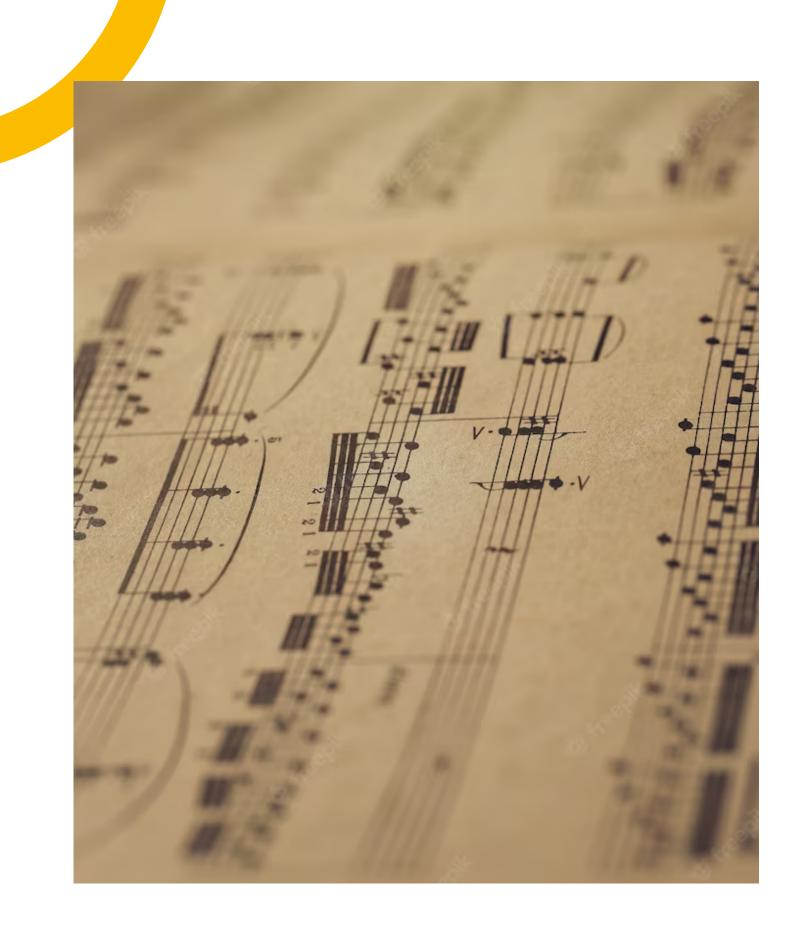


Departmental Seminar

MATHEMATICAL MUSIC THEORY

Presented By, **Pritam Das 4th Semester**



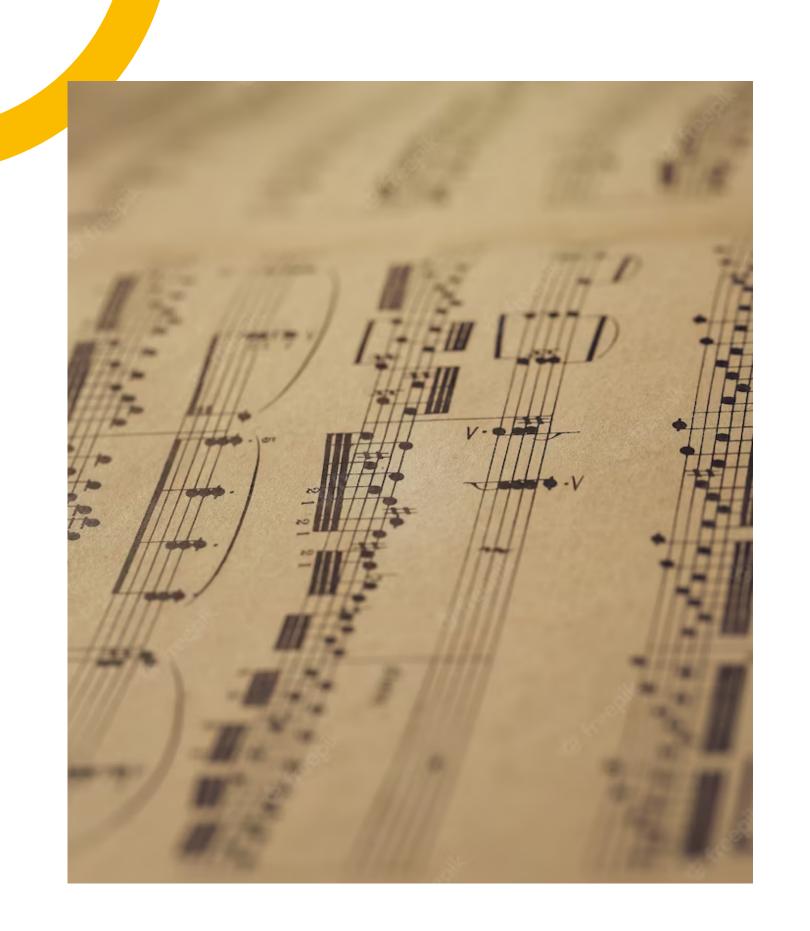
INTRODUCTION

- **Mathematical Music Theory**
- is an interdisciplinary field
- that studies the mathematical
- properties of music. This
- presentation analyzes
- harmonic progressions,
- chord structures, and
- **rhythms** using mathematical formulas and models.

Harmonic Progressions



In music theory, harmonic progressions refer to the movement of chords from one to another. This slide discusses how to analyze and describe harmonic progressions using mathematical models.





music.

CHORD STRUCTURES

- Understanding chord structures is important for analyzing music. This slide explains how to use mathematical models to analyze and identify chord structures
- in different genres of

RHYTHMS

Rhythm is an essential element of music. This slide discusses how to analyze and describe different **rhythmic patterns** using mathematical models. We will explore the mathematical relationship between rhythm and tempo.



APPLICATIONS

Mathematical music theory has practical applications in music composition, analysis, and education. This slide will showcase some examples of how mathematical models can be used to create and analyze music.



CONCLUSION

In conclusion, mathematical music theory provides a powerful tool for analyzing and understanding the complex structures of music. By applying mathematical models and formulas, we can gain new insights into the harmonic progressions, chord structures, and rhythms of different genres of music.

THANK YOU

