

हरियाणा विद्यालय शिक्षा बोर्ड, भिवानी Board of School Education Haryana, Bhiwani



(Established Under Haryana Board of School Education Act, 1969) (ISO 9001 : 2015 - Certified Organization)

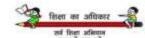
Syllabus for Certificate Course of Vedic Mathematics for Class 12th

(Total No. of Modules=10, Total No. of Lectures = 30)

Sr. No. of Modules	Name of Modules	No. and Name of Lectures	Marks Allotted 100
Module1	Fundamental Operations in Arithmetic	 Aims and Objectives of Vedic Mathematics, Sutras and Up-sutras of Vedic Mathematics Vinculum Numbers and their Applications in Tables, Addition, Multiplication and Division Multiplication, by Nikhilam, Ekadhikena, Ekanyunena & Urdhvatiryagbhyam Beejank and their Applications in Addition, Subtraction, Multiplication, Square and Division Straight Division by Nikhilam, Paravartya & Dhwajank 	15
Module 2	Extended Operations	 Square and Square root by Dwandvayoga, Addition and Difference of Squares Square root by Vilokanam & Dwandva yoga, Cube and Cube root Meru Prastar in Higher Powers 	10
Module 3	Osculators	 Recurring Decimals by Ekadhikena and Ekanyunena Divisibility Test and Quotient by Ekadhikena and Ekanyunena 	10
Module 4	Mixed Operations	Mixed Operations of Addition, Subtraction Multiplication and Square by Simultaneous Operations	10
Module 5	Polynomials	 Products of Polynomials, Solutions of a pair of Linear Equations in two and three Variables Square, Cube and Higher Powers of Polynomials Solution of Quadratic and Cubic Equations Meru Prastar in Higher Powers 	10
Module 6	Baudhayan Numbers	 Baudhayan Numbers of Sum and Differences of Angles Formation of Trigonometric Identities Solution of Trigonometric functions 	10
Module 7	Coordinate Geometry	 Equations of Straight Lines Area of Triangles (When vertices are given) Distance and Section Formula 	10











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आज़ादी_{का} अमृत महोत्सव

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Module 8	Differentiation and	1.	Differention of Composite	10
	Integration	2.	Functions upto Third Order	
		3.	Integration of Composite functions	
			and Integration by Partial Fractions	
		4.	Definite Integral	
Module 9	Determinants	1.	Determinants of Order 2x2, 3x3	5
		2.	Inverse of Matrices and Solutions of Equations	
			using Determinants	
Module 10	Ganit Sutras Texts	1.	Shad Chakras Format of Human Frame with	10
		Focus upon the fourth Chakra Format of Heart		
		2. Intelligence Field and Processing Steps of Ganita-		
			sutras and Ganita up-sutras.	
		3.	Organization Format and Features of Vedic Ganita	
			sutras and Upsutras text.	

Summary of Modules and Lectures with Weightage

No. of Modules	No of Lecturers	Marks Allotted in Assignments	Marks Allotted in Written Examination
1	5	3	12
2	4	2	8
3	2	2	8
4	1	2	8
5	4	2	8
6	3	2	8
7	3	2	8
8	3	2	8
9	2	1	4
10	3	2	8
Total	30	20	80





