

CERTIFICATE COURSE IN VEDIC MATHEMATICS

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
Non - Semester	24MACVM	Certificate Course	2	2	-	100	100
Course Title		Vedic Mathematics					

SYLLABUS		
Unit	Contents	Hours
I	Addition – addition using zero ending numbers – addition of algebraic expression. Subtraction – subtraction using “Ekadhikena Poorvena” – subtraction using “Ekanyunena Poorvena” – subtraction of polynomials - Multiplication – multiplication using “Nikhilum” sutra - multiplication using “Urdhva Triyagbhyam”	6
II	Division – division using “Nikhilum” sutra - division using “Paravartya Yojayet” – division of polynomials - Divisibility – Positive Osculators - Negative Osculators Square and Square root – square using Yavadunam Method – square using “Ekadhikena Poorvena” – square root	6
III	Cube and Cube roots – cube using Yavadunam Method – cube using “Anurupyena” method – cube root - Decimals – operation on decimals – conversion into decimals – addition of decimals – subtraction of decimals – multiplication of decimals Factorization – simple quadratic equation – homogeneous quadratic equation – complex quadratic non homogenous polynomials – cubic polynomials	6
IV	Highest common factor - Simple equation - Quadratic equation	6
V	Cubic equation – solving cubic equation using “Purna and Paravartya” – special types of cubic equations - Biquadratic equation - Simultaneous Equation – Solving for X – Solving Y	6

Text Book:
Pandit Ramnandan Shashtri, For Competitive Exams Vedic Mathematics MADE EASY Arihanth Publication (I) Pvt. Ltd, Meerut. 2011. Unit I Chapter 1, 2, 3 Unit II Chapter 4, 5, 6 Unit III Chapter 7, 8, 9 Unit IV Chapter 10, 11, 12 Unit V Chapter 13, 14, 15
Reference Books:
1. Rajesh Kumar Thakur, Speed Mathematics Do It Quick, Do It Right! Rupa Publication Pvt. Ltd, 2022 2. Dhaval Bathia, Vedic Mathematics The Problem Solver, Maple Press Private Limited Edition, 2020
Web Resources:
1. https://www.youtube.com/watch?v=0UL8P-mpRfU 2. https://www.youtube.com/watch?v=S7G1uAK6c-s 3. https://www.youtube.com/watch?v=8WS-O1XA7_o

Course Coordinator: Dr. A. Prasanna

Evaluation Pattern: Descriptive pattern

Part-A (5 Questions out of 8) 5 x 8 = 40 Marks

Part-B (5 Questions out of 8) 5 x 12 = 60 Marks

Total = 100 Marks