

June-Dec 2022



**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 faculty members,

I hope this message finds you all in good health and high spirits as we begin the new year.

As we embark on a new semester, I wanted to take a moment to update you on the latest developments in the Mechanical Engineering Department at our college. Over the past year, we have been working hard to enhance our programs to prepare our students for the challenges of the rapidly evolving field of Mechanical Engineering.

Looking ahead, we are excited to continue building on these successes and to collaborate with our colleagues across the college and beyond to push the boundaries of what is possible in mechanical engineering.

Thank you for your continued support, and I wish you all the best for the upcoming semester.

Sincerely,

Dr. Pratheesh K



Department Activities

- S5 Students went for an industrial visit at Autocast Cherthala on 19/07/2022
- S3 students went for an Industrial Visit at Kamco Athany on 25/07/2022
- S7 students went for Industrial Visit at CIPET Palakkad on 29/07/2022
- S7 students visited MSME on 14/10/2022
- Industrial training at CIPET Palakkad for S5 students on 20, 21, 22/10/22.
- Course completion ceremony Lektus 2k22 was organised by college on 23/07/2022
- Onam Celebration was held at college on 03/09/2022.
- Annual Sports day was conducted at Pala Municipal Stadium organised by college on 27/10/2022.
- Induction Program Scientia 2k22 was held at Maman Mapillai hall Kottayam on 03/11/2022 organised by college.
- Webinar on Computer Vision Syndrome by Ms. Renjini Madavan, Optometrist, Sankara Netralaya, Chennai was held on 19/11/2022.
- Fifa World cup Hafla was conducted on 21/11/2022.
- Quiz competition on Football was organised by IEI on 25/11/2022.
- Final round of Quiz competition on football organised by IEI was held on 02/12/2022
- Expert talk on Social Marketing for sustainability by Dr. Suraj Kushe Shekhar Associate Professor Vellore Institute of Technology was held on 28/11/2022.
- Expert talk on Practical application of design by Donny Duglas Mechanical Engineer, Mills-Tui Toi Ohomai Institute of Technology New Zealand was held on 30/11/2022.
- Seminar on Becoming human by Rev. Dr. Mothy Varkey B.Sc. B.D. M.Th. D.Th. Professor, Mar Thoma Theological Seminary, Kottayam Faculty Fellow, Vanderbilt University, USA was held on 02/12/2022.

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.

Department Activities

- Expert talk on Awareness Program On Energy Conservation by Mr. Jose Philip Building Energy Efficiency Expert was held on 09/12/2022.
- Webinar for parents and other stakeholders on Sustainable living through energy saving by Mr. Sankaran Namboothiri, Energy Management Centre Resource Person & Certified Home Energy Assessor Category A, Asst. Professor, Division of Electrical and Electronics Engineering, Cochin University College of Engineering Kuttanad, Alappuzha was held on 10/12/2022.
- Workshop on NDT devices, advanced NDT & allied mechanical sector by Mr. Sivaprasad RS, MD, RIGZONE was organised on 12/12/2022.
- Expert talk on Balancing Of Rotating & Reciprocating Masses by Dr. P. Sellamuthu, Associate Professor, Department of Mechanical Engineering, Vinayaka Mission's KV Engineering College, Salem was held on 14/12/2022.
- 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 held on 14/12/2022.
- Expert talk on NEBOSH by Inspirit safety solutions was held on 15/12/2022.
- Expert talk on Air Conditioning & Thermal Comfort by Ms. Jeslu Celine Jacob, Prime Minister Research Fellow Doctoral Student Indian Institute of Technology Kharagpur was organised on 18/12/2022.
- Expert talk on 2D Elasticity problems by Mr. Jiyas N, Assistant Professor, Department of Mechanical Engineering, Government Engineering College, Barton Hill, Thiruvananthapuram was held on 21/12/2022.
- Workshop on fire safety & First aid by Ajithkumar CS, Fire & Rescue Officer, Fire & Rescue Station, Kottayam was held on 22/12/2022.



Industrial Visit at CIPET Palakkad



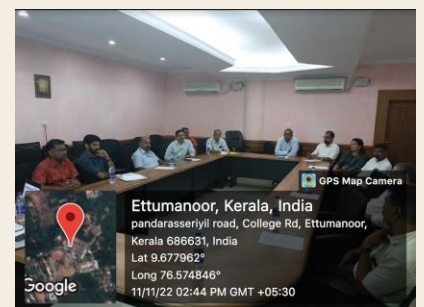
Industrial Visit at MSME



Industrial Visit at Autocast

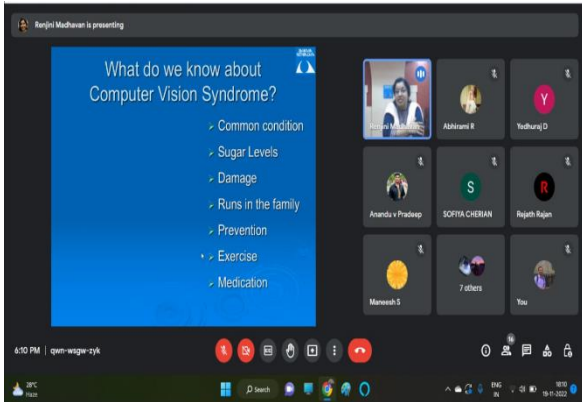


Industrial Visit at KAMCO



Department Advisory Committee Meeting

Gallery



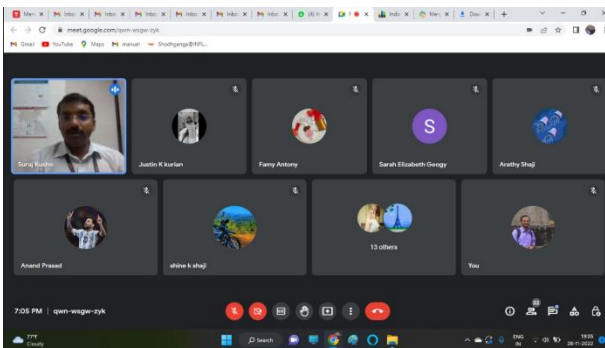
Webinar on Computer Vision Syndrome



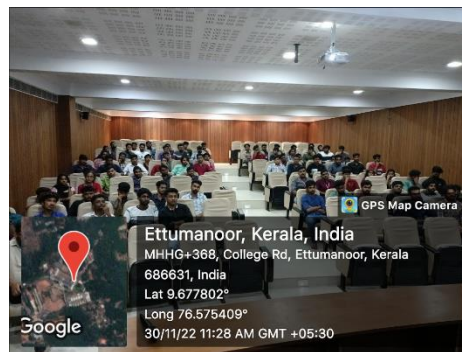
Quiz on Football



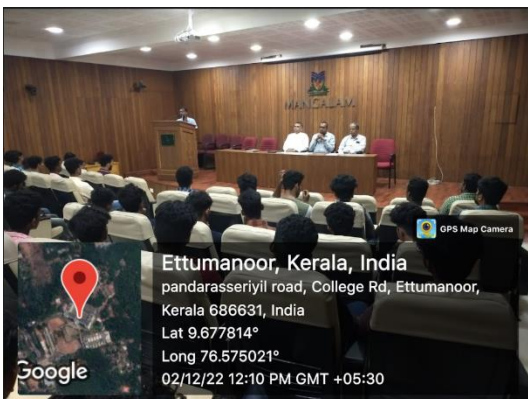
Hafla-Football celebration



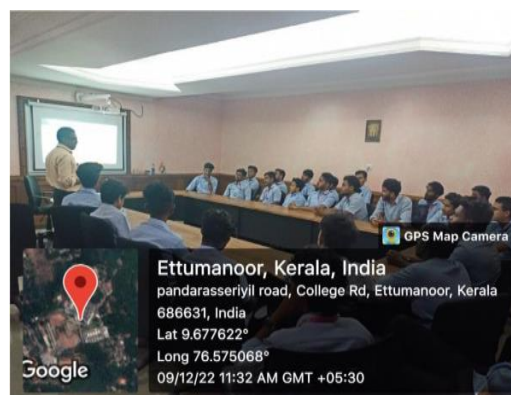
Expert talk on Social Marketing for sustainability



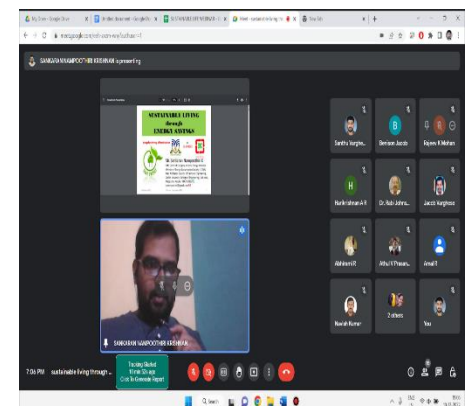
Practical application of design



Becoming Human- Seminar

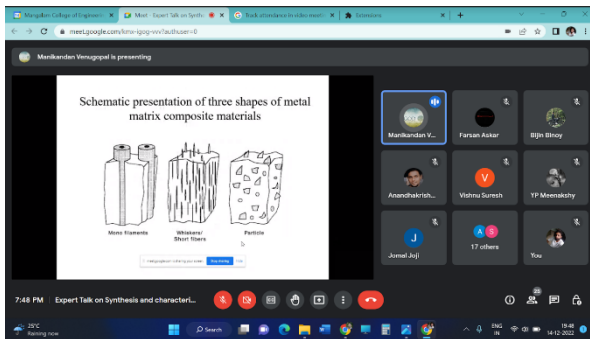


Awareness Program On Energy Conservation

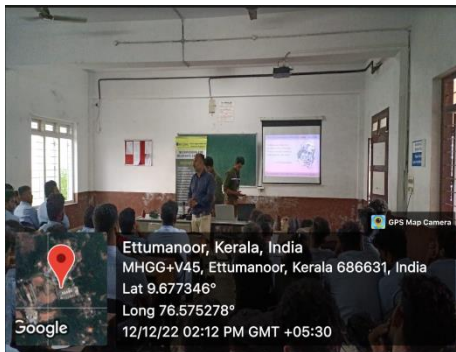


Webinar on Sustainable living through energy saving

Gallery



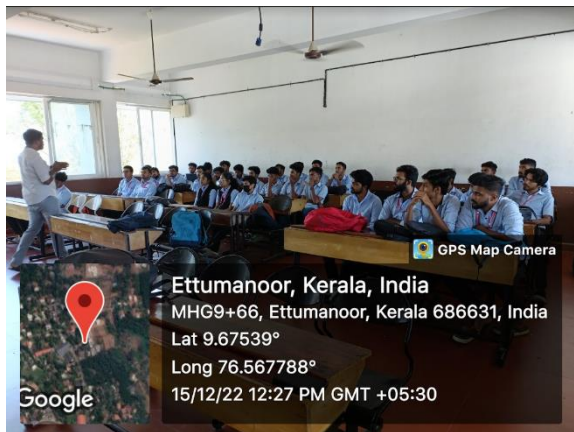
Expert Talk on Synthesis and Characterization of Composite Materials



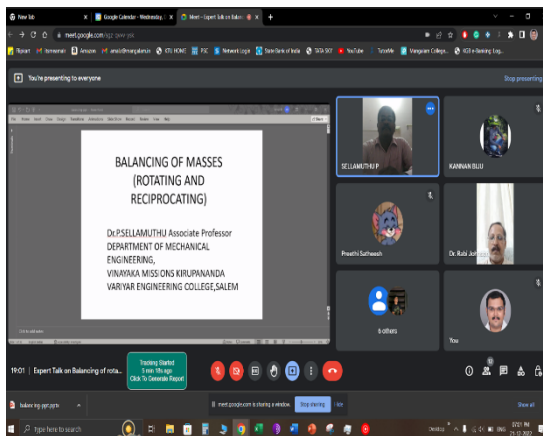
Workshop on NDT Devices, Advanced NDT & Allied Mechanical Sector



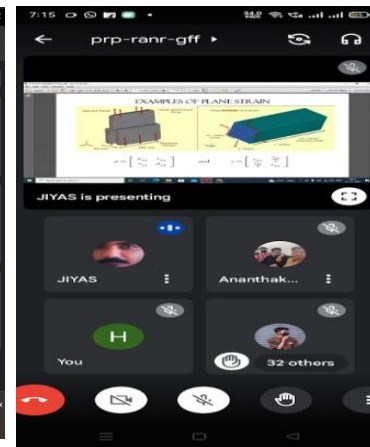
Workshop on fire safety & First aid



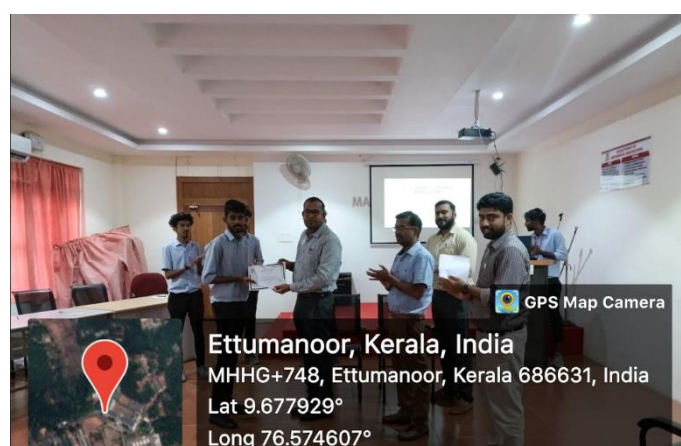
Expert talk on NEBOSH



Expert Talk On Balancing Of Rotating & Reciprocating Masses



Expert talk on 2D Elasticity problems



IEI Quiz Programme- Prize distribution by Principal
First Prize: Sreyas V Nair, Michael Christopher (S5 CSEB), Second Prize: Rahul R Nath, Vishnu S (S5ECE)

Students' Corner

- Revealing of Go-Kart made by Joel Jaimon, Vidhukrishnan, Kiran E P, Jayarag & Justin K Kurian was done on 26/07/2022.
- Cijo Kurian Abraham of 2019-23 batch attended WORKSHOP on ECU tuning by TechMaghi
- Abhinand Vijay of 2019-23 batch attended INTERNSHIP on Electric Vehicle Foundation Course by Techmaghi
- Arun V Madhu of 2019-23 batch attended INTERNSHIP on Additional Internship as a part of Electric Vehicle Foundation Course by Reynlab through Techmaghi
- Ashik Suresh of 2019-23 batch attended INTERNSHIP on Robotics by Techmaghi
- Ashik Suresh of 2019-23 batch attended INTERNSHIP on Content Creator on Rizzle by Silverlabs India Private Limited
- Ansil V Haris of 2019-23 batch attended INTERNSHIP on Basic 3d Modeling by TECHMAGHY
- Akshay Raj of 2019-23 batch attended workshop on ECU tuning and remaps level 1 by techmaghi
- Devan Sarath of 2020-24 batch attended Internship program by Alphasys 3D Printing Solutions
- Vishal Sasidharan of 2020-24 batch attended Internship in field of Robotics
- Karthik Jeevan of 2020-24 batch attended Internship in field of Robotics
- Kannan Biju of 2020-24 batch attended Internship in field of Robotics
- Aswin PB of 2020-24 batch attended Internship in field of Robotics
- Chinmay S of 2020-24 batch attended 2 Months Course on ECU TUNING - TECHMAGHI



Revealing the Go-Kart



Hrishikesh (2020-25) Receiving Best Athlete Award during Race 2K22

Faculty Corner

- Asso.Prof Dr. Rabi J, Asst.Prof.Amal R, Asso.Prof.Dr.Bibin KS, attended FDP on Contemporary Break throughs in the technologies of Industry 4.0 organised by Vimal Jyothi Engineering College Kannur on 22/08/2022 to 24/08/2022.
- Asst.Prof. Tony Mathew attended FDP on Digital Suplly Chain Management organised by NIT,Calicut on 19/09/2022 to 30/09/2022.
- Asst.Prof.Santhu Varghese Thomas attended FDP on Recent trends in Artificial Intelligence and Cyber Security organised by Shri Vishnu Engineering College for Women(A), Bhimavaram on 01/11/2022 to 05/11/2022.
- Asst.Prof. Santhu Varghese Thomas, Asst.Prof.Tony Mathew attended FDP on Soceital Applications of Machine Learning organised by Shri Vishnu Engineering College for Women(A), Bhimavaram on 26/12/2022 to 30/12/2022.
- Prof. Dr.Manikandan H attended FDP on Rapid Manufacturing organised by IIT Madras on July to October 2022.
- Prof. Dr.Manikandan H attended FDP on Fundamentals of Manufacturing Processes organised by IIT Madras on July to October 2022
- Prof.Dr.Manikandan H attended FDP on High End Machining centres for computer Integrated Manufacturing organised by IIT Madras on 28/11/2022 to 04/12/2022.
- Prof.Dr.Manikandan H attended FDP on Advanced Machining Process organised by IIT Dhanbid on August to October 2022.



Dr. Sreekumar V,

You are so inspiring blessing for our department. Thank you for everything you did for us. Thank you for the endless patience, motivation and persistence which helped everyone.

Best wishes

Upcoming Events

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

Patrons

Dr. Biju Varghese
Chairman, Mangalam Educational Institutions
Dr. Vinodh P Vijayan
Principal, Mangalam College of Engineering

Conference Chair

Dr. K Pratheesh
Professor and Head, Department of Mechanical Engineering, Mangalam College of Engineering

Convener

Dr. Manikandan H
Professor, Department of Mechanical Engineering, Mangalam College of Engineering

Coordinators

Dr. Manuel George
Dr. Rabi Johnson
Dr. Bibin K S

Organizing Committee

Mr. Rajeeve K. Mohan
Mr. Arun Jose
Mr. Harikrishnan A.R.
Mr. Amal R
Mr. Jishnu M
Mr. Benphil C Mathew
Mr. Johan George Cherian
Mr. Albert Mathew
Mr. Santhu Varghese

Mr. Rahul Krishnan
Mr. Ajithkumar K.T.
Mr. Abin Babu
Mr. Dona Thomas
Mr. Tony Mathew
Mr. Amal Krishna
Mr. Navish Kumar
Mr. Benson Varghese
Mr. Premjith S

Advisory committee

Dr Sabu Thomas
Vice Chancellor, Mahatma Gandhi University, Kottayam

Dr. T P D Rajan
Senior Principal Scientist, NIIST

Dr M A Joseph
Professor, NIT Calicut

Dr Animesh Mandal
Associate Professor, IIT Bhubaneswar

Dr Tufan Chandra Bera

Associate Professor (Mechanical), BITS Pilani

Dr T. Balusamy

Professor (Mechanical), Government College of Engineering, Salem

Dr Basil Kuriachen,

Assistant Professor, NIT Calicut

Dr Kiran Raj K

PDF, Hongik University, Seoul, South Korea

Dr Sanjay Mavinkere Rangappa

Professor, King Mongkut's University of Technology, North Bangkok, Thailand

Dr Siengchin Suchart

Professor King Mongkut's University of Technology, North Bangkok, Thailand

Dr Aykut Canakci

Professor, Metallurgical and Materials Science, Karadeniz Technical University, Trabzon, Turkey

Speakers

Dr. Ravi Sankar Haridas
Research Assistant Professor
Department of Mechanical Engineering
Advanced Materials and Manufacturing Processes Institute
Center for Friction Stir Processing
University of North Texas, USA

Dr. Praveen .B

Post-Doctoral Fellow
Department of Mechanical & Aeronautical Engineering
University of Pretoria, South Africa

Dr. Sharu B K

Post-Doctoral Fellow
University of California Los Angeles, USA

Dr. Ravi Sankar Haridas
Research Assistant Professor
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Dr. Praveen .B

Post-Doctoral Fellow
Department of Mechanical & Aeronautical Engineering
University of Pretoria, South Africa

Dr. Sharu B K

Post-Doctoral Fellow
University of California Los Angeles, USA

About the conference

ICAMET-2023 is an International Conference on Mechanical Engineering encompassing fields of Thermal engineering, Fluid mechanics, Material Science, Design and Manufacturing and Safety, Fire and OHS Engineering organized by the Department of Mechanical Engineering of the Mangalam College of Engineering. ICAMET-2023 will be held during May 26th-27th, 2023, at Mangalam College of Engineering, Kottayam. The conference will compose of multiple parallel sessions covering all the major themes and invited keynote lectures by eminent academicians and scientists from various fields. The conference also seeks to provide a common forum for researchers, scientists and engineers from these diverse fields of interdisciplinary sciences to discuss and exchange ideas with their peers. Publication of original research articles, review articles and feature articles in the conference proceedings book with ISBN number is also envisaged. The scope of the conference may include following major topics, but are not limited to:

A) THERMAL AND FLUID

Renewable and Non-Conventional Energy Sources
Energy Storage
Internal Combustion Engines
Propulsion

Computational methods in Thermal Engineering
Refrigeration and Air conditioning
Heat and Mass Transfer
Computational Fluid Dynamics
Fluid Mechanics & Fluid Machinery
Micro and nanofluidics

B) DESIGN AND MANUFACTURING

Modeling and Simulation of Systems and Processes
CAD/CAM/CIM/ Automation and Robotics
FEM

Nanomaterials and systems

Mechatronics

Tribology
Smart materials
Dynamics & Vibration
Alloys/Composites/Ceramics/Polymers
Advanced Manufacturing Processes/Advanced manufacturing
Space vehicles
Materials processing

C) SAFETY AND OCCUPATIONAL HEALTH

Process safety
Incident investigation
Environment management
Safety in non-process industry sectors
Fire science and technology
Occupational health and safety
Transportation of hazardous materials
MEMS

Electric and Hybrid vehicles

D) INDUSTRIAL ENGINEERING AND MANAGEMENT

Supply Chain Management
Optimization techniques
Product Design and Development
Product Lifecycle Management
Sustainable Manufacturing
Operations Research
Total Quality Management

Publication Partners

International Journal of Occupational Safety and Health (IOSH) (ISSN 2738-9707) and Scopus Indexed.
Journal of Polymer & Composites (JoPC) (ISSN 2321-8525) and WoS Indexed.

Trends in Mechanical Engineering and Technology (TMET) (ISSN 2347-9965).

Journal of Safety Science and Fire Research (JSSF) (ISSN 2583-4886) by National Safety Council.



2nd
International Conference on
Advances in
Mechanical Engineering:
Transcending Boundaries
ICAMET-2023
May 26,27, 2023

ICAMET 2023

Organized by


Department of Mechanical Engineering
Mangalam College of Engineering
Ettumanoor, Kottayam, Kerala
Approved by AICTE and
Affiliated to
APJ Abdul Kalam Technological University (KTU)

Vision
To be a centre 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.



Registration fees

| Category | | Registration Fee (Indian) | Registration Fee (International) |
|-----------|---------------------------|---------------------------|----------------------------------|
| Authors | Student /Research scholar | 750 INR | \$ 60 |
| | Academician / Industry | 1500 INR | \$ 100 |
| Delegates | Student /Research scholar | 500 INR | \$ 50 |
| | Academician / Industry | 1000 INR | \$ 75 |

Important Dates

Submission of abstract of paper : 15th March, 2023
Notification of initial acceptance : 25th March, 2023
Submission of full length paper :5th April, 2023
Author(s) notification after review : 30th April, 2023
Final paper submission : 5th May, 2023
Notification of final acceptance : 10th May, 2023
Last date of registration : 25th May, 2023
Selected articles will be published in WoS/Scopus indexed journals. Publication charges will be extra.

About the Institute

Mangalam College of Engineering (MLM) stands supreme in the field of technical education with excellence and quality in education. Approved by the All India Council for Technical Education (AICTE) and affiliated to the APJ Abdul Kalam Technological University (KTU) in Kerala, MLM is promoted by the Mangalam Educational Society, with a mission to bring out leaders for a technology-driven environment.

Contact Us

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Mob: +91 94958 74512, +91 82398 21122

ALUMNI MEETING
(January)

TECH FEST
TORQUE 11
(April)

ARTS FEST
SAPTHARANG
(April)

Editorial
Dr. Pratheesh K
Mr. Rajeeve K Mohan
Mr. Santhu Varghese
Cijo Kurian Abraham
(Assistant Editor)

Varsha Lal
Jayasankar
Harishankar

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