

DEPARTMENT OF MECHANICAL ENGINEERING (HALF YEARLY NEWSLETTER)



VISION OF THE INSTITUTE

Strive continuously for academic excellence by providing best contemporary, functional education and endeavoring to attain supreme engineering educational excellence, through sincerity of motive and focused efforts.

MISSION OF THE INSTITUTE

To prepare students to succeed in information-directed and technology-driven global economy to become global citizens through effective teaching and learning process with strong practical exposure.

VISION OF THE DEPARTMENT

To achieve the transcendence standard quality education in mechanical engineering with sound technical knowledge, practical skills and to develop the technocrats to cater the needs of socio-economical development of the country.

MISSION OF THE DEPARTMENT

M1: Facilitate budding mechanical engineers to learn with passion & gain sound technical knowledge and practical skills.

M2: Provide maximum exposure to interdisciplinary technologies such as Industry 4.0 and encourage innovation.

M3: Develop real world problem solving skills, entrepreneurship aptitude through industry-institute interactions and collaborative team activities.

ABOUT THIS ISSUE

Department of Mechanical Engineering, PIEMR is proud to announce the second issue of its periodical newsletter. This newsletter covers recent activities held within the department, research work and projects. It also highlights future events that are planned by the department.

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MESSAGE FROM DIRECTOR

Dr. Manojkumar Deshpande
Director
PIEMR, Indore

As we continue to push the boundaries of innovation, the Department of Mechanical Engineering remains committed to excellence in education and research. Our focus on interdisciplinary learning and cutting-edge technologies empowers students to face modern engineering challenges. I commend the efforts of our faculty and students in achieving remarkable milestones. Together, let us strive for even greater heights and make a lasting impact in the field of engineering.



MESSAGE FROM HEAD OF DEPARTMENT

Prof. Dharmesh Barodiya
HOD, Department of Mechanical Engineering
PIEMR, Indore

It is with immense pride that I present this edition of our department's newsletter. The Mechanical Engineering Department has been a cornerstone of innovation and knowledge dissemination. Our continued emphasis on academic rigor, skill development, and research excellence drives us forward. I urge students to leverage every opportunity for growth and learning. Let us uphold our tradition of excellence and keep making strides in engineering advancements.



COVER STORY

MECHANICAL ENGINEERING: THE BACKBONE OF INNOVATION AND INDUSTRY

Mechanical engineering is one of the oldest and broadest branches of engineering, playing a vital role in the design, development, and maintenance of machinery and mechanical systems. From simple tools to complex machines, mechanical engineers are the driving force behind much of the infrastructure and technology that powers our world.

At its core, mechanical engineering applies the principles of physics, mathematics, and material science to solve real-world problems. Whether it's designing fuel-efficient engines, developing advanced manufacturing systems, or working on cutting-edge robotics, mechanical engineers contribute to innovations that shape modern life.

This field offers a wide range of career opportunities across industries such as automotive, aerospace, energy, construction, and healthcare. With the growth of automation and Industry 4.0, mechanical engineers are increasingly working with smart technologies, CAD/CAM software, and additive manufacturing tools like 3D printing.

Mechanical engineering also emphasizes sustainability, aiming to create systems and products that are energy-efficient and environmentally friendly. Engineers in this field often collaborate with professionals from other disciplines to develop integrated solutions that address global challenges such as climate change and resource optimization.

For students and professionals alike, mechanical engineering fosters critical thinking, creativity, and a deep understanding of how things work. As technology evolves, so does the role of the mechanical engineer—blending traditional expertise with modern innovation to build a smarter, more efficient future.

ACTIVITIES AND RECENT EVENTS

INDUSTRY VISIT TO EICHER

Mechanical Engineering and Automation & Robotics Engineering students from Indore recently undertook an insightful industry visit to Eicher Motors' manufacturing plant in Pithampur, Madhya Pradesh. This visit provided a valuable opportunity to witness firsthand the advanced manufacturing processes involved in the production of commercial vehicles and engines.



INDUSTRY VISIT TO VE COMMERCIAL VEHICLES

Mechanical Engineering and Automation & Robotics Engineering students from Indore recently had the opportunity to visit the manufacturing plant of VE Commercial Vehicles Ltd. (VECV), a joint venture between Volvo Group and Eicher Motors. VECV is a prominent player in the Indian commercial vehicle industry, producing a wide range of Eicher branded trucks and buses, as well as Volvo buses and trucks for the Indian market. They are also a significant engine manufacturing and export hub for the Volvo Group.



STUDENT VIST TO AUTO SHOW

Mechanical Engineering and Automation & Robotics Engineering students from Indore recently broadened their horizons with an engaging visit to a prominent auto show. This provided a dynamic platform to witness the latest advancements and innovations shaping the automotive industry.

