

DSE Course – 802 (Theory – Elective) Inter Disciplinary 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		
Inter Disciplinary Approach in Indian Music 802	4	3	1	0	<ul style="list-style-type: none"> • Class XII Pass • Must have learnt for a minimum of 3 years at an established music institute or from a reputed guru 	Must have studied the following papers <ul style="list-style-type: none"> • General Musicology (Sem- I) • Theory of Indian Music (Sem – II, III, IV, V, VI & VII) <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Understanding of the basic concepts such as Shruti, Swara, Raga, Tala etc and their associated components • Knowledge of the notation system

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.
- Student also understand that the positive aspects of Music in personality development.

Course Learning Outcomes:

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

Contents

Unit 1: (10 Hours) Music & Mathematics

- Utilization of mathematical calculations in creative music in general
- Mathematical approach in composing
- Calculation of shruti values
- Calculations of Tala and other details in swara kalpana

Unit 2: (15 Hours) Music & Physics

- Analytical study of Musical sound based on principles of physics
- Sound-production, transmission & reception
- Acoustics
- Frequency and its calculation

Unit 3: (10 Hours) Music & Philosophy

- Philosophical aspects found in Musical forms

- Reflection of Indian Philosophy in the compositions of Trinity
- Analysis of the compositions of Neelakantha Sivan
- Analysis of the composition of Sadasiva Branhmendra & Vedanayakam Pillai

Unit 4: (10 Hours) Music & Psychology

- Positive aspects of Music in personality development - a psychological Approach
- Basic concept of Music Therapy
- Anatomy of Musical tract
- Feel good music

Suggestive reading:

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. Bhalla, Deepti Omchery, Prof. (2006), Vanishing Temple Arts, Shubhi Publications, Gurgaon – 122002, Haryana
6. Venkatachalam, Radha, Prof. (2002), Cruises of A Musical Researcher"s Pen, Karnatic Music Book Centre, Royapettah, Chennai - 14
7. Deva, B.C. (1987), Musical Instruments of India, Munshram Manohar Lal Publishers Pvt. Ltd., New Delhi
8. Ghosh, Manmohan (edited - 1967), Natya Shastra, Manisha Granthalya Pvt. Ltd., Kolkata-12
9. Premlata, V. (1985), Music through the Ages, Sundeep Prakashan, Delhi.