



CERTIFICATE COURSE DETAILS

NAME OF THE COURSE

VEDIC MATHEMATICS AND ITS APPLICATIONS

COURSE DETAILS

Total hours: 30

COURSE COORDINATOR

Dr. Seena Varghese

ABOUT COLLEGE

Christ College (Autonomous) Irinjalakuda, established in the year 1956 by CMI fathers has always been place where young generations are moulded towards a bright future. College has excellent infrastructure, with state-of-the-art laboratories, seminar rooms and lecture halls. The campus is Wi-Fi enabled. Presently College is house for 4500+ students. 200 teaching staff and 45 supporting staff. The strength of the College lies in its hardworking and tech savvy teachers who are eager to involve in all matters of students. The lush green campus with gardens and open gym is moving towards the next phase on education both offline and online.

AIM OF THE COURSE

To help students in simplifying mathematical calculations, improving speed, accuracy, memory and concentration thereby ensuring better performance in competitive examinations.

COURSE OUTCOMES

- Develop familiarity with basic Vedic Mathematics concepts.
- Learn various methods for performing mathematical operations using Vedic Mathematics.
- Gain knowledge about the Samgamagrama Madhava concept of and other allied numerical concepts.
- Explore applications of Vedic Mathematics.

SYLLABUS

Module-I Basic Level (5 Hours)

Chapter – 1 : Basic Principles and Concepts based on Vedic Mathematics

Chapter – 2 : Criss-Cross Method of Multiplication

Chapter – 3 : Squaring

Chapter – 4: Cubing

Chapter – 5 : Square Root and Cube Root

Module-II Intermediate Level (10 Hours)

Chapter – 6 : Basic Method for Multiplication

Chapter – 7 : Basic Method for Squaring

Chapter – 8 : Digital Sum Methods

Chapter – 9 : Magic Squares

Chapter – 10 : Dates and Calendars

Chapter – 11 : General Equations

Chapter – 12 : Simultaneous Linear Equations

Module-III Advanced Level (10 Hours)

Chapter – 13 : Square Root of Imperfect Squares

Chapter – 14: Cubing

Chapter – 15 : Basic Method of Division-1

Chapter – 16 : Basic Method of Division -2

Chapter – 17 : Sangamagrama Madhava Concept of π and Other Allied Numerical Concepts

Module-IV Applications (5 Hours)

Chapter – 18 : Exponential powers and various numerical operations based on Russian Mathematics, Japanese Mathematics and Mental Mathematics.

References

1. Vedic Mathematics , Jagadguru Swami Sri Bharati Krishna Tirthaji Maharaja
2. Vedic Mathematics for schools, J. T. Glover