

Student Activities

1. Arjun KM (S4 MTech-IAR) and Kishore V Gopal(S8ME_A) undergone a fully sponsored Internship at UiTM Malaysia.
2. SHONE TS, SANDEEP CP, PRANAV P UNNI, SIDHARTH R STUDENTS OF FINAL YEAR MECHANICAL ENGINEERING WON THE PRIZE IN THE INTERNAL PROJECT COMPETITION- YUKTHI'2024, HELD AT JECC .



DEPARTMENT OF MECHANICAL ENGINEERING

NEWS LETTER

Vision

To provide quality education of international standards in Mechanical Engineering and promote professionalism with ethical values, to work in a team and to face global challenges.

Mission

- To provide an education that builds a solid foundation in Mechanical Engineering.
- To prepare graduates for employment, higher education and enable a lifelong growth in their profession.
- To develop good communication, leadership and entrepreneurship skills to enable good knowledge transfer .
- To inculcate world class research program in Mechanical Engineering.

H.O.D's Desk



Mechanical engineering is the study of objects and systems in motion, one of the most diverse and versatile engineering fields. The role of a mechanical engineer is to take a product from an idea to the marketplace. The field of mechanical engineering touches virtually every aspect of life on earth, including the human body, a highly complex machine.

Department Achievements

1. Sixth semester students of Mechanical Engineering have undergone an industrial visit to Goa (SWMF Saligao) from 28/01/2025 - 01/02/2025.
2. Eighth semester students of Mechanical Engineering have undergone an industrial visit from 28/01/2025 - 01/02/2025.
3. ME department signed a MOU with NABARD for GI registration of products.
4. Karthavya 2.0 : 48 Hours National Level Hackathon was conducted by the Department of Mechanical Engineering & Civil Engineering on Feb 21-22-23, 2025. The programme Inaugurated by Hon. Chelakkara MLA, Mr. U R Pradeep and Mr. Asharaf(Hon. Block panjayath President, Pazhayannur) Ms. Maya Teacher (District Panchayath Member) Ms. Thankamma(Panajal Panjayath President) & more members attended the inuagural Session. During the Inauguration Honored the Haritha karma sena members of panjal Panjayath.
5. Department of Mechanical Engineering in association with NDLI Club, JECC & AMES&SaEIndia Conducted an expert talk on PLC: Unlocking the Basics of Automation on 08-03-2025 at ME Seminar Hall. Ms.Nyni KA, Assistant Professor, Department of Mechatronics Engineering was handled the Session.

Staff achievements

1. Mr. Nice Menacherry and Mr.Anto Zacharias applied foe a research funding on diaper waste management to NABARD.
3. Mr. Nice Menachery got AICTE-RPS fund of Rupees 20,92,500 for the project title “Machinability evaluation and wear behavior of hybrid Aluminum MMC reinforced with CNT and solid lubricants”.
5. An Expert talk on Geographical indication and Intellectual Property Rights was done on 06/03/2025
6. Department of Mechanical Engineering in association with NDLI Club, JECC & AMES&SaEIndia Conducted an expert talk on PLC: Unlocking the Basics of Automation on 08-03-2025 at ME Seminar Hall. Ms.Nyni KA, Assistant Professor, Department of Mechatronics Engineering was handled the Session.



PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO I: Graduate Engineers shall have strong practical and theoretical exposure in the field of Mechanical Engineering and will contribute to the society through innovation and enterprise.

PEO II: Graduate Engineers shall have global outlook and technological leadership, good employments or opt for higher studies/research and have creative thinking to initiate and develop innovative ideas.

PEO III: Graduate engineers shall have excellent team works, communication and interpersonal skills having high morales and ethical values.

PROGRAMME OUTCOMES (POs)

PO 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO 3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO 1: Graduates would be able to apply their knowledge in the domains of manufacturing, fluid and thermal sciences to solve engineering problems.

PSO 2: Graduates would be able to apply the principles of design and analysis on product design with the help of modern CAD/CAM tools.

PSO 3: Graduates would be able to apply the basic principles of engineering and management practices in various practical fields to engage themselves in research /Industry/Society.