

PROGRAMME NAME: All Courses Sem III
COURSE NAME: Vedic Mathematics -II
SEMESTER DURATION: August to December 2023

WEEK	TOPIC(S)	TEACHING METHODOLOGY ADOPTED/CONTINUOUS INTERNAL EVALUATION
1-2	History of Vedic Maths and its features, Vedic Maths formulae: Sutras and Upsutras	Classroom teaching and presentation by the students demonstrating the application of Vedic Maths-Sutras and Upsutras.
3-5	Addition in Vedic Maths: Without carrying, Dot Method, Subtraction in Vedic Maths :Nikhilam Navatashcaramam Dashatah(all from 9 last from 10), Fraction-Addition and Subtraction	Classroom teaching, Evaluation through students demonstration where they can use tricks of Vedic maths of addition and subtraction to calculate the amount to pay and receive the difference while purchasing.
6-10	Multiplication in Vedic Maths: Base Method (any two numbers upto three digits), Multiplication by Urdhva Tiryak Sutra, Miracle multiplication: Any three-digit number by series of 1's and 9's, Division by Urdhav Tiryak Sutra(Vinculum method)	Classroom teaching and demonstration by students in the form of presentations
10-11	Squares of any two –digit numbers: Base method,	Classroom teaching and Presentations

	Squares of numbers ending in 5: Ekadhikena Purvena Sutra, Easy square roots: Dwandwa Yoga (duplex) Sutra	
12	Square root of 2: Baudhayana Shulbasutra, Cubing: Yavadunam Sutra	Classroom teaching Evaluation through quizzes ,surprise test and remedial classes for slow learners
13-14	Factoring Quadratic equation: Anurupyena, Adyamadyenantyamantya Sutra, Concept of Baudhayana (Pythagoras) Theorem, Circling a square: Baudhayana Shulbasutra	Classroom teaching and demonstrations by the students
15	Concept of pi: Baudhayana Shulbasutra, Concept angle) (θ), $0^\circ, 30^\circ, 45^\circ, 60^\circ$ and 90° : Baudhayana number	Classroom teaching and Project report consisting of student's experiences
16	Revision and Test	Evaluation through Question and Answer Session