ST. XAVIER'S COLLEGE, MAPUSA-GOA

Report of Activity conducted in the Academic Year 2025-26

Name of Activity	Session on 'Vedic Mathematics'
Date/Duration	08th November 2025 (Session from 11.00 a.m. to 12.30 p.m.)
Venue	St. Thomas Higher Secondary School, Aldona
Name of organizing Department/Cell	MoU between Village Panchayat, Aldona & St. Xavier's College, Mapusa St. Xavier's College, Mapusa, Goa, Centre for Indian Knowledge Systems
In collaboration with	
Name/s of Faculty Coordinator	Dr. Maria Claudette Gomes
Stratum of Event	State Level/ Community Level
Name & details of Resource Person/s (If any)	Mr. Soham Ashvenkar, Assistant Professor, Department of Mathematics, St. Xavier's College, Mapusa, Goa
Report	Objective: To demonstrate how Vedic Mathematics transforms complex operations into simple, fast, and intuitive calculations. The presentation outlined the history of Vedic Mathematics, which originates from the ancient Sanskrit texts known as the Vedas. Several techniques demonstrating simplicity over traditional, time-consuming methods were presented to the students: Sutra 1: Ekadhikena Purvena ("By one more than the one before"): This principle was used for specific multiplication cases, such as when the tens digits are the same and the ones digits sum to 10 (e.g., 74 x 76). It demonstrated a one-line calculation for solving problems like 9997 x 9993 to yield 99900021. It also provided a simple method for squaring any number ending in 5 (e.g., 995^2 = 990025). Sutra 2: Nikhilam Navatascaramam Dasatah ("All From 9 and the Last From 10"): This efficient, two-step method was used for multiplying numbers by a series of 9s. This technique allowed the audience to see the solution to the Grand Challenge: 48649673 x 99999999, resulting in the 16-digit answer 4864967251350327, calculated mentally in seconds. Concepts briefly covered included finding complements, the general multiplication sutra Urdhva-Tiryagbhyam ("Vertically and Cross-wise"), and pattern-based methods for finding cube roots. In the QnA session the students were able to successfully answer all questions posed by the speaker using the quick calculation tricks demonstrated during the talk.

Brochure/Poster	https://xavierscollegegoa.ac.in/wp-content/uploads/2025/12/Brochure-16.pdf
Photographs	https://xavierscollegegoa.ac.in/wp-content/uploads/2025/12/1pic.pdf
List of participants With signatures	https://xavierscollegegoa.ac.in/wp-content/uploads/2025/12/Registration-pg1.pdf
Certificate	--