

Student Activities

1. The techno cultural fest (Tharang' 22) was conducted on April 29 and 30th 2022. Apart from the main events, our department conducted various events and competitions for the students. Some of them are listed below.

GATVARA (MOTO EXPO) -2022	Mr. Cijil B John	Abin Martin , Muhammed	29th April, 9:45AM-4:00PM
BIKE STUNT	Mr. Hareesh N V	Hariprasad U Varma, Deekshid	30th April, 9:45 AM-11:30AM
PANDORA (Every moment is an experience)	Mr. Suneeth Sukumaran	Melvin Pauly, Alan Reji	29th April, 10.00 AM - 4.00 PM
ZORB SUMO FIGHT	Dr Lawrence C A	Abhinav krishna U N, Sayooj C S	29th April , 10.00 AM - 4.00 PM,
Brahmastra (Arms and Ammunition expo IRB)	Mr. Manoj kumar V K	Jerry Mathew Kurian, S Sreerag	29th April, 9.30 AM - 4.00 PM
AUTO CAD WORKSHOP	Dr. Anand Krishnan	Jipin prakash, Reshma	30th April, 10.30 AM-1.30 PM

2. The main attractions of the department event were Gatvara (Moto Expo), Bike stunt and Pandora.



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

DEPARTMENT OF MECHANICAL ENGINEERING
NEWS LETTER

Volume XI, Issue I

January– June 2022

01

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.

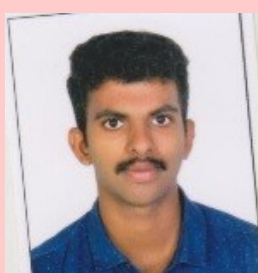
H.O.D's Desk



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. Mr. Arjun K S, Mr. Avin K Thomas, Mr. Jipin Prakash and Mr. Shibin Balachandran are placed in TCS.
2. Mr. Hariharan, Mr. Jerry Mathew Kurian, Mr. Prajil T P and Mr. Sreerag S Menon are placed in Byju's.
3. Mr. Gokul Krishna and Mr. Prajil T P are placed in Speridian Technologies.
4. Mr. Muhammed Aqeel and Ms. Reshma Unnikrishnan are placed in CTS.
5. Mr. Shijo Scaria, Mr. Sujith C P, Ms. Swetha S and Mr. Vivek V K are placed in Sutherland.
6. Mr. Shine Sunny is placed in Capgemini.
7. Mr. Vysakh R is placed in Infosys.



Staff achievements

1. Dr. S Krishnanunni is awarded PhD for the thesis titled "*Heat Treatment and Corrosion Studies on Aluminium Alloy AA7010 for Aerospace Applications*" from Cochin University of Science and Technology in April 2022.
2. Dr. Cijil B John is awarded PhD for the thesis titled "*Effect of compression ratio and injection pressure on the operating characteristics of a direct injection compression ignition engine using bio diesel fuels*" from Karunya Institute of Technology and Sciences (Deemed to be University) in April 2022.
3. Dr. Deepanraj B published 9 papers in various Journals (SCIE) during January to June 2022.
4. Mr. Nice Menachery and Dr. Deepanraj B 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. Dr. Biju C V delivered a talk on "Dynamic Analysis of Mechanical Structures" organized by the NDLI Club of Jyothi Engineering College & SAEINDIA.

Date & time:- Monday 23rd May 2022 from 11 Am to 11.45 AM.



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.

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.

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