



ST. XAVIER'S COLLEGE, MAPUSA GOA

Report of Activity conducted in the Academic Year 2024-25

Name of Activity	Guest Lecture on "Teaching Mathematics with a Difference"
Date/ Duration	01 day, 31 st August 2024, 10:45 am – 12:45 pm
Venue	Room No. 204, St. Xavier's College, Mapusa – Goa
Name of organizing Department/Cell	Department of Mathematics
In collaboration with	
Name/s of Faculty Co ordinator	Dr. B. C. Nair
Stratum of Event	College
Name & details of Resource Person/s if any	Mr. Subodh S. Haldankar Assistant Professor Nirmala Institute of Education Panaji – Goa
Report	<p>A guest lecture on "Teaching Mathematics with a Difference" was conducted to explore innovative teaching methods and models that can make mathematics more engaging and effective for students. The session focused on practical techniques, including Edgar Dale's Cone of Experience, the 5E model of teaching, and various interactive and student-centered approaches to learning.</p> <p>Objectives:</p> <ol style="list-style-type: none">1. To introduce educators to innovative and effective teaching methods for mathematics.2. To explore the use of Edgar Dale's Cone of Experience to enhance conceptual understanding.3. To demonstrate the 5E method (Engage, Explore, Explain, Elaborate, Evaluate) as a tool for creating interactive and student-focused lessons.4. To equip educators with practical strategies to make abstract mathematical concepts accessible and engaging.5. To highlight the importance of experiential and multimodal learning in mathematics education.

	<p>Description:</p> <p>The lecture began with the Head, Department of Mathematics, St. Xavier’s College, Goa, Dr. B. C. Nair formally welcoming the gathering and introducing the speaker. Ms. Sejal Chopdekar presented the resource person with a potted plant. The resource person began with an introduction to the need for innovative teaching approaches in mathematics to address the challenges faced by students in understanding abstract concepts. Emphasis was placed on Edgar Dale's Cone of Experience, which categorizes learning experiences from direct, hands-on activities to abstract, symbolic learning, highlighting the importance of using a mix of experiential and theoretical methods.</p> <p>The 5E model of teaching was also discussed, illustrating how to structure lessons to maximize student engagement and understanding. Each phase of the model—Engage, Explore, Explain, Elaborate, and Evaluate—was explained with examples relevant to mathematical topics, showing how these steps can be applied to create dynamic and effective lessons.</p> <p>A highly engaging and interactive session showed how much the participants enjoyed and got enriched by the session. Several participants extended the words of gratitude during the feedback. The vote of thanks was proposed by Asst. Prof. Ms. Jovita Rodrigues and the program was compered by Dr. Jervin Zen Lobo. Participants were served refreshments.</p> <p>Outcomes:</p> <ol style="list-style-type: none"> 1. Participants gained insights into modern pedagogical techniques for teaching mathematics. 2. Educators learned how to apply Edgar Dale’s Cone of Experience and the 5E model to enhance their teaching. 3. Attendees were equipped with practical tools to create more interactive and engaging mathematics lessons. 4. The lecture fostered a deeper understanding of how to make mathematics more accessible, relatable, and enjoyable for students. <p>Beneficiaries:</p> <p>Students of FY/SY/TY Mathematics.</p>
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Photographs	https://xavierscollegegoa.ac.in/wp-content/uploads/2024/09/Photos_Guest_Lecture_maths_dept_sxc_2024.pdf
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