



DCT's

Dhempe College of Arts and Science

Miramar, Goa

Department of Mathematics

Department Activity under DBT Star Scheme

Report on Mathematica 4.0

The Department of Mathematics successfully organized **Mathematica 4.0**, an inter-institutional mathematical event, with the objective of fostering interest in mathematics through engaging, activity-based learning. The event was conducted under the guidance and supervision of **Mrs. Maria Suzana Miranda**, Head of the Department of Mathematics. The planning, coordination, and execution of the entire event were efficiently handled by the **FYBSc, SYBSc, and TYBSc Mathematics students**, demonstrating commendable teamwork and leadership.

The event witnessed enthusiastic participation from **various Higher Secondary Schools**, providing students with a platform to explore mathematical concepts beyond the classroom in an interactive and enjoyable manner

Workstation Activities

One of the highlights of *Mathematica 4.0* was the **Workstation Session** (10:30 am–11:30 am), where participants rotated through activity-based learning stations such as Sudoku, Magic Squares, Tangram, 3D Shapes, Soma Cube, Pentominoes, Tower of Hanoi, Fraction Strips, and other logical puzzles. These stations were efficiently managed by student volunteers who guided and assisted participants throughout.

This was followed by a **Mathematics Quiz** (11:30 am–12:30 pm) and a **Reel Display** showcasing creative mathematical content. In the afternoon, a **Board Game Session** (2:00 pm–3:00 pm) further engaged participants through strategy-based activities.

The programme concluded with the **Results and Prize Distribution Ceremony** (3:00 pm–3:30 pm), followed by refreshments, marking a successful and enjoyable end to the event.

Conclusion

Mathematica 4.0 was a resounding success and served as an outreach activity of the Department of Mathematics under the DBT STAR College Scheme, effectively promoting mathematical curiosity and experiential learning among Higher Secondary students.

Maria Suzana Miranda
HOD
Department of Mathematics

15th January 2026

To
The Principal
DCT's Dhempe College of Arts and Science
Miramar Goa

**Subject: Submission of Expenditure Incurred – Mathematica 4.0 under DBT Star
College Scheme**

Respected Sir,

I hereby submit the details of **expenditure incurred** for **Mathematica 4.0**, held on **7th January 2026**, along with the **detailed expenditure statement table and supporting bills** for your kind perusal and necessary approval.

I kindly request you to please process the same at the earliest.

Thanking you.

Yours sincerely,

Maria Suzana Miranda

| Sr No | Particulars of Expenditure | Amount | Pay to |
|-------|----------------------------|--------------|------------------------------------|
| 1 | Refreshment | 13500 | Prasad M Prabhu |
| 2 | Certificates printing | 1300 | Shree Krishna Stationery and Xerox |
| 3 | Trophies | 2200 | Angleys |
| 4 | Stationary | 1879 | Mrs Maria Suzana Miranda |
| 5 | Miscellaneous | 859 | |
| 6 | Flowers | 120 | |
| | TOTAL | 19858 | |