



ST. XAVIER'S COLLEGE, MAPUSA GOA

College with Potential for Excellence
 Re accredited by NAAC with A Grade
 Awarded DBT STAR College Scheme

Nature of Event (Workshop, Guest Lecture, Add on Course, Seminar, etc.)	Certificate Course
Name of Department	Mathematics
Faculty Incharge	Dr. Jervin Zen Lobo
Stratum of Event (College, State, Regional, National)	College
Title of Event	Vedic Mathematics (Exploring the rich Indian Knowledge System)
Date of Event	06 January 2025 to 23 January 2025
Venue	Lecture Hall 214
Resource Person details	Mr. Divesh Damodar Maulingkar Savitribai Phule Pune University Pune, Maharashtra.
Objective/ Scope of Event	The certificate course was floated with the following objectives <ol style="list-style-type: none"> 1. To enhance speed and accuracy. 2.To develop problem solving skills. 3.To boost confidence in Mathematics. 4.To improve memory and concentration. 5. To preserve India's rich Mathematical heritage.
Particulars of Event	The certificate course was conducted over 36 hours through interactive lectures, tutorials, exercises, assignments, self-study, and evaluations. It covered two primary units: Vedic Sutras for Arithmetic Calculations – I <ul style="list-style-type: none"> • Introduction to Vedic Mathematics and its 16 sutras and 13 sub-sutras • Magic tricks and simple methods for faster calculations • Addition and subtraction using Vedic Sutras • Multiplication techniques using special sutras • Special cases of multiplication with numbers like 11, 25, 50, etc. Vedic Sutras for Arithmetic Calculations - II <ul style="list-style-type: none"> • Division techniques using Vedic methods

	<ul style="list-style-type: none"> • Finding squares, square roots, cubes, and cube roots using efficient Vedic methods • Polynomial multiplication and solving quadratic equations with Vedic formulas <p>To assess the knowledge gained and skills acquired, participants were tested through assignments, MCQs and a written test, in addition to the overall response. Based on scores achieved out of a total of 100, grades were assigned as follows: 85-100: A+, 70-84: A, 60-69: B, 50-59: C, Below 50: F</p>
Outcome of Event	<p>By the end of the course, students:</p> <ol style="list-style-type: none"> 1. Developed confidence in problem-solving and improved computation speed. 2. Learned the application of fundamental Vedic sutras in arithmetic. 3. Demonstrated multiplication and division using efficient Vedic techniques. 4. Mastered techniques to quickly determine squares, square roots, cubes, and cube roots. 5. Understood the application of Vedic methods in polynomial calculations and quadratic equations.
Feedback	<p>Participants provided positive feedback, highlighting the ease and efficiency of Vedic Mathematics in calculations. They found the course highly engaging, and many expressed interests in further exploration of various sutras in Vedic methods. The interactive nature of the sessions, “tricks and techniques” and practical application exercises were particularly appreciated.</p>
Brochure	<p>https://xavierscollegegoa.ac.in/wp-content/uploads/2025/03/Brochure.pdf</p>
Total No. of Participants	<p>35</p>
Photographs	<p>https://xavierscollegegoa.ac.in/wp-content/uploads/2025/03/1-5.pdf</p>

