

Mathematics Enrichment Training Program

(December 23-29,2025)

The Department of Mathematics under the aegis of DBT Star Status Scheme organized seven days online Mathematics Enrichment Training Program for students of B.Sc.(H) Maths, B.Sc. (Non Medical) and M.Sc.Mathematics from December 23-29,2025. A total of 80 students participated in the program. This Program was set to develop Mathematical thinking instead of learning or cramming mathematical concepts. This program was mainly focussed on foundational topics of mathematics and to create interests of students in pure mathematics. The resource persons for this seven days programme were Dr. Sunil Kumar, Dr. Rohit Gandhi, Dr. Gaurav Sharma and Dr. Sangeet Kumar. The programme was conducted through Googlemeet. The students were able to learn various topics of mathematics with deeper conceptual understanding, improved problem solving skills and critical aptitude towards mathematics.

The image displays two screenshots of a Google Meet session, likely from the Mathematics Enrichment Training Program. Both screenshots show a presentation window on the left and a grid of participants on the right.

Top Screenshot: The presentation is by Dr. Gaurav Sharma. The content on the screen includes:

- Range of $\cos x$:
- 1) $x_n = (-1)^n$, $(x_n) = (-1, 1, -1, 1, \dots)$
 $\text{Range} = \{-1, 1\}$
- 2) $x_n \in \mathbb{N} \rightarrow \mathbb{R}$ as x_n : Remainder when n is divided by 5
 $x_n = (1, 2, 3, 4, 0, 1, 2, \dots)$

Bottom Screenshot: The presentation is by Dr. Sunil Kumar Sharma. The content on the screen includes:

- $2x - y = 4$ and $2x - y = 0$ are boxed together, with $S = S_0 + u$ written next to them.
- $S_0 = \{3(1, 2) \mid 1 \in \mathbb{R}\}$
- $ax + by = c$ and $ax + by = 0$ are written, with $S = u + S_0$ and $u \in S$ below them.
- $A = B$ iff $A \subseteq B$ and $B \subseteq A$
- $S = u + S_0$ iff $S \subseteq u + S_0$ and $u + S_0 \subseteq S$
- $u + S_0 \subseteq S$

Both screenshots show a Google Meet interface with a grid of participants on the right, including Dr. Gaurav Sharma, Dr. Sunil Kumar Sharma, and others. The bottom status bar shows the time as 12:40 PM and 12:20 PM, and the weather as Mostly cloudy and Mostly sunny.