



DCT's
Dhempe College of Arts and Science
Miramar, Goa
Department of Mathematics
Department Activity under DBT Star Scheme

Report on Outreach Activity under DBT–STAR College Scheme

Teaching Vedic Mathematics in Schools

The Department of Mathematics conducted an outreach programme under the **DBT–STAR College Scheme** with the objective of promoting **Vedic Mathematics** among high school and higher secondary students while providing experiential learning and research exposure to **TYB.Sc. Mathematics** students.

The outreach activities were carried out at the following institutions:

Vaddem Nagar High School, New Vaddem	15/11/2025
Vidya Mandir Secondary School, Adarsh Nagar, Chicalim, Goa	28/11/2025 & 01/12/2025
Deepvihar Higher Secondary School, Vasco, Goa	22/11/2025 & 29/11/2025
Brahmadurga High School	30/12/2025

TYB.Sc. students conducted interactive sessions on selected **Vedic Mathematics sutras**, focusing on mental calculation techniques, speed, accuracy, and logical reasoning. To evaluate learning outcomes, **pre-tests and post-tests** were administered to participating students. The assessment results indicated a noticeable improvement in understanding and problem-solving ability.

The data collected through these evaluations was analyzed by TYB.Sc. students as part of their **academic project work**, enabling them to apply research and analytical skills. As an outcome of this initiative, **Ms. Ambika Naik Parvatkar**, along with students **Ms. Rani, Mr. Maheshwar, and Mr. Vishant**, presented a research paper titled “*Evaluating the Impact of Vedic Mathematics on Student Performance: A Multi-Level Study Through the Lens of India’s Knowledge Systems*” at a **National Conference held at GSCERT, Goa, on December 16–17, 2025**.

The outreach programme and research work were guided by **Ms. Ambika Naik Parvatkar** and **Mrs. Rashmi Naik**. The activity successfully integrated community outreach, student engagement, and research, demonstrating the academic and societal impact of the DBT–STAR College Scheme.

