

Semester II

Discipline Specific Course - 4

Theory: Interdisciplinary Approach in Indian Music

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		L	T	P		
Interdisciplinary Approach in Indian Music DSC -4	4	3	1	0	• B A (Hons.) • Any Diploma in Karnatak music from recognised institute along with Bachelor's Degree in any discipline	Must have learned the raga and tala covered in the BA (Hons) Course. Must have covered the raga, tala of 1st semester of M A

Credit: 4

Course Objectives:

- The main focus of this paper is the students understand the inter relations between Music and Mathematics and musical sound based on principles of Physics. Students also understand the positive aspects of Music in personality development.

Course Learning Outcomes:

- Gain knowledge about the relation between music and mathematics.
- Students become economically strong after taking music as a profession.
- Gain skills in music and in personality development.

Contents

Unit -1: Music and Mathematics (10 Hours)

- Utilisation of Mathematical calculations in Creative Music in general
- Mathematical Approach in Composing
- Calculations of Shruti Values.
- Calculations of tala and other details in Swara Kalpana

Unit -II: Music & Physics (15 Hours)

- Analytical study of Musical sound based on principles of physics
- Sound production, Transmission and Reception.
- Acoustics
- Frequency and its calculations

Unit -III: Music and Philosophy (10 Hours)

- Philosophical aspects found in Musical forms
- Refection of Indian Philosophy in the Compositions of Trinity
- Analysis of the compositions of Neelakantha Shivan
- Analysis of the compositions of Sadashiva Brahmendra and Vedanayakam Pillai

Unit IV: Music and psychology (10 Hours)

- Positive aspects of Music in personality development – a psychological approach.
- Basic Concepts of music Therapy
- Anatomy of vocal tract and its relation to sound production
- Feel Good Music.

Suggested Readings:

1. Fox Strangways, A. H. (1965), Music of Hindustan, Oxford University Press, Amen House, London, EC-4
2. Popley, H. A. (1986), The Music of India, Edited by Coomaraswamy A, Ragani Award, New Delhi
3. Bhagyalekshmy, S. Dr. (2003), Raga Lakshanas (Ragas in Carnatic Music) , College Book house, Trivandrum, Kerala
4. Sambamurthy, P, Prof. (1959), Laya Vadyas, All India Handicrafts Board, New Delhi
5. Venkatachalam, Radha, Prof. (2002), Cruises of A Musical Researcher's Pen, Karnatic Music Book Centre, Royapettah, Chennai – 14
6. Deva, B.C. (1987), Musical Instruments of India, Munshram Manohar Lal Publishers Pvt. Ltd., New Delhi
7. Ghosh, Manmohan (edited -1967), Natya Shastra, Manisha Granthalya Pvt. Ltd.Kolkata-12
8. Premlata, V. (1985), Music through the Ages, Sundeep Prakashan, Delhi