOURS		PHY-CC3(P) CHEM-CC3(P) ZOO-CC3(P) BOT-CC3(P) ENVS-CC3(P) COMS-CC3(P)	PHY-CC3(P) CHEM-CC3(P) MATH-CC3 ZOO-CC3(P) BOT-CC3(P) ENVS-CC3(P) COMS-CC3(P)	PHY-CC4 CHEM-CC4 MATH-CC4 ZOO-CC4 BOT-CC4 ENVS-CC4 COMS-CC4	PHY(GE)(P) CHEM(GE)(P) MATH(GE) ZOO(GE)(P) BOT(GE)(P)	PHY(GE)(P) CHEM(GE)(P) ZOO(GE)(P) BOT(GE)(P)	
SEM-II PROG/GEN		PHYS-PCC	MATH-PCC	CHEM-PCC	ZOO-PCC	BOT-PCC (PRACTICAL)	BOT-PCC (PRACTICAL)
SEM-IV HONOURS	PHY-SEC CHEM-SEC MATH-SEC ZOO-SEC BOT-SEC ENVS-SEC	PHY-CC8 CHEM-CC8 MATH-CC8 ZOO-CC8 BOT-CC8 ENVS-CC8	PHY-CC9 CHEM-CC9 MATH-CC9 ZOO-CC9 BOT-CC9 ENVS-CC9	PHY-CC10(P) CHEMCC10(P) MATH-CC10 ZOO-CC10(P) BOT-CC10(P) ENVS-CC10(P)	PHY-CC10(P) CHEMCC10(P) ZOO-CC10(P) BOT-CC10(P) ENVS-CC10(P)	PHY(GE)-P CHEM(GE)-P MATH(GE) ZOO(GE)-P BOT(GE)-P	PHY(GE)-P CHEM(GE)-P ZOO(GE)-P BOT(GE)-P
SEM-IV PROG/GEN	PHY-SEC CHEM-SEC MATH-SEC ZOO-SEC BOT-SEC ENVS-SEC	MATH-PCC	PHYS-PCC	BOT-PCC (PRACTICAL)	BOT-PCC (PRACTICAL)	ZOO-PCC	CHEM-PCC
PART-III HONOURS		BOT(PRAC) MATH(PRAC) ZOO ENVS	BOT(PRAC) MATH(PRAC) CHEM MATH ENVS	PHYS CHEM MATH ZOO ENVS	PHYS CHEM MATH ZOO ENVS MATH(BM)	CHEM (PRAC) ZOO (PRAC) MATH BOT ENVS MATH(BM)	CHEM (PRAC) ZOO (PRAC) PHYS ENVS
PART-III GENERAL		CHEM (PRAC)	CHEM (PRAC)	MATH	MATH		

Principal
Nabadeep Vidyaagar College
Nabadeep, Nadia-741130

WEDNESDAY (SCIENCE) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEM-II HONOURS		PHY-CC4(P) CHEM-CC4(P) ZOO-CC4(P) BOT-CC4(P) ENVS-CC4(P) COMS-CC4(P)	PHY-CC4(P) CHEM-CC4(P) MATH-CC4 ZOO-CC4(P) BOT-CC4(P) ENVS-CC4(P) COMS-CC4(P)	PHY-CC3 CHEM-CC3 MATH-CC3 ZOO-CC3 BOTCC3(Smart) ENVS-CC3 COMS-CC3(P)	PHY(GE)(P) CHEM(GE)(P) MATH(GE) ZOO(GE)(P) BOT(GE)(P)	PHY(GE)(P) CHEM(GE)(P) ZOO(GE)(P) BOT(GE)(P)	AECC ENVS
SEM-II PROG/GEN	CHEM-PCC (PRAC)	CHEM-PCC (PRAC)	PHYS-PCC	BOT-PCC	ZOO-PCC MATH- PCC(TUT)	MATH- PCC(TUT)	
SEM-IV HONOURS		PHY-CC8 CHEM-CC8 MATH-CC8 ZOO-CC8 BOT-CC8 ENVS-CC8	PHY-CC9(P) CHEMCC9(P) MATH-CC9 ZOO-CC9(P) BOT-CC9(P) ENVS-CC9(P)	PHY-CC9(P) CHEMCC9(P) MATH-CC10 ZOO-CC9(P) BOT-CC9(P) ENVS-CC9(P)	PHY-CC10 CHEM-CC10 ZOO-CC10 BOT-CC10 ENVS-CC10	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)	
SEM-IV PROG/GEN		BOT-PCC	CHEM-PCC (PRAC)	CHEM-PCC (PRAC)	PHYS-PCC	MATH-PCC ZOO-PCC	
PART-III HONOURS		BOT (PRAC) ENVS (PRAC) PHYS (Smart) MATH(BM)	BOT (PRAC) ENVS (PRAC) PHYS ZOO (Smart)	ZOO (PRAC) PHYS CHEM MATH BOT ENVS	ZOO (PRAC) CHEM (PRAC) MATH BOT ENVS	CHEM (PRAC) ENVS	
PART-III GENERAL		PHYS (PRAC)	PHYS (PRAC)	BOT	CHEM (PRAC)	CHEM (PRAC)	

Principal
Habadwip Vidyasagar Collge
Habadwip, Nadia-741312
10.01.2020

THURSDAY (SCIENCE) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEM-II HONOURS		PHY-CC4(P) CHEM-CC4(P) ZOO-CC4(P) BOT-CC4(P) ENVS-CC4(P) COMS-CC4(P)	PHY-CC4(P) CHEM-CC4(P) MATH-CC4 ZOO-CC4(P) BOT-CC4(P) ENVS-CC4(P) COMS-CC4(P)	PHY-CC3 CHEM-CC3 MATH-CC3 ZOO-CC3 BOT-CC3 ENVS-CC3	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)		
SEM-II PROG/GEN		PHYS-PCC (PRACTICAL)	PHYS-PCC (PRACTICAL)	CHEM-PCC (PRACTICAL)	CHEM-PCC (PRACTICAL)	MATH-PCC ZOO-PCC	BOT-PCC
SEM-IV HONOURS		PHY-CC8(P) CHEM-CC8(P) ZOO-CC8(P) BOT-CC8(P) ENVS-CC8(P)	PHY-CC8(P) CHEM-CC8(P) MATH-CC8 ZOO-CC8(P) BOT-CC8(P) ENVS-CC8(P)	PHY-CC9 CHEM-CC9 MATH-CC9 ZOO-CC9 BOT-CC9 ENVS-CC9	PHY-CC10 CHEM-CC10 MATH-CC10 ZOO-CC10 BOT-CC10 ENVS-CC10	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)	
SEM-IV PROG/GEN	MATH-PCC	BOT-PCC	CHEM-PCC (PRACTICAL)	CHEM-PCC (PRACTICAL)	PHYS-PCC (PRACTICAL) ZOO-PCC	PHYS-PCC (PRACTICAL)	
PART-III HONOURS		PHYS MATH ENVS ZOO(PRAC) BOT(PRAC)	PHYS CHEM MATH ENVS ZOO(PRAC) BOT(PRAC)	PHYS CHEM MATH ENVS ZOO BOT	PHYS (PRAC) CHEM MATH ENVS ZOO	PHYS (PRAC) CHEM (PRAC) MATH	PHYS CHEM (PRAC) ENVS
PART-III GENERAL		ZOO BOT	ZOO BOT	PHYS BOT	BOT	CHEM ZOO	CHEM


 10.01.2020
 Principal
 Nabadvip Vidyaagar College
 Nabadvip, Nadia- 741302

FRIDAY (SCIENCE) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEM-II HONOURS (Remedial/Tutorial Theory classes)		PHY-CC4 CHEM-CC4 MATH-CC4 ZOO-CC4 BOT-CC4 ENVS-CC4 COMS-CC4	PHY-CC3 CHEM-CC3 (Smart) MATH-CC3 ZOO-CC3 BOT-CC3 ENVS-CC3 COMS-CC3		PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)		
SEM-II PROG/GEN (Remedial/Tutorial Theory classes)		PHYS-PCC ZOO-PCC (PRAC)	PHYS-PCC ZOO-PCC (PRAC)	BOT-PCC (PRAC)	BOT-PCC (PRAC)	CHEM-PCC	
SEM-IV HONOURS (Remedial/Tutorial Theory classes)	PHY-SEC CHEM-SEC MATH-SEC ZOO-SEC BOT-SEC ENVS-SEC	PHY-CC8 CHEM-CC8 MATH-CC8 ZOO-CC8 BOT-CC8 ENVS-CC8	PHY-CC9 CHEM-CC9 MATH-CC9 ZOO-CC9 BOT-CC9 ENVS-CC9	PHY-CC10(P) CHEMCC10(P) MATH-CC10 ZOO-CC10(P) BOT-CC10(P) ENVS- CC10(P)	PHY-CC10(P) CHEMCC10(P) ZOO-CC10(P) BOT-CC10(P) ENVS-CC10(P)	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)	
SEM-IV PROG/GEN (Remedial/Tutorial Theory classes)	PHY-SEC CHEM-SEC MATH-SEC ZOO-SEC BOT-SEC ENVS-SEC	BOT-PCC (PRAC)	BOT-PCC (PRAC)	PHYS-PCC ZOO-PCC (PRAC)	PHYS-PCC ZOO-PCC (PRAC)	MATH-PCC	CHEM-PCC
PART-III HONOURS		PHYS (PRAC) BOT (PRAC) CHEM MATH ENVS	PHYS (PRAC) BOT (PRAC) CHEM MATH	PHYS MATH ZOO ENVS	PHYS CHEM MATH ZOO ENVS	PHYS(Tut/Rem) CHEM(Tut/Rem) MATH(Tut/Rem) ZOO(Tut/Rem) BOT(Tut/Rem) ENVS(Tut/Rem)	PHYS(Tut/Rem) CHEM(Tut/Rem) MATH(Tut/Rem) ZOO(Tut/Rem) BOT(Tut/Rem) ENVS(Tut/Rem)
PART-III GENERAL		ZOO (PRAC)	ZOO (PRAC) CHEM	CHEM	ZOO		

Principal
Nabadwip Vidyanagar College
Nabadwip, Nadia-741102
10.01.2020

SATURDAY (SCIENCE) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEM-II HONOURS (Remedial/Tutorial Theory classes)		PHY-CC4 CHEM-CC4 MATH-CC4 ZOO-CC4 BOT-CC4 ENVS-CC4 COMS-CC4	PHY-CC3 CHEM-CC3 MATH-CC3 ZOO-CC3 BOT-CC3 ENVS-CC3 COMS-CC3		PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)		
SEM-II PROG/GEN (Remedial/Tutorial Theory classes)		MATH-PCC	BOT-PCC	CHEM-PCC	ZOO-PCC		
SEM-IV HONOURS (Remedial/Tutorial Theory classes)		PHY-CC8 CHEM-CC8 MATH-CC8 ZOO-CC8 BOT-CC8 ENVS-CC8	PHY-CC9(P) CHEMCC9(P) MATH-CC9 ZOO-CC9(P) BOT-CC9(P) ENVS-CC9(P)	PHY-CC9(P) CHEMCC9(P) MATH-CC10 ZOO-CC9(P) BOT-CC9(P) ENVS-CC9(P)	PHY-CC10 CHEM-CC10 ZOO-CC10 BOT-CC10 ENVS-CC10	PHY(GE) CHEM(GE) MATH(GE) ZOO(GE) BOT(GE)	
SEM-IV PROG/GEN (Remedial/Tutorial Theory classes)		CHEM-PCC	ZOO-PCC	MATH-PCC	BOT-PCC		
PART-III HONOURS		ZOO(PRAC) BOT(PRAC) ENVS(PRAC) PHYS MATH	ZOO(PRAC) BOT(PRAC) ENVS(PRAC) CHEM MATH	PHYS CHEM MATH ZOO BOT ENVS	PHYS (PRAC) CHEM MATH ZOO BOT ENVS	PHYS (PRAC) CHEM (PRAC) ZOO (PRAC) MATH (BM) BOT ENVS	CHEM (PRAC) ZOO (PRAC) MATH(BM) ENVS
PART-III GENERAL			MATH	ZOO	ZOO	CHEM ZOO	

17.10.2020

Principal
Nabadwip Vidyaasagar College
Nabadwip, Nadia - 74

MONDAY (ARTS) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEMESTER- II HONOURS		BEN-CC3(1) ENG-CC3(8) SANS-CC3(26) PHIL-CC3(28)	HIST-CC3(10) ECO-CC3(11) POLS-CC3(6) EDCN-CC3(22) GEOG-CC3(19)	BEN(GE)-4 ENG(GE)-8 SAN(GE)-25 PHIL(GE)-27 HIST(GE)-10 ECO(GE)-9 POLS(GE)-6 EDCN(GE)-22	BENCC4(1) ENG-CC4(8) SANS-CC4(26) PHIL-CC4(28) GEOG-CC4(19)	HIST-CC4(10) ECO-CC4(11) POLS-CC4(6) EDCN-CC4(22)	MIL (BENG/COM.E) R-1
SEMESTER- II PROG/GEN		AECC (ENVS) 7	AECC (ENVS) 7		ENG-PCC-9 ECON-PCC-29 POLS-PCC-5 EDCN-PCC-23 PHY.ED-24	BENG-PCC-4 HIST-PCC-28 SANS-PCC-8 PHIL-PCC-25	LCC(BENG) R-4
SEMESTER- IV HONOURS		HIST-CC8(10) ECO-CC8(11) POLS-CC8(6) EDCN-CC8(22)	BEN-CC8(1) ENG-CC8(8) SANS-CC8(26) PHIL-CC8(28)	BENCC9(1) ENG-CC9(11) SANS-CC9(26) PHIL-CC9(28)	HIST-CC9(10) ECO-CC9(11) POLS-CC9(6) EDCN-CC9(22)	BENCC10(1) ENG-CC10(8) SANS-CC10(26) PHIL-CC10(28) HIST-CC10(9) ECO-CC10(5) POLS-CC10(6) EDCN-CC10(2)	BEN(GE)-2 ENG(GE)-8 SAN(GE)-26 PHIL(GE)-28 HIST(GE)-10 ECO(GE)-11 POLS(GE)-6 EDCN(GE)-22
SEMESTER- IV PROG/GEN	BENG-PCC-1 ECON-PCC-2	ENG-PCC-5 SANS-PCC-4	HIST-PCC-4	POLS-PCC-2	PHIL-PCC-7	LCC(ENG) R-7	EDCN-PCC-7
PART-III HONOURS		BENG-2 ENG-9 SANS-27 PHIL-29	HIST-7 POLS-5 ECON-29 EDCN-23	HIST-7 POLS-5 ECON-29 EDCN-23	BENG-24 ENG-9 SANS-26 PHIL-4		BENG(T)-24 ENG(T)-9 SANS(T)-27 PHIL(T)-25 HIST-29 POLS-5 ECON-7A EDCN-23
PART-III GENERAL			BENG-2 ENG-9	POLS-19 PHIL-19A	SANS-25 HIST-19 ECON-7A		

10.01.2020
Principal
Nabadwip Vidyasagar College
Nabadwip, Nadia-741302

TUESDAY (ARTS) (2019-2020)	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEMESTER-II HONOURS		BEN-CC3(1) ENG-CC3(8) SANS-CC3(26) PHIL-CC3(28)	HIST-CC3(10) ECO-CC3(11) POLS-CC3(6) EDCN-CC3(22) GEOG-CC3(19)	BEN(GE)-4 ENG(GE)-8 SAN(GE)-25 PHIL(GE)-27 HIST(GE)-10 ECO(GE)-9 POLS(GE)-6 EDCN(GE)-22	BEN-CC4(1) ENG-CC4(8) SANS-CC4(26) PHIL-CC4(28) GEOG-CC4(19)	HIST-CC4(10) ECO-CC4(11) POLS-CC4(6) EDCN-CC4(22)	
SEMESTER-II PROG/GEN		ENG-PCC-9 ECON-PCC-29 POLS-PCC-5 EDCN-PCC-23 PHY-ED-24	BENG-PCC-4 HIST-PCC-28 SANS-PCC-24 PHIL-PCC-25		LCC(BENG) R-4		
SEMESTER-IV HONOURS	BEN-SEC-1 ENG-SEC(8) SANS-SEC(26) HIST-SEC(9) ECO-SEC(5) POLS-SEC(6) EDCN-SEC(23)	HIST-CC8(10) ECO-CC8(11) POLS-CC8(6) EDCN-CC8(22)	BEN-CC8(1) ENG-CC8(8) SANS-CC8(26) PHIL-CC8(Smart)	BEN-CC9(1) ENG-CC9(11) SANS-CC9(26) PHIL-CC9(28)	HIST-CC9(10) ECO-CC9(11) POLS-CC9(6) EDCN-CC9(22)	BEN-CC10(1) ENG-CC10(8) SANS-CC10(26) PHIL-CC10(28) HIST-CC10(9) ECO-CC10(5) POLS-CC10(6) EDCN-CC10(23)	BEN(GE)-2 ENG(GE)-8 SAN(GE)-26 PHIL(GE)-28 HIST(GE)-10 ECO(GE)-11 POLS(GE)-6 EDCN(GE)-22
SEMESTER-IV PROG/GEN	EDCN-PCC-7 SEC (ALL EXCEPT EDCN) Rooms- Same as Hons.	BENG-PCC-7 ECON-PCC-7A	ENG-PCC-9 SANS-PCC-7	HIST-PCC-7	POLS-PCC-7	LCC(BENG) R-7	PHIL-PCC-7
PART-III HONOURS		BENG-4 ENG-Smart SANS-27 PHIL-25	HIST-10 POLS-5 ECON-7A EDCN-27	HIST-23 POLS-5 ECON-7A EDCN-24	BENG-2 ENG-9 SANS-23 PHIL-24 POLS-5	HIST-24 ECON-25 EDCN-27	HIST(T)-4 POLS(T)-5 ECON(T)-9 EDCN(T)-23
PART-III GENERAL			SANS-23	BENG-29 ENG-16	HIST-29 EDCN-27	PHIL-16 POLS-29	

10.01.2020

Principal
Nabadwip Vidyalaya College
Nabadwip, Nadia-741131

WEDNESDAY (ARTS) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEMESTER-II HONOURS		BEN-CC3(1) ENG-CC3(8) SANS-CC3(26) PHIL-CC3(28)	HIST-CC3(10) ECO-CC3(11) POLS-CC3(6) EDCN-CC3(22) GEOG-CC3(19)	BEN(GE)-4 ENG(GE)-28 SAN(GE)-25 PHIL(GE)-27 HIST(GE)-10 ECO(GE)-9 POLS(GE)-6 EDCN(GE)-22	BENCC4(1) ENG-CC4(8) SANS-CC4(26) PHIL-CC4(28) GEOG-CC4(19)	HIST-CC4(10) ECO-CC4(11) POLS-CC4(6) EDCN-CC4(22)	AECC (ENVS) R-1
SEMESTER-II PROG/GEN		ENG-PCC-9 ECON-PCC-29 POLS-PCC-5 EDCN-PCC-23 PHY-ED-24	BENG-PCC-4 HIST-PCC-28 SANS-PCC-24 PHIL-PCC-25		LCC(BENG) R-4		
SEMESTER-IV HONOURS		HIST-CC8(10) ECO-CC8(11) POLS-CC8(6) EDCN-CC8(22)	BEN-CC8(1) ENG-CC8-smart SANS-CC8(26) PHIL-CC8(8)	BENCC9(1) ENG-CC9-smart SANS-CC9(26) PHIL-CC9(8)	HIST-CC9(10) ECO-CC9(11) POLS-CC9(6) EDCN-CC9(22)	BENCC10(1) ENG-CC10(8) SANS-CC10(26) PHIL-CC10(28) HIST-CC10(9) ECO-CC10(5) POLS-CC10(6) EDCN-CC10(23)	BEN(GE)-2 ENG(GE)-8 SAN(GE)-26 PHIL(GE)-28 HIST(GE)-10 ECO(GE)-11 POLS(GE)-6 EDCN(GE)-22
SEMESTER-IV PROG/GEN	PHIL-PCC-7	EDCN-PCC-7	BENG-PCC-7 ECON-PCC-7A	ENG-PCC-9 SANS-PCC-7	HIST-PCC-7	LCC(BENG) R-7	POLS-PCC-7
PART-III HONOURS		BENG-4 ENG-9 SANS-27 PHIL-25	HIST-4 POLS-5 ECON-29 EDCN-27	BENG-5 ENG-11 SANS-23 PHIL-24	BENG-5 ENG-9 SANS-23 PHIL-24	BENG(T)-1 ENG(T)-24 SANS(T)-4 PHIL(T)-27	HIST-4 POLS-5 ECON-25 EDCN-27
PART-III GENERAL				SANS-29	EDCN-25 HIST-29	POLS-29	ECON-29

10.01.2020
Principal
Nabadwip Vidyaasagar College
Nabadwip, Nadia-741302

THURSDAY (ARTS) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEMESTER-II HONOURS		BEN-CC3(1) ENG-CC3(8) SANS-CC3(26) PHIL-CC3(28)	HIST-CC3(10) ECO-CC3(11) POLS-CC3(6) EDCN-CC3(22) GEOG-CC3(19)	BEN(GE)-4 ENG(GE)-28 SAN(GE)-25 PHIL(GE)-27 HIST(GE)-10 ECO(GE)-9 POLS(GE)-6 EDCN(GE)-22	BEN-CC4(1) ENG-CC4(8) SANS-CC4(26) PHIL-CC4(28) GEOG-CC4(19)	HIST-CC4(10) ECO-CC4(11) POLS-CC4(6) EDCN-CC4(22)	
SEMESTER-II PROG/GEN		ENG-PCC-9 ECON-PCC-29 POLS-PCC-5 EDCN-PCC-23 PHY.ED-24	BEN-PCC-4 HIST-PCC-28 SANS-PCC-24 PHIL-PCC-25		LCC(BENG) R-4		
SEMESTER-III HONOURS		HIST-CC5(10) ECO-CC5(11) POLS-CC5(6) EDCN-CC5(22)	BEN-CC5(1) ENG-CC5-8 SANS-CC5(26) PHIL-CC5(23)	BEN-CC6(1) ENG-CC6-8 SANS-CC6(26) PHIL-CC6(23)	HIST-CC6(10) ECO-CC6(16) POLS-CC6(6) EDCN-CC6(22)	BEN-CC7(1) ENG-CC7(8) SANS-CC7(26) PHIL-CC7(28) HIST-CC7(9) ECO-CC7(5) POLS-CC7(6) EDCN-CC7(23)	BEN(GE)-2 ENG(GE)-8 SAN(GE)-26 PHIL(GE)-28 HIST(GE)-10 ECO(GE)-16 POLS(GE)-6 EDCN(GE)-22
SEMESTER-IV PROG/GEN	HIST-PCC-7	PHIL-PCC-7	EDCN-PCC-7	BEN-PCC-7 ECON-PCC-7A	ENG-PCC-9 SANS-PCC-7	LCC(BENG) R-7	POLS-PCC-7
PART-IV HONOURS		HIST-4 POLS-25 ECON-7A EDCN-27 PHIL-16	BEN-5 ENG-9 SANS-Smart PHIL-16	HIST-4 POLS-5 ECON-11 EDCN-24	BEN-4 ENG-11 SANS-Smart PHIL-29	HIST-4 POLS-16 ECON-7A EDCN-Smart	BEN-4 ENG-11 SANS-1 PHIL-29 HIST(T)-10 POLS(T)-5 ECON(T)-25 EDCN(T)-24
PART-III GENERAL			HIST-27 EDCN-29	POLS-29 PHIL-16	SANS-5 ECON-7A	BEN-24 ENG-25	

10.01.2020
Principal
Nabadwip Vidyasagar College
Nabadwip, Nadia-741132

FRIDAY (ARTS) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEMESTER-II HONOURS (Tutorial/Remedial)		BEN-CC3(1) ENG-CC3(8) SANS-CC3(26) PHIL-CC3(28)	HIST-CC3(10) ECO-CC3(11) POLS-CC3(6) EDCN-CC3(22) GEOG-CC3(19)	BEN(GE)-4 ENG(GE)-28 SAN(GE)-25 PHIL(GE)-27 HIST(GE)-10 ECO(GE)-9 POLS(GE)-6 EDCN(GE)-22	BENCC4(1) ENG-CC4(8) SANS-CC4(26) PHIL-CC4(28) GEOG-CC4(19)	HIST-CC4(10) ECO-CC4(11) POLS-CC4(6) EDCN-CC4(22)	
SEMESTER-II PROG/GEN (Tutorial/Remedial)		ENG-PCC-25 ECON-PCC-29 POLS-PCC-5 EDCN-PCC-23 PHY.ED-24	BENG-PCC-4 HIST-PCC-28 SANS-PCC-24 PHIL-PCC-25		LCC(BENG) R-4		
SEMESTER-IV HONOURS (Tutorial/Remedial)	BENSEC-(1) ENG-SEC(8) SANS-SEC(26) PHIL-SEC(28) ECO-SEC(5) POLS-SEC(6) EDCN-SEC(23)	HIST-CC8(10) ECO-CC8(7A) POLS-CC8(6) EDCN-CC8(22)	BEN-CC8(1) ENG-CC8-8 SANS-CC8(26) PHIL-CC8(23)	BENCC9(1) ENG-CC9-8 SANS-CC9(26) PHIL-CC9(23)	HIST-CC9(10) ECO-CC9(16) POLS-CC9(6) EDCN-CC9(22)	BENCC10(1) ENG-CC10(8) SANS-CC10(2) PHIL-CC10(28) HIST-CC10(9) ECO-CC10(16) POLS-CC10(5) EDCN-CC10(23)	BEN(GE)-1 ENG(GE)-8 SAN(GE)-2 PHIL(GE)-28 HIST(GE)-10 ECO(GE)-16 POLS(GE)-6 EDCN(GE)-22
SEMESTER-IV PROG/GEN (Tutorial/Remedial)	EDCN-PCC-7 SEC (ALL EXCEPT EDCN) Rooms-Same as Hons.	ENG-PCC(16) SANS-PCC(7)	POLS-PCC-7	PHIL-PCC-7	HIST-PCC-7	LCC-7	BENG-PCC-7 ECON-PCC-7A
PART-III HONOURS	ECON-5 SANS-6 EDCN-8	ENG-9 SANS-2 PHIL-Smart HIST-4 POLS-11 EDCN-29	BENG-1 PHIL-29 HIST-23 POLS-5 ECON-7A EDCN-Smart ENG-9	SANS-11 PHIL-29 HIST-10 POLS-5 ECON-25 EDCN-Smart BENG-24	BENG-2 ENG-11 SANS-Smart PHIL-9 HIST-24 POLS-5 ECON-27 EDCN-25	BENG-4 ENG-9 SANS-24 PHIL-25 HIST-Smart POLS-27 ECON-29	BENG-4 ENG-11 SANS-24 PHIL-9 HIST-23 POLS-5 ECON-25 EDCN-27
PART-III GENERAL							

15.10.2020
Principal
Nabadwip Vidyasagar C
Nabadwip, Nadia-7

SATURDAY (ARTS) 2019-2020	10:00	11:00	12:00	1:00	2:00	3:00	4:00
SEMESTER-II HONOURS (Tutorial/Remedial)		BEN-CC3(1) ENG-CC3(8) SANS-CC3(26) PHIL-CC3(28)	HIST-CC3(10) ECO-CC3(16) POLS-CC3(6) EDCN-CC3(22) GEOG-CC3(19)	BEN(GE)-4 ENG(GE)-28 SAN(GE)-25 PHIL(GE)-27 HIST(GE)-10 ECO(GE)-26 POLS(GE)-6 EDCN(GE)-22	BENCC4(1) ENG-CC4(8) SANS-CC4(26) PHIL-CC4(28) GEOG-CC4(19)	HIST-CC4(4) ECO-CC4(16) POLS-CC4(6) EDCN-CC4(22)	
SEMESTER-II PROG/GEN (Tutorial/Remedial)		ENG-PCC-9 ECON-PCC-29 POLS-PCC-5 EDCN-PCC-23 PHY.ED-24	BENG-PCC-4 HIST-PCC-28 SANS-PCC-24 PHIL-PCC-25		LCC(BENG) R-4		
SEMESTER-IV HONOURS (Tutorial/Remedial)	EDCN-SEC(7)	HIST-CC8(10) ECO-CC8(16) POLS-CC8(6) EDCN-CC8(22)	BEN-CC8(1) ENG-CC8-8 SANS-CC8(26) PHIL-CC8(23)	BENCC9(1) ENG-CC9-8 SANS-CC9(26) PHIL-CC9(23)	HIST-CC9(10) ECO-CC9(16) POLS-CC9(6) EDCN-CC9(22)	BENCC10(1) ENG-CC10(8) SANS-CC10(26) PHIL-CC10(28) HIST-CC10(10) ECO-CC10(7A) POLS-CC10(5) EDCN-CC10(23)	BEN(GE)-1 ENG(GE)-8 SAN(GE)-26 PHIL(GE)-28 HIST(GE)-10 ECO(GE)-16 POLS(GE)-6 EDCN(GE)-22
SEMESTER-IV PROG/GEN (Tutorial/Remedial)	EDCN-SEC(7) ENG-PCC(5) SANS-PCC(1)	POLS-PCC-7	HIST-7	PHIL-PCC-7	EDCN-PCC-7	LCC-7	BENG-PCC-7 ECON-PCC-7A
PART-III HONOURS (Tutorial/Remedial)		BENG-2 PHIL-11 HIST-4 POLS-27 ECON-7A EDCN-25	BENG-2 ENG-9 SANS-27 PHIL-11 POLS-5 ECON-7A EDCN-29	BENG-2 ENG-9 SANS-24 PHIL-11 HIST-29 POLS-5	BENG-2 ENG-9 SANS-24 PHIL-11 HIST-29 POLS-5 ECON-25 EDCN-27	ENG-9 SANS-24 PHIL-11 HIST-29 POLS-Smart ECON-25 EDCN-27	BENG-4 PHIL-11 HIST-29 POLS-5 ECON-16 EDCN-27 ENG-9 SANS-24
PART-III GENERAL							

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