

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 10<sup>th</sup> (Total No. of Modules=10, Total No. of Lectures = 30)

Sr. No.	Name of Topics	No. and Name of Lectures	Marks Allotted 100
Module1	Fundamental Operations: Addition, Subtraction, Multiplication & Division	<ol> <li>Vinculum Numbers</li> <li>Addition, Subtraction by Ekadhikena &amp; Shunyant</li> <li>Multiplication, by Nikhilam, Ekadhikena, Ekanyunena &amp; Urdhvatiryagbhyam</li> <li>Tables, LCM. &amp; HCF</li> <li>Straight Division by Nikhilam, Paravartya &amp; Dhwajank</li> <li>Percentage, Profit and Loss</li> <li>Prime Factors and Sum of factors</li> </ol>	15
Module 2	Extended Operations: Square, Square root, Cube and Cube root	<ol> <li>Square by Ekadhikena, Nikhilam and Dwandvayoga</li> <li>Square root by Vilokanam &amp; Dwandva yoga</li> <li>Cube by Nikhilam and Dwandvayoga</li> <li>Cube root by Vilokanam</li> </ol>	10
Module 3	Osculators	<ol> <li>Fractions as Recurring Decimals by Ekadhikena</li> <li>Divisibility Test by Ekadhikena</li> </ol>	10
Module 4	Mixed Operations	<ol> <li>Mixed Operations in Addition, Subtraction, Multiplications, Square, Cube, Square root and Cube root</li> </ol>	10
Module 5	Polynomials	<ol> <li>Products of Polynomials</li> <li>Solutions of a pair of Linear Equations in two Variables</li> <li>Division of Polynomials</li> <li>Factorization of Polynomials</li> <li>Polynomials as Square, Cube and Higher Powers</li> </ol>	10
Module 6	Quadratic Equations & Cubic Equations	<ol> <li>Quadratic Equations by General formula by sutra 3 &amp; 4</li> <li>Cubic Equations by Sutra 3 &amp; 4</li> </ol>	10
Module 7	Surface Area and Volume	<ol> <li>Surface Area &amp; Volume of Cube, Cuboid, Cylinder, Cone &amp; Sphere</li> </ol>	5
Module 8	Coordinate Geometry	<ol> <li>Distance Formula &amp; Section Formula</li> <li>Formation of Line having passing through Vertices</li> <li>Area of Triangle</li> </ol>	5





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Module 9	Trigonometry	1. 2.	Fundamental T-ratios Height and Distance	15
Module 10	Ganit Sutras Texts	1. 2. 3.	Devanagari Alphabet Ganita sutras 1& 2 and Ganit Up-sutras-1& 2 Intelligence Field Growth	10

## Summary of Modules and Lecturers with Weightage

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





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