

## Student Activities

1. Mr. Gawtham and Mr. Ihshan did 5 day internship at Keerthi Agro Rice Mill, Kalady.
2. Mr. Jobin doing month intership at Oushadi, Kuttanellur.
3. Ms. Mariya Shobby got placement in Axis Global Automation.
4. Mr. Melvin Mathew got placement in Axis Global Automation.
5. Google meet with Mr. Sebin Antony DDM Nabard about project fund for GI tag registration of products
6. On April 6, 2024, the S7 Mechanical Engineering students from JYOTHI ENGINEERING COLLEGE conducted an industrial visit to the Induscan Petroleum Institute in Nilambur. The visit aimed to provide practical insights into the petroleum industry and explore career opportunities for mechanical engineers. Accompanying the students were three faculty members: Dr. Biju P. L., Mr. Suneeth Sukumaran, and Mr. Thomas Joseph.
7. Industrial Visit to Central Institute of Plastics Engineering & Technology, Lakkidi Students :- S3 ME - 50 Students Faculty :- 4



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**Jyothi Engineering College**  
NAAC Accredited College with NBA Accredited Programmes\*  
 Approved by AICTE & affiliated to APJ Abdul Kalam Technological University  
 A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR  
 JYOTHI HILLS, VETIKATTIRI P.O., CHERUTHURUTHY, THRISSUR, PIN-679531 PH : +91- 4884-259000, 274423 FAX : 04884-274777  
NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programmes in Civil Engineering valid for the academic years 2019-2022.

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. In association with AUTODESK, SAE India Mechanical Engineering Department Organised Faculty Development Programme (FDP) in Fusion 360 on the topic Part Modelling and Assembly.
2. Robotic welding and additive manufacturing (AM) are technologies that combine to create 3D metal parts. Robotic welding is used to deposit layers of metal onto a part, while AM is the industrial term for 3D printing.
3. Robotic welding and additive manufacturing (AM) are technologies that combine to create 3D metal parts. Robotic welding is used to deposit layers of metal onto a part, while AM is the industrial term for 3D printing. by KPR Institute of Engg and Technology by Dr. B Arulmurugan and Dr. S Dharanikumar.
4. REVOQ Moto Show as a part of Tharang 2024 on 02/022024.
5. On September 6, 2024, the S7 Mechanical Engineering students from JYOTHI ENGINEERING COLLEGE conducted an industrial visit to the Induscan Petroleum Institute in Nilambur. The visit aimed to provide practical insights into the petroleum industry and explore career opportunities for mechanical engineers. Accompanying the students were three faculty members: Dr. Biju P. L., Mr. Suneeth Sukumaran, and Mr. Thomas Joseph.

## Staff achievements

1. Mr. Nice Menachery presented paper at International Conference on Advancements in Materials and Manufacturing 2024 (ICAAMM-2024), conducted by MLR Institute of Technology, Hyderabad (Online mode) & secured best paper award.
2. Mr. Christy V Vazhappilly, Mr. Melvinraj C R, Mr. Nice Menachery, Mr. Sukesh O P, Mr. Sathya dev D Participated in all India inter collegiate Professor's cricket tournament conducting from 05/02/2024 at Federal Institute of Science and Technology (FISAT), Angamaly.
3. Mr. Nice Menachery presented paper at SERB sponsored International Conference on Recent Advancements in Materials Science and Technology, conducted by Karpagam Academy of Higher Education.



## 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.