

Jan-June 2023



**MANGALAM
COLLEGE OF ENGINEERING**



DEPARTMENT NEWSLETTER

Momentum

DEPARTMENT OF MECHANICAL ENGINEERING

VISION

To be a center of excellence in Mechanical Engineering by creating innovative and socially responsible technocrats to meet the global challenges.

MISSION

1. To provide qualitative technical knowledge in the domain of Mechanical Engineering to compete in the global scenario.
2. To nurture socially committed Mechanical Engineers through value based education.
3. To enhance the research ability of knowledge seekers for the changing needs of society.

From HoD's Desk

*Dear Students and Esteemed Colleagues,
I am thrilled to share some fantastic news with all of you. It brings me immense pride and joy to announce that our Mechanical Department, alongside several other engineering disciplines, has achieved remarkable accreditation milestones.*

Recently, the National Assessment and Accreditation Council (NAAC) awarded us an A-grade accreditation, which reflects our commitment to maintaining high academic standards and fostering a culture of excellence. This recognition is a testament to the tireless efforts of our faculty, staff, and students who have consistently worked to make our department one of the best in the state.

Furthermore, Along with our Mechanical Engineering program, Electronics and Communication Engineering, Civil Engineering, Computer Science and Engineering, have received accreditation from the National Board of Accreditation (NBA). This achievement highlights our dedication to delivering top-notch education and maintaining rigorous standards in these disciplines.

These accolades are the result of collective teamwork, relentless dedication, and unwavering commitment to quality education and research. As the Head of the Mechanical Department, I want to express my deepest appreciation to every member of our department, students & parents for their invaluable contributions to this success.

These accreditations are a testament to our potential and a stepping stone towards even greater accomplishments. As we move forward, let us continue to raise the bar, push the boundaries of knowledge, and inspire the next generation of engineers.



Sincerely,

Dr. Pratheesh K

Department Activities

- NAAC peer team Visit on 03/01/2023 and 04/01/2023
 - College Accredited with NAAC 'A' grade
- NBA peer team visit from 24.03.2023 to 26.03.2023
 - Mechanical Engineering Program accredited with NBA valid upto 30/06/2023.
- IInd International Conference on Advances in Mechanical Engineering: Transcending Boundaries, ICAMET-2023 was conducted on 26 & 27 May, 2023
- Department Fest Torque 11 was conducted on 26/04/23
 - Events conducted Engine Assembly, Cricket tournament, Project Expo, Auto Expo, MTB Stunt
- Expert talk on Energy Auditing by Prof.C.Thangavel was conducted on 05.05.2023
- Expert talk on Synthesis and Characterization of Composite Materials by Dr. V V Manikandan, Postdoctoral Researcher, School of Minerals Metallurgy and Materials Engineering, Indian Institute of Technology Bhubaneswar was conducted on 09.05.2023
- Expert talk on Basics of Water Supply Schemes by Dr. Favas T K, Assistant Professor, Department of Ship Technology, Cochin University of Science and Technology was conducted on 10.05.2023.
- Expert talk on Introduction to Quality Management in Software Development Industry by Mr. Sreejith P C, IT Service Manager, Services, EY GDS, Trivandrum was conducted on 10. 05. 2023
- Expert talk on Heat Transfer in solar thermal systems by Dr. Jinshah B S, Assistant Professor in Mechanical Engineering Department at Amal Jyothi College of Engineering, Kanjirappally was conducted on 11.05.2023.
- Expert Talk on Motivational theories in Management by Dr. Tony P Jose, Associate Professor, VIT Vellore was conducted on 26.05.23.
- Expert talk on Introduction to Magnetorheological Fluids by Mr.Prakash T, Research Scholar, NIT, Calicut was conducted on 17.06.23

PROGRAM EDUCATIONAL OBJECTIVES

Domain knowledge: Graduates will be able to solve the contemporary issues and challenges in mechanical engineering by applying their strong base in Mathematics, Science and Engineering.

Lifelong learning: Graduates shall have a passion to engage in lifelong learning process through self study, continuing education and professional studies in engineering.

Creative skillset: Graduates will become an effective innovator, to address social, technical and business challenges by enhancing their technical competencies, communication skill and team spirit.

PROGRAM SPECIFIC OBJECTIVES

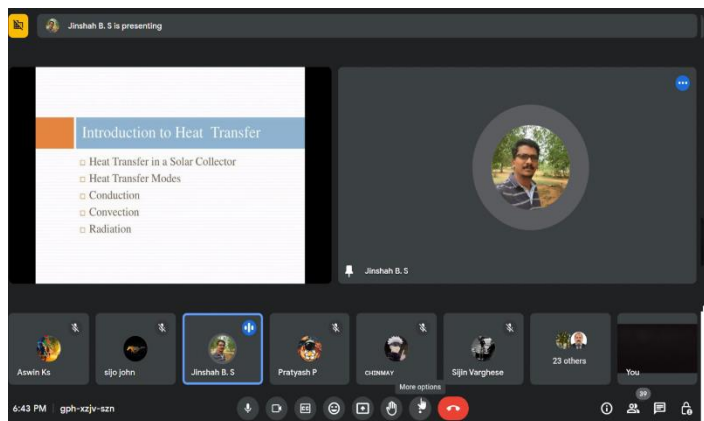
PSO 1: Able to identify, formulate design and analyze the contemporary challenges and engineering problems in the realm of Design, Industrial and Thermal sciences, utilizing latest technology.

PSO 2: Able to provide solutions by incorporating innovative ideas on product design and development to conquer the challenges in core Mechanical sectors, business and other related fields.

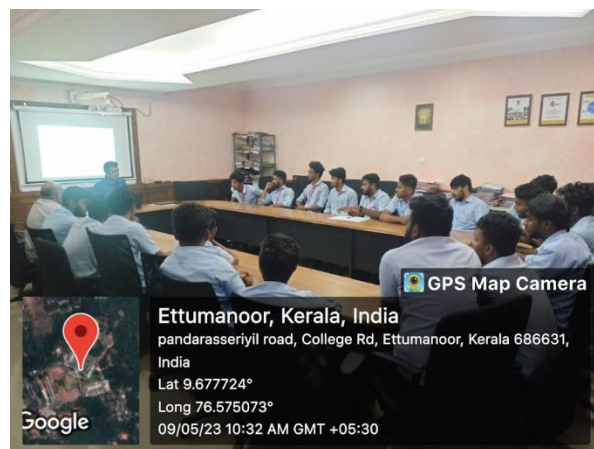
Faculty Corner

- Dr.Rabi.J,Johan George Cherian, Navish Kumar, Mr.Premjith S, Mr. Tony Mathew attended FDP on 'Crossdisciplinarity in Research' from 19/01/2023 to 24/01/2023. organised by Kerala State Higher Education Council : Faculty Training Centre
- Dr.Rabi.J, Dr.Bibin K S, Johan George Cherian, Santhu Varghese Thomas, Mr.Premjith S, Mr. Tony Mathew attended FDP on Research Opportunities and Futures of Additive Mnufacturing Engineering from 30/01/2023 to 03/02/2023 organised by Sri Manakula Vinayagar Engineering College,Puducherry
- Navish Kumar attended FDP on Emerging Trends in Additive Manufacturing Technology from 30/01/2023 to 03/02/2023 organised by Federal Institute of Science and Technology, Angamaly
- Mr. Tony Mathew attended FDP on Advancements in Mechanical Engineering from 19/6/2023 to 24/6/2023 organised by Lakireddy Bali Reddy College Of Engineering, Andra Pradesh
- Dr Manikandan H, Dona Thomas, Johan George Cherian attended FDP on Industry 4.0 The Future of Productivity and growth in Manufacturing Supply Chain from 24/04/2023 - 28/04/2023 organised by Sree Chitra Thirunal College of Engineering
- Rajeeve K Mohan attended FDP on Advancements in Mechanical Engineering from 19/6/2023 to 24/6/2023 organised by Lakireddy Bali Reddy College Of Engineering, Andra Pradesh
- Dr Manikandan H attended FDP on IC Engines and Gas Turbines from January 2023 - April 2023 organised by NPTEL
- Dr Manikandan H attended FDP on Emerging Trends in Additive Manufacturing Technology from 30/01/2023 to 03/02/2023 organised by Federal Institute of Science and Technology, Angamaly

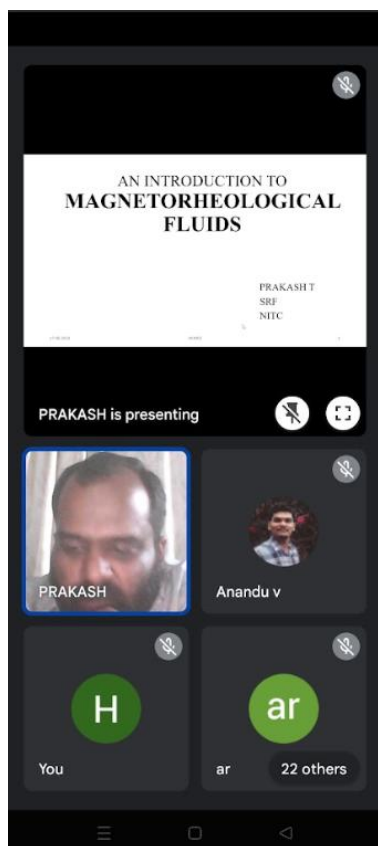
Gallery



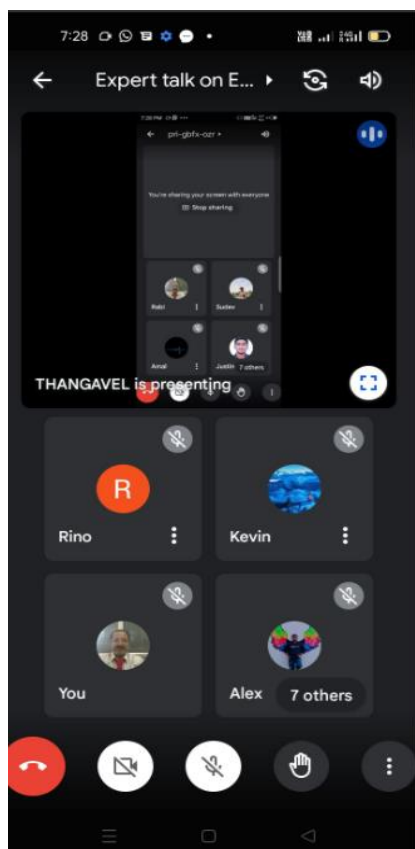
Expert Talk on “Heat Transfer In Solar Thermal Systems



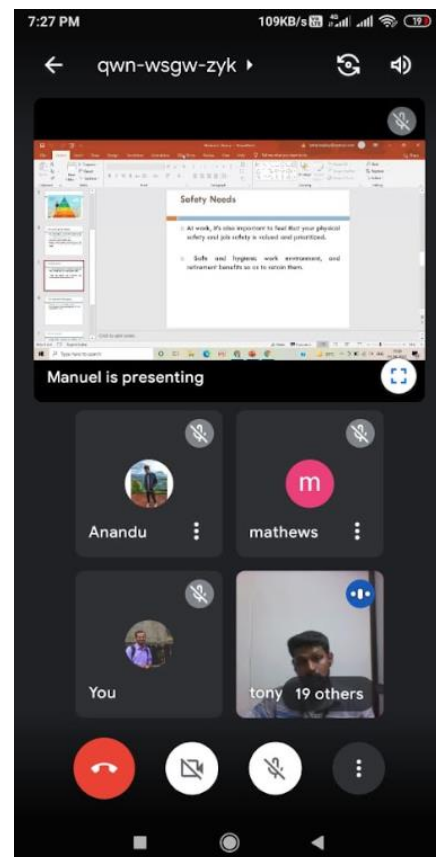
Expert talk on Synthesis and Characterization of Composite Materials



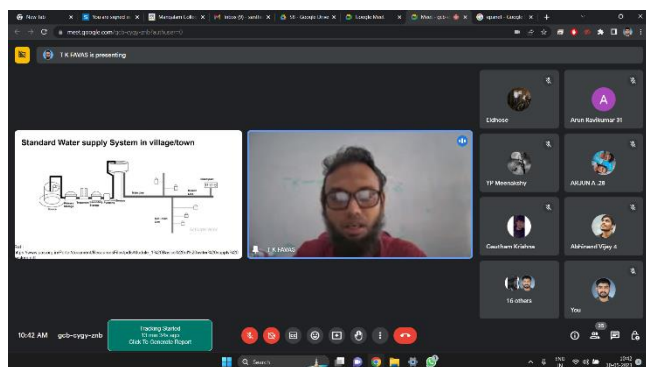
Expert talk on Introduction to Magnetorheological Fluids



Expert talk on Energy Auditing



Expert Talk on Motivational theories in Management



Expert talk on Basics of
Water Supply Schemes



Start up product launch of
JIVATVA APP



Glimpses of Torque 11

Students @Corner

- Start up product launch of JIVATVA APP founded by Adithya Shine & Aravind Shine of 2019-23 A Batch was done by Adv. K S Arun Kumar, Vice President, District Council for Child Welfare on 26 April 2023.
- Aswin Madhu of 2021-25 A batch won First Prize in Big Bash Cricket Tournament by MLMCE
- Akshay Mohan of 2021-25 A batch won First Prize in Big Bash Cricket Tournament by MLMCE
- Kiran Jose of 2021-25 A batch won Second Prize in Shot Put boys by MLMCE
- Adarsh M of 2021-25 A batch participated in Quiz Competition by IEEE
- Pratyash P Prakash of 2020-24 A batch participated in Article Writing (Malayalam) by MLMCE
- Pratyash P Prakash of 2020-24 A batch participated in TORQUE 11, National Level Techno Cultural Fest by MLMCE
- Adhul B of 2021-25 A batch participated in Theme Dance by MLMCE
- Abhishek D of 2021-25 A batch participated in TORQUE 11, National Level Techno Cultural Fest by MLMCE
- Adarsh M of 2021-25 A batch participated in Job Fair by MLMCE
- Adwaith Ajith of 2021-25 A batch participated in Theme Dance by MLMCE
- Adwaith K A of 2021-25 A batch participated in Maestro by Saint Gits
- Ajaygosh M S of 2021-25 A batch participated in TORQUE 11, National Level Techno Cultural Fest by MLMCE
- Akshay Mohan of 2021-25 A batch participated in Theme Dance by MLMCE
- Albin Biju of 2021-25 A batch participated in TORQUE 11, National Level Techno Cultural Fest by MLMCE
- Amal Jacob of 2021-25 A batch participated in Theme Dance by MLMCE
- Amal T R of 2021-25 A batch participated in Theme Dance by MLMCE
- Ambady Prasannan of 2021-25 A batch participated in Theme Dance by MLMCE
- Anandhu K S of 2021-25 A batch participated in Theme Dance by MLMCE
- Anantha Krishnan R of 2021-25 A batch participated in Theme Dance by MLMCE
- Aswin Madhu of 2021-25 A batch participated in Theme Dance by MLMCE

Our Toppers 2019-23



Famy Antony
CGPA: 8.74



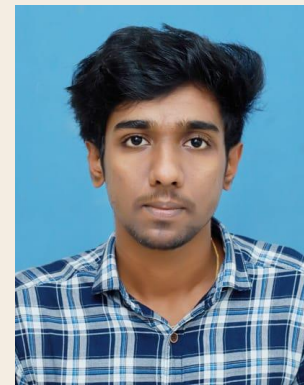
Arun V Madhu
CGPA: 8.49



Justin K Kurian
CGPA: 8.32

Students' Corner

- Arun Jayapalan of 2021-25 A batch participated in Theme Dance by MLMCE
- Anandu S of 2020-24 A batch attended 5 Internship at TECHMAGHI from 16/05/2023-20/05/2023
- Abhishek D of 2021-2025 A batch attended 15 Days Internship at CIPET from 01.05.2023-18.05.2023
- Adarsh M of 2021-2025 A batch attended 15 Days Internship at CIPET from 01.05.2023-18.05.2023
- Adwaith K A of 2021-2025 A batch attended 15 Days Internship at CIPET from 01.05.2023-18.05.2023
- Ajaygosh M S of 2021-2025 A batch attended 15 Days Internship at CIPET from 01.05.2023-18.05.2023
- Albin Biju of 2021-2025 A batch attended 15 Days Internship at CIPET from 01.05.2023-18.05.2023
- Amal T R of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23
- Anandha krishnan A B of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23
- Anandha krishnan P R of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23
- Anandhu V Pradeep of 2021-2025 A batch attended 15 Days Internship at CIPET from 01.05.2023-18.05.2023
- Anantha Krishnan R of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23
- Anin Joseph of 2021-2025 A batch attended 15 Days Internship at CIPET from 01.05.2023-18.05.2023
- Ansal P Haris of 2021-2025 A batch attended 15 Days Internship at CIPET from 01.05.2023-18.05.2023
- Ashish T A of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23
- Asif M S of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23
- Aswin P A of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23
- Kiran Jose of 2021-2025 A batch attended 15 Days Internship at CIPET from 01.05.2023-18.05.2023
- Prabhudev P of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23
- Safe R of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23
- Sanjai D of 2021-2025 A batch attended 5 Days Internship at KSRTC from 15/05/23-19/05/23



Athul V Prasannan
CGPA: 8.19



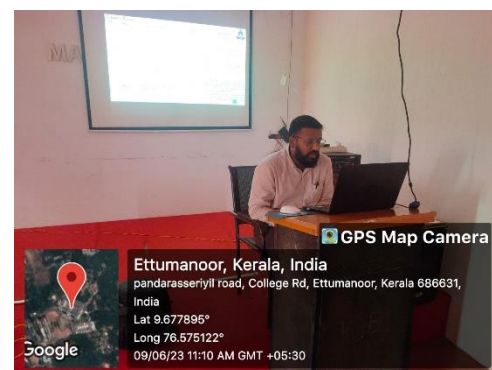
Jithin G Nair
CGPA: 8.04

Start up Founders of JIVATVA APP



Adithya Shine & Aravind
Shine 2019-23 Batch

IInd International Conference on Advances in Mechanical Engineering: Transcending Boundaries ICAMET-2023



Editorial

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Harishankar

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