



ATHARVA EDUCATIONAL TRUST'S
ATHARVA COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by Government of Maharashtra
& Affiliated to University of Mumbai - Estd. 1999 - 2000)
ISO 2100:2018 ISO 14001:2015 ISO 9001:2015
NAAC Accredited A+

ACE/SEMINAR/HAS/FR- 32/2024-25

DATE: 30th September 2024

“Exploring the power of Calculus”

Date:	30.09.2024
Time:	11:00 am to 12:00 pm
Venue:	3rd Floor Classroomsm, Phase 1
No. of students attended:	299
Speaker:	Dr. Khinal Parmar
Coordinator:	Dr. Abhilasha Saini, Dr. Priyanka Badani

Objective:

- To illustrate the real-world applications of calculus in various fields such as physics, engineering, economics, and biology, helping students appreciate its relevance and importance.
- To stimulate curiosity and enthusiasm for calculus among students by showcasing its beauty and power through engaging examples and innovative problem-solving techniques.
- To promote analytical thinking by presenting complex calculus concepts in an accessible way, encouraging students to tackle challenging problems and develop a deeper understanding of mathematical principles

Outcome:

- Students demonstrate a heightened interest in calculus and related subjects, leading to greater participation in class discussions and a willingness to explore advanced topics.
- Participants gain a clearer understanding of key calculus concepts and their applications, resulting in better performance in related coursework and assessments.
- Students and faculty establish connections with the guest speaker and other attendees, fostering collaboration and mentorship opportunities that extend beyond the lecture.



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Topics Covered:

- Exploring how calculus is used in various fields such as physics (motion and forces), engineering (design and optimization), and economics (maximizing profit and minimizing cost), highlighting its practical significance.
- Discussing key concepts like the Fundamental Theorem of Calculus, which connects differentiation and integration, and illustrating its importance in solving complex problems.
- Presenting unique methods and approaches to solving calculus problems, including graphical interpretations and numerical methods, to enhance students' analytical thinking and problem-solving skills.

Orientation Program Photographs:





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Dr. Abhilasha Saini
Dr. Priyanka Badani

Co-Coordinators

Dr. Ritu Sharma

Program Coordinator/HOD

- HAS



Dr. Ramesh Kulkarni

Principal