

MOMENTUM

DEPARTMENT OF MECHANICAL ENGINEERING

FROM HoD's DESK

VISION

To be a center of excellence in Mechanical Engineering by creating innovative and socially responsible technocrats to meet the global challenges.

MISSION

1. To provide qualitative technical knowledge in the domain of Mechanical Engineering to compete in the global scenario.
2. To nurture socially committed Mechanical Engineers through value based education.
3. To enhance the research ability of knowledge seekers for the changing needs of society.

It gives me immense pleasure to present the Department Newsletter, highlighting the academic, technical, professional, and co-curricular activities of the Department of Mechanical Engineering. During this period, the department organised several enriching programmes, including workshops on Fusion 360 and 3D Printing, industrial visits, technical talks, expert sessions, and project exhibitions. These initiatives provided students with valuable opportunities to connect classroom learning with practical industrial applications and to develop their technical, analytical, communication, and teamwork skills.

The department also placed significant emphasis on faculty development and professional enhancement. Faculty members actively participated in FDPs, STTPs, and training programmes in areas such as Industrial Safety Engineering, Mechanical Behaviour of Polymers and Composites, Smart Cities and Future Mobility, and Sustainable Energy Utilisation. Such initiatives have contributed to strengthening the academic capabilities of the faculty and enriching the teaching-learning environment within the department.

I sincerely appreciate the dedicated efforts of our faculty members, the enthusiasm and active participation of our students, and the continued support of the management and college administration. The achievements and activities recorded during this semester reflect our collective commitment to academic excellence, industry interaction, innovation, sustainability, and professional development. I am confident that the Department of Mechanical Engineering will continue to create meaningful opportunities for our students and faculty and progress towards greater academic and professional excellence..



Dr. Arun Jose.

PROGRAM EDUCATIONAL OBJECTIVES

Domain knowledge: Graduates will be able to solve the contemporary issues and challenges in mechanical engineering by applying their strong base in Mathematics, Science and Engineering.

Lifelong learning: Graduates shall have a passion to engage in lifelong learning process through self study,

continuing education and professional studies in engineering.

Creative skillset: Graduates will become an effective innovator, to address social, technical and business challenges by enhancing their technical competencies, communication skill and team spirit.

PROGRAM SPECIFIC OBJECTIVES

PSO 1: Able to identify, formulate design and analyze the contemporary challenges and engineering problems in the realm of Design, Industrial and Thermal sciences, utilizing latest technology.

PSO 2: Able to provide solutions by incorporating innovative ideas on product design and development to conquer the challenges in core mechanical sectors, business and other related fields.

DEPARTMENT ACTIVITIES

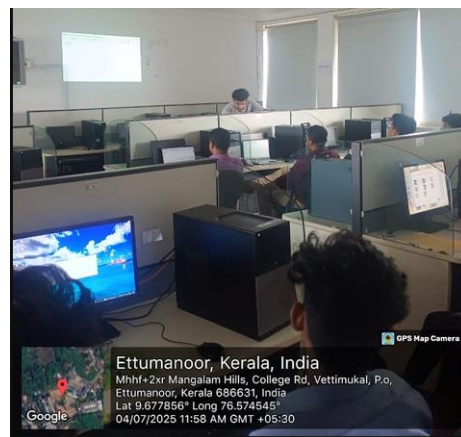
- 04–05 July 2025 – Two-Day Workshop on Computer-Aided Design and Manufacturing using Fusion 360. Resource Organisation: BIMIT / Autodesk
- 31 July 2025 – Industrial Visit to Toms Pipes
- 18 August 2025 – Hands-on Training on 3D Printing. Resource Person: Mr. Sreenath Polackal
- 19 August 2025 – SWOT Analysis and Ice-Breaking Session. Resource Person: Ms. Jincy Joseph
- 22 September 2025 – Technical Talk on Energy Audit. Resource Person: Prof. C. Thangavel, VMKV Salem
- 23 October 2025 – Project Exhibition
- 25 October 2025 – Expert Talk on Emerging Trends in Advanced Materials. Resource Person: Dr. Sourabh Kumar Soni

FACULTY ACHIEVEMENTS

- Mr. Rajeeve K Mohan: Participated in the 12-week programme on Industrial Safety Engineering, organised by IIT Kanpur (IITK).
- Dr. Manuel George: Participated in the 12-week programme on Mechanical Behaviour of Polymers and Composites, organised by IIT Madras (IITM).
- Mr. Johan George Cherian: Participated in the 6-day ATAL FDP on Smart Cities and Future Mobility: Technologies, Policies, and Practices, organised by Mar Baselios Christian College of Engineering & Technology.
- Mr. Premith S: Participated in the 6-day ATAL FDP on Energy Utilisation for Sustainability as a Solution for Climate Change, organised by Musaliar College of Engineering and Technology, Pathanamthitta.
- Mr. Navish Kumar: Participated in the 6-day ATAL FDP on Energy Utilisation for Sustainability as a Solution for Climate Change, organised by Musaliar College of Engineering and Technology, Pathanamthitta.

STUDENT ACHIEVEMENTS

- Students participated in the Industrial Visit to Toms Pipes, gaining practical exposure to industrial manufacturing processes.
- Students participated in Hands-on Training on 3D Printing, developing practical skills in additive manufacturing.
- Students participated in the SWOT Analysis and Ice-Breaking Session, enhancing communication, teamwork, and professional skills.
- Students participated in the Technical Talk on Energy Audit, gaining awareness of energy efficiency and industrial energy management.
- Students attended the Expert Talk on Emerging Trends in Advanced Materials, gaining exposure to contemporary developments in materials engineering.
- Students participated in the Project Exhibition, demonstrating their technical knowledge, creativity, innovation, teamwork, and problem-solving capabilities.



Two-Day Workshop on Computer-Aided Design and Manufacturing using Fusion 360. Resource Organisation: BIMIT / Autodesk



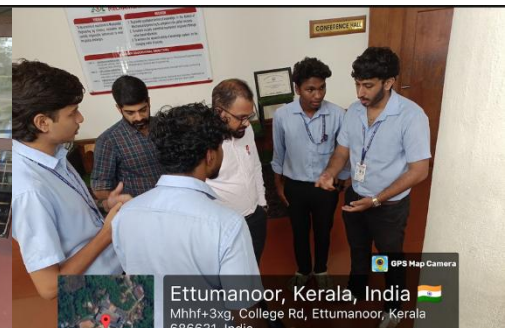
– Industrial Visit to Toms Pipes



Hands-on Training on 3D Printing.



SWOT Analysis and Ice-Breaking Session



PROJECT EXPO



Editorial

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