

Lecture Plan		
Name of the College: Government College of Arts, Science and Commerce, Sanquelim-Goa		
Name of Faculty: Rohit R. Redkar	Subject: Mathematics	
Paper code: VAC-122 Vedic Mathematics	Program: B.Sc.	Division: -
Academic year: 2026-27	Semester: I	Total Lectures: 30
Course Objectives:		
1. To make students understand the Vedic sutras for arithmetic and algebraic calculations.		
Expected Course Outcome:		
1) Understand fundamental Vedic sutras for arithmetic operations.		
2) Demonstrate Vedic multiplication and division techniques for efficient calculation.		
3) Apply Vedic sutras to accurately determine square, square roots, cube and cube roots.		
4) Develop skills in Vedic Mathematics for polynomial multiplication and quadratic equations.		
Student Learning Outcome: Student will be able to		
1) Apply Vedic sutras to perform fast and accurate arithmetic calculations.		
2) Use Vedic methods to solve problems involving squares, cubes, polynomials and quadratic equations.		

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
June July	22/06/2026	27/06/2026	1	Introduction to Vedic Mathematics; its origin and importance; overview of the 16 Sutras and 13 Sub-sutras. Addition using the sutras Purna Puranabhyam and Sankalan Vyavkalanabhyam.		Smart Board	Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
	29/06/2026	04/07/2026	2	Addition using Ekadhikena Purvena; practice problems on addition. Subtraction using Nikhilam Navatascaramam Dastatah.		Smart Board	Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
	06/07/2026	11/07/2026	2	Subtraction using the Vinculum method. Subtraction using the Digit separator method; practice problems on subtraction.			Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
	13/07/2026	18/07/2026	2	Multiplication using Nikhilam Navatascaramam Dastatah. Multiplication using the Urdhva-Tiryagbhyam method (introduction).		Smart Board	Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
	20/07/2026	25/07/2026	2	Urdhva-Tiryagbhyam method for multi-digit multiplication; practice problems. Multiplication in special cases using Antyayordashakepi and Antyayoshatakepi.		Smart Board	Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
Jul/Aug	27/07/2026	01/08/2026	2	Multiplication in special cases using Vamanlvavoh Dasake Api and Ekanyunena Purvena. Multiplication by special numbers 11, 111 and 1111.	ISA I Assignment		Rajesh Kumar Thakur: The Essentials of Vedic Mathematics

August	03/08/2026	08/08/2026	2	Multiplication by special numbers 5, 25, 50, 125 and 625. Mixed practice and problem solving on Unit I sutras (addition, subtraction, multiplication).		Smart Board	Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
	10/08/2026	15/08/2026	2	Unit I review and assessment/quiz on arithmetic sutras. Division using the Nikhilam method.		Smart Board	Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
	17/08/2026	22/08/2026	2	Division using the Paravartya Yojyet method. Division using the Urdhva-Tiryagbhyam method; practice problems.			Rajesh Kumar Thakur: Advanced Vedic Mathematics
	24/08/2026	29/08/2026	2	Finding squares using Ekadhikena Purvena. Finding squares using the Duplex method.		Smart Board	Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
Aug/Sep	31/08/2026	05/09/2026	2	Finding square roots using the Vilokanam method. Finding cubes using the Yavadunam method.	ISA II Test	Smart Board	Rajesh Kumar Thakur: Advanced Vedic Mathematics
September	07/09/2026	12/09/2026	2	Finding cubes using the Anurupyen method. Finding cube roots using the Vilokanam method.			Rajesh Kumar Thakur: Advanced Vedic Mathematics
	14/09/2026	19/09/2026	0	Ganesh Chaturthi Break (14–19 Sep)			
	21/09/2026	26/09/2026	2	Multiplying two polynomials using the Urdhva-Tiryagbhyam method. Practice problems on polynomial multiplication.		Smart Board	Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
Sep/Oct	28/09/2026	03/10/2026	1	Solving quadratic equations using the Vilokanam method.	ISA III Test	Smart Board PDF	Rajesh Kumar Thakur: Advanced Vedic Mathematics

October	05/10/2026	10/10/2026	2	Solving quadratic equations using the Shunyam Sama Samuchchaye method. Mixed practice and problem solving on Unit II sutras (division, squares/cubes, polynomials, quadratics).		Smart Board	Rajesh Kumar Thakur: The Essentials of Vedic Mathematics
	12/10/2026	14/10/2026	1	Revision			Rajesh Kumar Thakur: The Essentials of Vedic Mathematics

* Assessment Rubrics

Component	Max Marks
ISA 1	5
ISA 2	5
Practical	Nil
Project	Nil
Semester End Exam	40