# Vedic Mathematics and its Applications

Summary Report 2023-24( Certificate Course)

<u>REPORT</u>

The course started on December 2023. There were 26 students enrolled and 15 completed the course. The course was of 30 hrs. duration.

#### **Course Outcome:**

After completing this course, students will be able to:

- CO1: Develop familiarity with basic Vedic Mathematics concepts.
- CO2: Learn various methods for performing mathematical operations using Vedic Mathematics.
- CO3: Gain knowledge about the Samgamagrama Madhava concept of  $\pi$  and other allied numerical concepts.
- CO4: Explore applications of Vedic Mathematics.

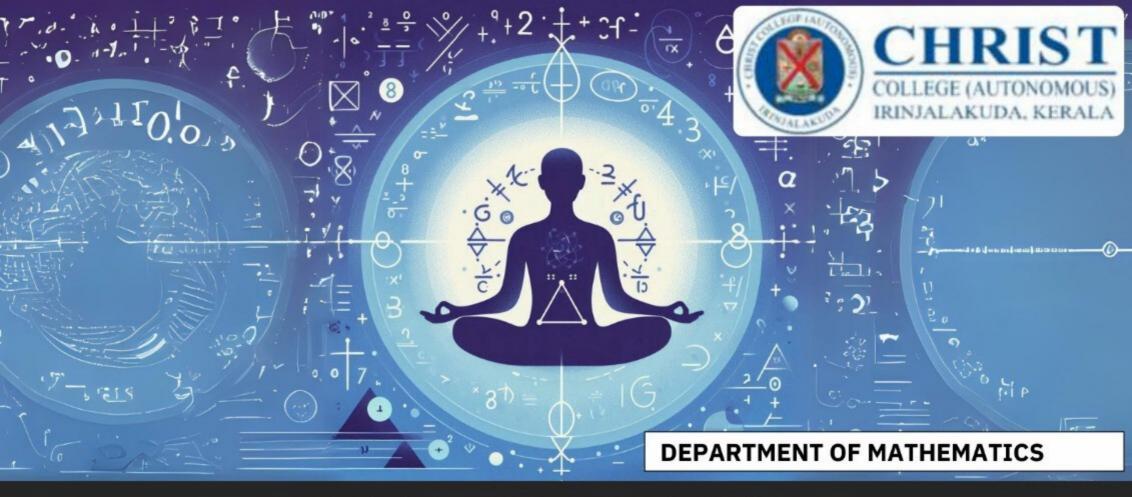
Evaluation

Participants will be assessed on test after the completion of course.

#### **Target Audience:**

UG and PG Students

Course Coordinator: Dr. Seena Varghese



# **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. ۲

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 пand 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

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



#### POSTGRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS



This is to certify that

Ms./Mr. <u>ANTO PAUL</u>, <u>B.Sc. CHEMISTRY</u> has successfully completed the certificate course on Vedic Mathematics and Its Applications conducted by Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda during the academic year 2023-24.

Dr. SEENA V Head of the Department

Dr. SEENA VARGHESE **Course Coordinator** 

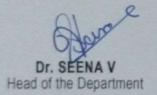


#### POSTGRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Certificate

This is to certify that

Ms./Mr. <u>ANUROSE P.S., B.Sc. MATHEMATICS</u> has successfully completed the certificate course on Vedic Mathematics and Its Applications conducted by Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda during the academic year 2023-24.



Dr. SEENA VARGHESE Course Coordinator







#### POSTGRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Certificate

This is to certify that

Ms./Mr. <u>ATHULLYA (01R15H</u>, B.A. ECONOMICS has successfully completed the certificate course on Vedic Mathematics and Its Applications conducted by Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda during the academic year 2023-24.

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Dr. SEENA V Head of the Department

Dr. SEENA VARGHESE Course Coordinator





#### POSTGRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Certificate

This is to certify that

Ms./Mr. <u>GIFTY ROSE GEORGE</u>, B.Sc. MATHEMATICS has successfully completed the certificate course on Vedic Mathematics and Its Applications conducted by Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda during the academic year 2023-24.



Head of the Department

Dr. SEENA VARGHESE Course Coordinator



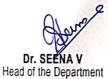


> POSTGRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Certificate

This is to certify that

Ms./Mr. <u>MERITTA SHIBU</u>, <u>B.Com FINANCE</u> has successfully completed the certificate course on Vedic Mathematics and Its Applications conducted by Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda during the academic year 2023-24.



Dr. SEENA VARGHESE Course Coordinator

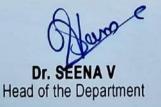




# POSTGRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS



This is to certify that Ms./Mr. <u>T. B. YASMIN</u>, <u>B.Sc. PHYSICS</u> has successfully completed the certificate course on Vedic Mathematics and Its Applications conducted by Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda during the academic year 2023-24.



Dr. SEENA VARGHESE Course Coordinator



