

Student Activities

1. Mr. Sreerag Vinoth of S7MEB got placement in TCS (Tata Consultancy Service)
2. 17 students of S6 ME-A attended 7 days Internship at TORC INFOTECH, KOCHI from March 30 - April 5, 2021.
3. 2 students of S6 ME B attended 5 days internship at SIFL Athani, Thrissur March 22-27, 2021
4. Soorej S, S4 ME(2019-23) got appreciation from Asia Book of record for his work titled “Grand Master”, for making the portrait of an Indian actor using 346 names of his movies.
5. 15 students of S6 ME-A attended 7 days internship at “SEA BLUE SHIP-YARD LTD., VYPIN, KOCHI” from April 7-14, 2021
6. 10 students of S6 ME-B attended Internship at Decibal NDT Institute, Pattambi, from April 19- 23, 2021.
7. 20 students of S6 ME-B attended Internship at SEA BLUE SHIPYARD LTD., VYPIN, KOCHI from April 19- 23, 2021.
8. 8 students of S6 ME-B attended a 7 days internship on “Non Destructive Testing” at “Gold Mine Global Delivery Services, Kannur” from April 7 -13, 2021.
9. Mr. Gokul Krishna, S6ME(A) participated in the Eduabrica Agriculture Test Series organised by Elan Nivision in association with IIT Hyderabad.
10. Mr. Avin K. Thomas, S6ME(A) completed MOOC course (non-credit) on Wind Energy offered by Technical University of Denmark through Coursera on May 20, 2021.
11. **S7 ME - Batch(Toppers)**



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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 Programme in Civil Engineering valid for the academic years 2019-2022.

DEPARTMENT OF MECHANICAL ENGINEERING

Volume X, Issue I

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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. The Department of Mechanical Engineering, in association with SAEINDIA Collegiate club & Association of Mechanical Engg. Students (AMES) of Jyothi Engineering College organized a webinar on “**Computational Fluid Dynamics An Overview And A Case Study In Internal Ballistics**” conducted on, 07/01/2021 at 2.30pm. The session handled by Mr. Lippin Pauly, Research Scholar, Politecnico Di Torino, Italy.



2. Department of Mechanical and Civil Engineering, Jyothi Engineering College is organising International Conference on Energy and Environment (ICEE 2021) during April 09-10, 2021.



Staff achievements

1. Mr. Anto Zacharias [AP-ME] Coordinated a webinar on “Computational Fluid Dynamics An Overview And A Case Study In Internal Ballistics ” on 07/01/2021. Organized by the Department of Mechanical Engineering in association with SAEINDIA Collegiate club & Association of Mechanical Engg. Students (AMES) of Jyothi Engineering College.
2. Mr. Sukesh O P, Ms. Nisha Sherief, Mr. Nice Menachery, Dr. Deepanraj B participated in the 31st Annual State Faculty Convention of the ISTE Kerala Section, on “Opportunities and Challenges in Technical Education in the Post -COVID Scenario” organized by Mar Baselios College of Engineering and Technology, on 23 January 2021.
3. Dr. Deepanraj B participated in the TEQIP Sponsored Five Days online Faculty Development Program on “Design of Experiments Using Taguchi Technique” on 26-30 January 2021 organised by Rajasthan Technical University, Kota.
4. Mr. Christy V Vazhappilly participated in Five days FDP on Welding Technology organised by Sri Sairam Engineering College, Chennai.
5. Mr. Cijil B. John attended AICTE Training and Learning Academy (ATAL) Online FDP on “Electric Vehicles”, at College of Engineering, Cherthala from January 18-22, 2021.
6. Mr. Cijil B. John & Dr. Deepanraj B. published a paper - “Palm Stearin bio diesel: preparation, characterization using spectrometric techniques and the assessment of fuel properties” in Biomass Conversion and Biorefinery - an SCI indexed journal by Springer.

Virtual labs of Jyothi Engineering College in association with SOLVE: The Virtual Lab @ NITK is conducted a Faculty training on Virtual Labs (online mode) coordinated by Virtual Lab Nodal Coordinator Mr. Christy V Vazhappilly.

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.

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