AAA COLLEGE OF ENGINEERING & TECHNOLOGY

Accredited by NAAC with “A” Grade, Accredited by NBA (CIVIL, CSE, ECE, EEE, MECH)
(An ISO 21001: 2018 Certified Institution) (Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai) Amathur, Sivakasi - 626 005.

Department of Mechanical Engineering

(Approved research center by Anna Univesity)

NEWS LETTER

ISSUE NO.8
Academic year 2024-2025



Innovation and **Adaptability**

The Department of Mechanical Engineering actively fosters innovation and adaptability through advanced research publications, industry-oriented faculty development programs, adoption of emerging technologies such as additive manufacturing and Industry 4.0, student participation in NPTEL and skill-based certifications, and strong industry interaction via internships and industrial visits.

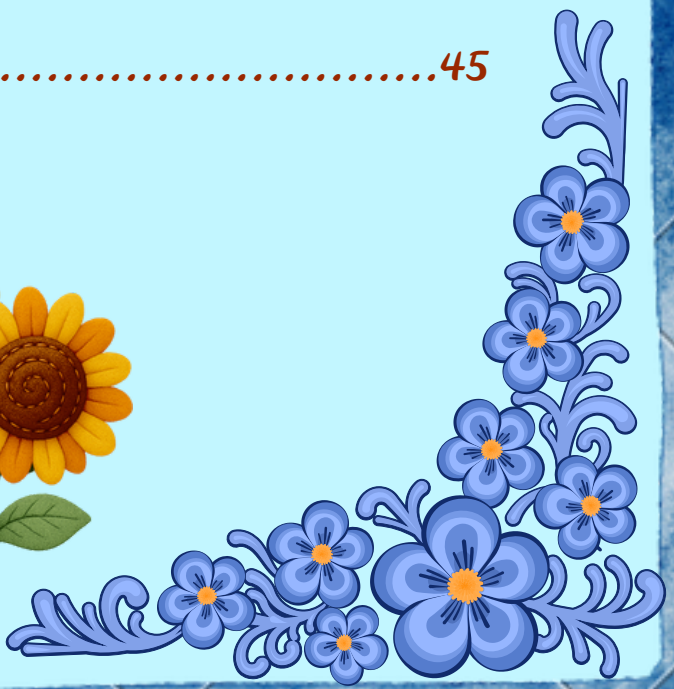
Students-Centric **Strategies**

The Department of Mechanical Engineering follows student-centric strategies through experiential learning, skill development, and holistic growth. Students engage in NPTEL courses, industrial visits, internships, technical events, and design activities. Career guidance, webinars, and sports participation enhance employability, creativity, and overall personality, preparing students to meet emerging engineering challenges confidently.

NEWSLETTER INDEX

1. Vision & Mission of the Institution and Department.....03
2. Program Outcome, PSO, PEO.....05
3. Sustainable Development Goals.....07
4. Message from Principal.....08
5. Message from Head of the Department.....09
6. Faculty Achievements.....10
7. Faculty Publications.....11
8. Faculty Academic Contributions.....14
9. Guest Lectures Delivered.....16
10. Knowledge Delivery & Department Activities.....17
11. Students Achievements.....29
12. Student Participation Symposiums.....31
13. Studetns Publications.....36
14. Industrial Visits.....42
15. Editorial members.....45





Institutions vision mission

VISION OF AAACET

Emerge as a Premier Institute for Quality Technical Education and Research with social responsibilities.

MISSION OF AAACET

- To offer state of the art infrastructure for under graduate, postgraduate and doctoral programs.
- To provide holistic learning ambience blended with professional ethics, leadership qualities and social responsibilities.
- To disseminate knowledge and undertake research in field of Engineering and technology.
- To inculcate innovation and creativity among student community to become successful entrepreneurs.
- To undertake collaborative projects with academic, research centres and industries to provide cost–effective solutions.



Institutions vision mission

DEPARTMENT VISION

·Emerge as an eminent center of excellence in Mechanical Engineering for quality technical education and scientific research leading to social development.

DEPARTMENT MISSION

- To impart quality education to create efficient Mechanical Engineers through eminent faculty.
- To provide the state-of-the art infrastructure to facilitate the cutting-edge research in emerging field of Mechanical Engineering.
- To undertake multidisciplinary and collaborative projects with industries and research organizations.
- To serve the society by developing competent engineers and entrepreneurs with outstanding leadership qualities and moral values.



Program Outcome

PO-1	Engineering knowledge; Apply the knowledge of mathematics, science, engineering fundamentals and Engineering 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 computer aided 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.

Program specified Outcome

Program Educational Outcome

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)	
PEO 01	The graduates will possess in-depth knowledge in the field of Mechanical Engineering and have a successful professional career in industry or by becoming an entrepreneur or by pursuing higher education and research.
PEO 02	The graduates will demonstrate profound problem solving skills and improved ability to design, develop economic and environment friendly Mechanical systems for multi-disciplinary societal needs.
PEO 03	The graduates will have ethical attitude and leadership quality to work efficiently with diverse teams, adapt to recent technologies by lifelong learning to solve real life problems.

PROGRAM SPECIFIC OUTCOMES (PSOS) :	
PSO 01	Ability to apply the basic knowledge to identify, formulate and solve problems in the domains of thermal, machine design, manufacturing and industrial engineering.
PSO 02	Ability to provide solutions to complex Mechanical Engineering problems by acquiring technological inputs and managerial skills and utilizing advanced technology with the help of modern CAD/CAM/CAE tools
PSO 03	Ability to develop mechanical and allied products with socio-economic concern by applying innovative ideas under ethical and professional constraints leading to a successful career.

Sustainable Development Goal

SDG No.	SDG Goal
SDG 1	No Poverty
SDG 2	Zero Hunger
SDG 3	Good Health and Well-being
SDG 4	Quality Education
SDG 5	Gender Equality
SDG 6	Clean Water and Sanitation
SDG 7	Affordable and Clean Energy
SDG 8	Decent Work and Economic Growth
SDG 9	Industry, Innovation and Infrastructure
SDG 10	Reduced Inequalities
SDG 11	Sustainable Cities and Communities
SDG 12	Responsible Consumption and Production
SDG 13	Climate Action
SDG 14	Life Below Water
SDG 15	Life on Land
SDG 16	Peace, Justice and Strong Institutions
SDG 17	Partnerships for the Goals





Message from the Principal...



I am happy to share the newsletter of the Department of Mechanical Engineering for the academic year 2024–2025. This newsletter highlights the academic progress, research contributions, and student achievements of the department.

I appreciate the faculty members for their valuable publications in reputed SCI and Scopus indexed journals and for their active participation in Faculty Development Programmes. The department has also organized national-level technical events and encouraged students to participate in hackathons, competitions, and industrial visits, which enhance their practical knowledge and skills.

I congratulate the Head of the Department, faculty, and students for their dedication and hard work. I wish the department continued success in all its future endeavors.

Dr. M. Sekar
Principal



Message from the HoD...



It gives me great pleasure to present the activities and achievements of the Department of Mechanical Engineering for the year 2024-2025.

Our faculty members have actively contributed to research through publications in reputed journals and participation in various development programs. We have organized technical events such as MECDEZ and TECHFORGE 2K25, which provided students with opportunities to showcase their talents and innovative ideas.

Our students have participated in symposiums, hackathons, NPTEL courses, cultural events, and industrial visits, gaining valuable exposure and experience.
I sincerely thank the management, faculty members, students, and alumni for their continuous support. Together, we will continue to strive for excellence.

Dr. R. Selvabharathi
Professor & Head
Department of Mechanical Engineering





Faculty Achievements



The faculty members of the Department of Mechanical Engineering continuously strive for academic excellence, professional development, and quality teaching-learning practices. During the academic year June 2024 – May 2025, the following achievements were recorded



Ph.D. awarded



The successful completion of the Ph.D. degree by Dr. M. Kaliraj in October 2024 marks a significant academic achievement for the department. His doctoral research in the area of Bio Composite Film contributes to sustainable materials development and strengthens the department's research capabilities. This achievement enhances the department's academic profile and supports research-oriented teaching and student mentorship.

100% Result in Anna University Examinations



Dr.M. Kaliraj AP(SG)	Dr.P.S.R.Senthil Maharaj ASP	Mr.P.C.Rajaran AP	Mr.A.Vignesh Moorthy Pandian AP
CME355-Materials handling & Solid processing Equipment	GE3271-Engineering Graphics CME355- Computer Integrated Manufacturing	GE3271-Engineering Graphics	GE3271-Engineering Graphics
June/July 2024	Nov/Dec 2024	Nov/Dec 2024	Nov/Dec 2024



Congratulations

FACULTY PUBLICATIONS

The faculty members of the Department of Mechanical Engineering actively engage in high-quality research and scholarly activities. During the academic year June 2024 – May 2025, faculty published research articles in SCI and Scopus indexed international journals, contributing to advancements in materials science, additive manufacturing, biomedical engineering, composites, and sustainable technologies.



Dr. P. S. R. Senthil Maharaj and Mr. A. Vignesh Moorthy Pandian, Assistant Professors, Department of Mechanical Engineering, published a research article titled "Design and creation of pin on disc wear machine at low cost" in the International Journal of Creative Research Thoughts (IJCRT), Vol. 12, Issue 7, July 2024. (Indexed Journal)



Dr. M. Sekar, Principal, Dr. P. S. R. Senthil Maharaj, Associate Professor, **Mr. M. Nagendran,** Assistant Professor, and Mr. A. Vignesh Moorthy Pandian, Assistant Professor, published an SCI indexed journal titled "Enhanced Mechanical and Thermal Properties in Epoxy-Based Glass Fabric Composites via Nano Silica Integration" in Polymer-Plastics Technology and Materials, Taylor & Francis, August 2024. (Impact Factor: 2.6)



Dr. R. Selvabharathi, Professor & Head, and **Dr. M. Sekar**, Principal, published an SCI indexed journal titled "Effect on Ti/Mg isothermal oxidation of refinement microstructure and tribological behavior of pure aluminum alloy by plasma spray coating" in Proceedings of the Institution of Mechanical Engineers – Part N, August 2024. (Impact Factor: 2.6)



Dr. R. Selvabharathi, Professor & Head, published an SCI indexed journal titled "Influence of microstructure and tribology properties on deep-dipping coating method of sappan wood (SW) / polyvinyl alcohol (PVA) / polyethylene (PE) / aluminum nitride composites" in Journal of Polymer Research, Springer. (Impact Factor: 2.6)



Dr. P. S. R. Senthil Maharaj, Associate Professor, published a Scopus indexed journal titled "Transformative applications of additive manufacturing in biomedical engineering: bioprinting to surgical innovations" in Journal of Medical Engineering & Technology, Taylor & Francis, 2024.

FACULTY PUBLICATIONS





Dr. R. Meby Selvaraj, Associate Professor, published an SCI indexed journal titled "Effects of alkali-silane surface-grafted pineapple fiber on lamina delamination and drilling damage behaviors of hot-water ageing composites" in Journal of Silicon, Springer, September 2024. (Impact Factor: 2.8)



Dr. R. Selvabharathi, Professor & Head, published an SCI indexed journal titled "Improving the strength-ductility synergy and surface properties of NiFe29Cr21CuMo-based alloy laser welding subsequent deep cryogenic treatment and vacuum plasma WC20Cr3C2NiX coating" in Proceedings of the Institution of Mechanical Engineers – Part E, 2024. (Impact Factor: 2.3)



Mr. Senthil Maharaj PSR, Associate Professor, Department of Mechanical Engineering, published a research article titled "Impact of fillers in enhancing the properties of CFRP composites – A comprehensive exploration" in Journal of Next Search, Elsevier (ScienceDirect), December 2025. (Scopus Indexed)



Mr. M. Karthikeyan, Assistant Professor, published a review article titled "A short review of bio-inspired structures prepared using additive manufacturing for energy absorption applications" in Progress in Additive Manufacturing, Springer Nature, January 2025. (Impact Factor: 4.0)



Dr. Senthil Maharaj PSR, Associate Professor, published a Scopus indexed journal titled "Morphological insights of carbon nanomaterials using atomic force microscopy and their applications" in Journal of Medical Engineering & Technology, World Scientific Publishing. (Impact Factor: 1.0)



Dr. Senthil Maharaj PSR, Associate Professor, published a Scopus indexed journal titled "Mechanical, thermal and microstructural analysis of basalt fabric composite with interfacial reinforcement by electrostatic self-assembly of silicon carbide nanoparticles" in Journal of Adhesion Science and Technology, Taylor & Francis. (Impact Factor: 2.7)

FACULTY PUBLICATIONS



Dr. M. Sekar, Principal, and Dr. Senthil Maharaj PSR, Associate Professor, published a Scopus indexed journal titled “4D bioprinting for personalized medicine, innovations in implant fabrication and regenerative therapies” in Polymer-Plastics Technology and Materials, Taylor & Francis. (Impact Factor: 2.6)



Dr. Senthil Maharaj PSR, Associate Professor, and **Mr. A. Vignesh Moorthy Pandian,** Assistant Professor, published a Scopus indexed journal titled “Exploring mechanical properties of additive manufactured patient-specific finger splints through FEA and experimental testing” in Journal of Research and Publications in Mechanical Engineering.



Dr. Senthil Maharaj PSR, Associate Professor, and **Mr. S. Balamurugan**, Assistant Professor, published an SCI indexed journal titled “Natural fiber filaments: the future of sustainable 3D printing” in MethodX, Elsevier. (Impact Factor: 1.7)



Dr. Senthil Maharaj PSR, Associate Professor, published an SCI indexed journal titled “Artificial intelligence and machine learning-driven design of self-healing biomedical composites” in Expert Review of Medical Devices, Taylor & Francis. (Impact Factor: 3.0)



Faculty Academic Contributions

Faculty members of the Department of Mechanical Engineering actively engage in continuous professional development and academic outreach through participation in Faculty Development Programmes (FDPs), workshops, seminars, guest lectures, and online certification courses. These activities help faculty stay updated with emerging technologies, enhance teaching effectiveness, and contribute to quality education.

FDP / SEMINARS / WORKSHOPS ATTENDED BY FACULTY

- Mr. A. Vignesh Moorthy Pandian, Assistant Professor, Department of Mechanical Engineering, served as a Mentor for Smart India Hackathon (SIH) conducted at IIT Bhubaneswar on 11–12 December 2024.
- Dr. R. Meby Selvaraj, Assistant Professor (Senior Grade), Department of Mechanical Engineering, successfully completed an AICTE–ATAL Faculty Development Program on "Advanced Functional Materials: Fabrication, Characterization and Applications" at Mepco Schlenk Engineering College, Sivakasi, from 02.12.2024 to 07.12.2024.
- Dr. M. Kaliraj, Assistant Professor (Senior Grade), Department of Mechanical Engineering, participated in the AICTE–ATAL FDP on Advanced Functional Materials at Mepco Schlenk Engineering College, Sivakasi, from 02.12.2024 to 07.12.2024.
- Dr. P. S. R. Senthil Maharaj, Associate Professor, Department of Mechanical Engineering, completed the AICTE–ATAL FDP on Advanced Functional Materials at Mepco Schlenk Engineering College, Sivakasi, from 02.12.2024 to 07.12.2024.
- Mr. S. Balamurugan, Assistant Professor, Department of Mechanical Engineering, completed the AICTE–ATAL FDP on Advanced Functional Materials at Mepco Schlenk Engineering College, Sivakasi, from 02.12.2024 to 07.12.2024.
- Dr. R. Meby Selvaraj, Assistant Professor (Senior Grade), participated in the National Level Workshop on Innovative Technologies for Rural Development conducted at Sethi Institute of Technology on 17.12.2024.
- Mr. P. C. Rajarajan, Assistant Professor, Department of Mechanical Engineering, attended an FDP on "Advanced Tools and Techniques for Industrial Automation and Robotics", organized by K.L.N. College of Engineering, Madurai, from 30.12.2024 to 04.01.2025.
- Dr. R. Meby Selvaraj, Assistant Professor (Senior Grade), participated in the FDP on "Research Scopes in Mechanical Engineering" at SRM Madurai College for Engineering and Technology, on 02–03 January 2025.

Faculty Academic Contributions

Faculty members of the Department of Mechanical Engineering actively engage in continuous professional development and academic outreach through participation in Faculty Development Programmes (FDPs), workshops, seminars, guest lectures, and online certification courses. These activities help faculty stay updated with emerging technologies, enhance teaching effectiveness, and contribute to quality education.

FDP / SEMINARS / WORKSHOPS ATTENDED BY FACULTY

- Dr. R. Meby Selvaraj, Assistant Professor (Senior Grade), completed an AICTE–ATAL FDP on Recent Trends in Advanced Composite Materials: Challenges and Future Perspectives at Bharath Institute of Science and Technology, from 20.01.2025 to 25.01.2025.
- Dr. G. Vairamuthu, Associate Professor, participated in an AICTE–ATAL FDP on “Transforming Industries with AI: Deep Learning Breakthroughs and Real-World Applications” at SRM Institute of Science and Technology, Ramapuram Campus, from 20.01.2025 to 25.01.2025.
- Dr. G. Vairamuthu, Associate Professor, attended an FDP on “Recent Trends in Alternate Fuels” at SRM Madurai College for Engineering and Technology, on 30.01.2025.
- Dr. R. Meby Selvaraj, Assistant Professor (Senior Grade), participated in a State Level Seminar on “IoT Applications for Rural Development” at Kalasalingam Academy of Research and Education, Virudhunagar, on 12.02.2025.
- All faculty members of the Department of Mechanical Engineering successfully completed the Universal Human Values – I program conducted at AAA College of Engineering and Technology from 27.02.2025 to 01.03.2025.





GUEST LECTURES DELIVERED BY FACULTY

Faculty members of the Department of Mechanical Engineering actively engage in continuous professional development and academic outreach through participation in Faculty Development Programmes (FDPs), workshops, seminars, guest lectures, and online certification courses. These activities help faculty stay updated with emerging technologies, enhance teaching effectiveness, and contribute to quality education.

- Dr. R. Selvabharathi, Professor and Head, Department of Mechanical Engineering, delivered a guest lecture on “Industrial Safety” to third-year Mechanical Engineering students of SRNM Polytechnic College, Sattur, on 12.02.2025.
- Mr. P. C. Rajarajan, Assistant Professor, Department of Mechanical Engineering, delivered a guest lecture on “Preventive Measures in Industrial Safety” at SRNM Polytechnic College, Sattur, on 12.02.2025.
- Mr. M. Karthikeyan, Assistant Professor, Department of Mechanical Engineering, delivered a guest lecture on “Industrial Hazards” at SRNM Polytechnic College, Sattur, on 12.02.2025.



National Level Technical Symposium

A National Level Technical Symposium "MECDEZ" On October 25, 2024, at AAA College of Engineering and Technology in Sivakasi, was held on behalf of the Department of Mechanical Engineering. This National Level Technical Symposium had 101 participants from various engineering colleges and polytechnic colleges. As our college's alumnus and an engineer employed at Tata Electronics in Hosur, Mr. R.V. Gunaseelan is the event's chief guest. The event began with a prayer song at 10:00 AM, followed by the ceremonial lighting of the kuthuvilakku, symbolizing the start of an inspiring day.

The welcoming address was delivered by second-year student R.Santha Kumar at the inaugural ceremony. The inauguration address was given by Dr. R. Selvabharathi., Head of the Department / Mechanical Engineering.The Head of the Department Dr. R. Selvabharathi, and Department Association Coordinator Professor Dr. M. Kaliraj presented the memento as a token of appreciation to the chief guest.



National Level Technical Symposium

MECDEZ 2K24

TECHNICAL EVENTS



- Project/Paper Presentation
- Think And Design





- Mech Mind Spark
- Wheel Wars (Own Electric Bike)

NON-TECHNICAL EVENTS



- Master Mind Quiz



- Free Fire
- Connection



- Movie Buzz



- Fun Games







National Level Technical Symposium

MECDEZ 2K24

INAUGURATION



INAGURATION function

Honoring the Chief Guest





Chief Guest
Mr. R.V. Gunaseelan
Address to Gathering



National Level Technical Symposium

MECDEZ 2K24

REGISTRATION



Registration

Reception





fun moment

National Level Technical Symposium

MECDEZ 2K24

EVENTS



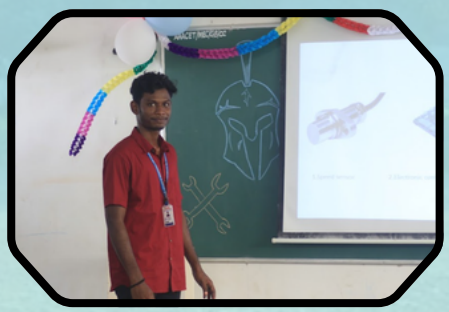


CAD COMPETITION



CONNECTION





QUIZ



National Level Technical Symposium

MECDEZ 2K24

ENCHANTELIYS













Faculty Development Program

Innovative Synergies in Thermal Systems, Refrigeration Technologies, and Advanced Materials for Enhanced Efficiency

Department of Mechanical Engineering Had Inaugurated Association of Mechanical engineers & organized a Three Day's Faculty Development Program on "Innovative Synergies in Thermal Systems, Refrigeration Technologies, and Advanced Materials for Enhanced Efficiency" from 26.09.2024 to 28.09.2024 hybrid mode by the resource person from various Engineering colleges & Industrial side people. From this workshop all the students got the clear idea about the thermal & refrigeration systems as well as usage of material system in thermal field for Enhanced Efficiency. Totally 80 students and faculty participated.



Faculty Development Program

Innovative Synergies in Thermal Systems, Refrigeration Technologies, and Advanced Materials for Enhanced Efficiency





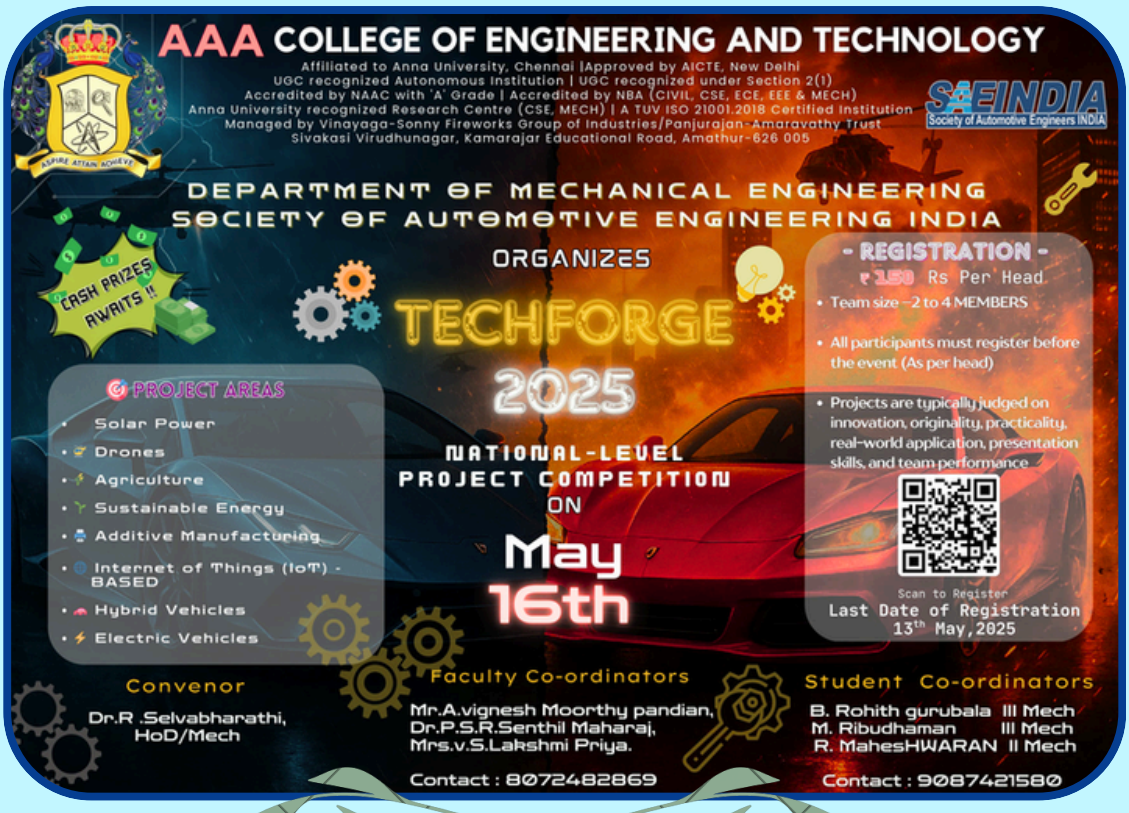




National Level Technical Project Competition

TECHFORGE 2025

On 16 May 2025, the Department of Mechanical Engineering, AAA College of Engineering and Technology, in association with the SAE India College Club, organized TECHFORGE 2K25, a National Level Technical Project Competition aimed at enhancing students' technical, innovative, and problem-solving skills. The event attracted 60 participants from reputed institutions such as K.L.N. College of Engineering and Technology, Hindustan College of Engineering and Technology, Saveetha Engineering College (Chennai), and Sankara Polytechnic College (Coimbatore). Students showcased innovative projects in areas including advanced manufacturing, automation, renewable energy, and product design. The program was inaugurated by Dr. R. Selvabharathi, Professor and Head of the Department of Mechanical Engineering. Mr. B. Gopalakrishnan, M.Tech., Business Head, MS Fire & Safety Institution, Rajapalayam, served as the Chief Guest and highlighted the importance of research, innovation, and intellectual property rights. The programme provided students with valuable exposure to interdisciplinary learning, industry expectations, teamwork, and effective technical presentation, thereby significantly enhancing their employability and professional competence.



National Level Technical Project Competition

TECHFORGE 2025

TECHNICAL EVENTS

Solar Power
Drones
Agriculture
Sustainable Energy
Additive Manufacturing
Internet of Things (IoT) - Based
Hybrid Vehicles
Electric Vehicles

NON-TECHNICAL EVENTS

CAD modeling
Treasure hunt
Squid game

National Level Technical Project Competition

TECHFORGE 2025

INAGURATION







National Level Technical Project Competition

Photo Gallery









Students Achievement

CONGRATULATIONS

STUDENTS' ACHIEVEMENTS

Mr.Antonyraja.A, III Year Mechanical engineering has won third prize in Graphix (Trailer Time) event of Legacy'24, a state level Inter-collegiate cultural festival organized by Mepco Schlenk Engineering College, Sivakasi on 19.09.2024, 20.09.2024

Mr.Maheswaran R, II Year Mechanical engineering has won First prize in Voice of Legacy event of Legacy'24, a state level Inter-collegiate cultural festival organized by Mepco Schlenk Engineering College, Sivakasi held on 19.09.2024, 20.09.2024

Mr.Antonyraja.A, III Year Mechanical engineering has won first prize in Speech competition event of Karisal Ilakkiya Thiruvila 2024, a Dist level cultural festival organized by Virudhunagar Dist Administrator , Virudhunagar on 16.12.2024.

Mr.Maheswaran R, II Year Mechanical engineering has participated in the event Solo song in Fantabulous all India Inter-collegiate cultural festival organized by Nehru Arts and Science College, Coimbatore held on 26.09.2024

Jeyarajasekar.K, Saravanakumar.S, Vijayasurya. M , Students from Department of Mechanical Engineering received cash award from Tamilnadu state council of science and technology for the title of "Design and fabrication of eco-friendly and cost effective portable air cooler" under the students project scheme 2023-2024.

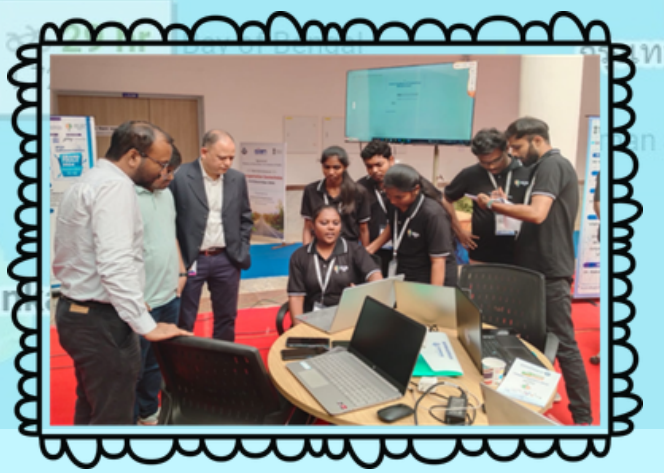
Manokumar M, Vickram R,Sujitha K, Hariharan S, and Devadharshini S, students ofMechanical Engineering were participated Smart India Hackathon was conducted IIT Bhubaneswar from 11.12.2024 and 12.12.2024.

Students present idea @IIT-Bhubaneswar

STUDENTS' PARTICIPATED IN IIT

A team comprising Vighnesh Moorthy Pandian A, Assistant Professor, and students Manokumar M, Vickram R, Sujitha K, Hariharan S, and Devadharshini S from the Mechanical Engineering Department participated in the Smart India Hackathon (SIH) 2024, held at IIT Bhubaneswar on December 11-12, 2024. The event witnessed the participation of more than 100 teams from various institutions across the country, competing to develop innovative solutions for real-world challenges. The team showcased their technical expertise, problem-solving skills, and teamwork while tackling industry-relevant problems. Their participation in this prestigious event provided them with valuable exposure, hands-on experience, and an opportunity to interact with experts, further enhancing their knowledge and professional growth in the field of engineering and technology.





Students participation

Students participation

1. R. Maheswaran: R. Maheswaran participated in Non-Technical - Legacy'24 organized by Mepco Schlenk Engineering College, Sivakasi, at the state level on 19.09.2024 and 20.09.2024, and secured the First Prize in Voice of Legacy.
2. A. Antony Raja: A. Antony Raja participated in Non-Technical - Legacy'24 organized by Mepco Schlenk Engineering College, Sivakasi, at the state level on 19.09.2024 and 20.09.2024, and secured the Third Prize in Graphix.
3. R. Maheswaran: R. Maheswaran participated in Non-Technical - Fantabulous organized by Nehru Arts and Science College, Coimbatore, at the national level on 26.09.2024.
4. S. Sugadeva: S. Sugadeva participated in Paper Presentation - MECANCIENTZ 2K24 organized by Kings College of Engineering, Thanjavur, at the national level on 18.10.2024.
5. R. Sundar: R. Sundar participated in Paper Presentation - MECANCIENTZ 2K24 organized by Kings College of Engineering, Thanjavur, at the national level on 18.10.2024.
6. S. Suresh Kumar: S. Suresh Kumar participated in Paper Presentation - MECANCIENTZ 2K24 organized by Kings College of Engineering, Thanjavur, at the national level on 18.10.2024.
7. M. Taj Mukriesh Gani: M. Taj Mukriesh Gani participated in Technical Connection - MECANCIENTZ 2K24 organized by Kings College of Engineering, Thanjavur, at the national level on 18.10.2024.
8. K. Pandi: K. Pandi participated in Technical Connection - MECANCIENTZ 2K24 organized by Kings College of Engineering, Thanjavur, at the national level on 18.10.2024

Students participation

Students participation

9. R. Santhakumar: R. Santhakumar participated in CAD Modeling - MECANCIENTZ 2K24 organized by Kings College of Engineering, Thanjavur, at the national level on 18.10.2024.
10. A. Antony Raja: A. Antony Raja participated in CAD Modeling - MECANCIENTZ 2K24 organized by Kings College of Engineering, Thanjavur, at the national level on 18.10.2024.
11. R. Vikram: R. Vikram participated in Smart India Hackathon 2024 at IIT Bhubaneswar on 11.12.2024 and 12.12.2024, cleared the first round, and participated at the national level.
12. K. Sujitha: K. Sujitha participated in Smart India Hackathon 2024 at IIT Bhubaneswar on 11.12.2024 and 12.12.2024, cleared the first round, and participated at the national level.
13. M. Manoj Kumar: M. Manoj Kumar participated in Smart India Hackathon 2024 at IIT Bhubaneswar on 11.12.2024 and 12.12.2024, cleared the first round, and participated at the national level.
14. S. Hariharan: S. Hariharan participated in Smart India Hackathon 2024 at IIT Bhubaneswar on 11.12.2024 and 12.12.2024, cleared the first round, and participated at the national level.
15. S. Devadharshini: S. Devadharshini participated in Smart India Hackathon 2024 at IIT Bhubaneswar on 11.12.2024 and 12.12.2024, cleared the first round, and participated at the national level.
16. C. Neethiselvan: C. Neethiselvan participated in Project Expo - TRIDENT 2025 organized by the Department of Mechanical Engineering, Velammal Institute of Technology, Chennai, at the national level on 28.02.2025.

Students participation

Students participation

17. S. Sakthivel: S. Sakthivel participated in Project Expo – TRIDENT 2025 organized by the Department of Mechanical Engineering, Velammal Institute of Technology, Chennai, at the national level on 28.02.2025.
18. S. Shanmugaraj: S. Shanmugaraj participated in Project Expo – TRIDENT 2025 organized by the Department of Mechanical Engineering, Velammal Institute of Technology, Chennai, at the national level on 28.02.2025.
19. B. Rohit Gurubala: B. Rohit Gurubala participated in Paper Presentation – TORQUE-X 2K25 organized by the Mechanical Engineering Department, Sethu Institute of Technology, Kariyapatti, at the state level on 08.03.2025.
20. B. Rohit Gurubala: B. Rohit Gurubala participated in Non-Technical – TORQUE-X 2K25 organized by the Mechanical Engineering Department, Sethu Institute of Technology, Kariyapatti, at the state level on 08.03.2025.
21. K. Kanishvardhan: K. Kanishvardhan participated in Non-Technical – TORQUE-X 2K25 organized by the Mechanical Engineering Department, Sethu Institute of Technology, Kariyapatti, at the state level on 08.03.2025.
22. K. Kanishvardhan: K. Kanishvardhan participated in Paper Presentation – TORQUE-X 2K25 organized by the Mechanical Engineering Department, Sethu Institute of Technology, Kariyapatti, at the state level on 08.03.2025.
23. S. Suresh Kumar: S. Suresh Kumar participated in Non-Technical – TORQUE-X 2K25 organized by the Mechanical Engineering Department, Sethu Institute of Technology, Kariyapatti, at the state level on 08.03.2025.

Students participation

Students participation

24. S. Suresh Kumar: S. Suresh Kumar participated in Paper Presentation – TORQUE-X 2K25 organized by the Mechanical Engineering Department, Sethu Institute of Technology, Kariyapatti, at the state level on 08.03.2025.

25. S. Suresh Kumar: S. Suresh Kumar participated in Paper Presentation – TECHUTSAV'25, SYNERGICZ 2.0 organized by the Department of Mechatronics, Thiagarajar College of Engineering, Madurai, at the national level on 21.03.2025 and secured the 3rd Prize in Paper Crest.

26. S. Suresh Kumar: S. Suresh Kumar participated in Non-Technical – TECHUTSAV'25, SYNERGICZ 2.0 organized by the Department of Mechatronics, Thiagarajar College of Engineering, Madurai, at the state level on 21.03.2025.

27. A. Antony Raja: A. Antony Raja participated in Paper Presentation – Torque 2K25 organized by the Department of Mechanical Engineering, Selvam College of Technology, Namakkal, at the state level on 21.03.2025.

28. S. Ezhilarasan: S. Ezhilarasan participated in Paper Presentation – Torque 2K25 organized by the Department of Mechanical Engineering, Selvam College of Technology, Namakkal, at the state level on 21.03.2025.

29. K. Guru Vignesh: K. Guru Vignesh participated in Water Rocketry – Torque 2K25 organized by the Department of Mechanical Engineering, Selvam College of Technology, Namakkal, at the state level on 21.03.2025.

30. Kanishvardhan K: Kanishvardhan K participated in Water Rocketry – Torque 2K25 organized by the Department of Mechanical Engineering, Selvam College of Technology, Namakkal, at the state level on 21.03.2025 and secured the Second Prize.

Students participation

Students participation

31. S. Manojkumar: S. Manojkumar participated in Master Mechanic – Torque 2K25 organized by the Department of Mechanical Engineering, Selvam College of Technology, Namakkal, at the state level on 21.03.2025.
32. S. Mohamed Ashif: S. Mohamed Ashif participated in Master Mechanic – Torque 2K25 organized by the Department of Mechanical Engineering, Selvam College of Technology, Namakkal, at the state level on 21.03.2025.
33. J. Jaya Prakash: J. Jaya Prakash participated in Non-Technical – KRATOSIZ-2K25 organized by the Mechanical Engineering Department, P.S.R. Engineering College, Sivakasi, at the state level on 28.03.2025 and secured the Third Prize in Crisis Conqueror.
34. L Sudhakar: L Sudhakar participated in Non-Technical – KRATOSIZ-2K25 organized by the Mechanical Engineering Department, P.S.R. Engineering College, Sivakasi, at the state level on 28.03.2025 and secured the Third Prize in Crisis Conqueror.



Students Publication

Students publication

1. J. Bhuvaneshwarar has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
2. S. Seenivasan has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
3. M. Jeyaprakash has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
4. K. Sujitha has published a research paper in the International Conference on Advanced Material Processing and Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
5. R. Vikram has published a research paper in the International Conference on Advanced Material Processing and Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
6. S. Hariharan has published a research paper in the International Conference on Advanced Material Processing and Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
7. M. Muthaiya has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
8. M. Surya Prabaharan has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.

Students Publication

Students publication

9. K. Hariharan has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
10. V. Sethumadhavan has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
11. M. Vairavan has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
12. S. Kajendhran has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
13. K. Sivaperumal has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
14. S. Sethuraj has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
15. P. Vishwanath has published a research paper in the International Conference on Advanced Material Processing & Sustainable Energy (AMPSE-2K25). The paper was published in Volume 01, Issue No. 01.
16. V. Shanmuga Selvam has published a research paper in the International Journal of Scientific Development and Research (IJCDR-2K25). The paper was published in Volume 01, Issue No. 01.

Students Publication

Students publication

17. M. Veera Manikandan has published a research paper in the International Journal of Scientific Development and Research (IJCDR-2K2S). The paper was published in Volume 01, Issue No. 01.
18. M. Vimal Kumar has published a research paper in the International Journal of Scientific Development and Research (IJCDR-2K2S). The paper was published in Volume 01, Issue No. 01.
19. A. Bhuvanesh has published a research paper in the 3rd International Conference on Emerging Trends in Science, Technology, Engineering & Management (ICETSTEM-2K2S). The paper was published in Volume 01, Issue No. 01.
20. A. Issac Reinhard has published a research paper in the 3rd International Conference on Emerging Trends in Science, Technology, Engineering & Management (ICETSTEM-2K2S). The paper was published in Volume 01, Issue No. 01.
21. R. Manmadhan has published a research paper in the 3rd International Conference on Emerging Trends in Science, Technology, Engineering & Management (ICETSTEM-2K2S). The paper was published in Volume 01, Issue No. 01.
22. R. Rajadurai has published a research paper in the 3rd International Conference on Emerging Trends in Science, Technology, Engineering & Management (ICETSTEM-2K2S). The paper was published in Volume 01, Issue No. 01.
23. T. Prakash has published a research paper in the 3rd International Conference on Emerging Trends in Science, Technology, Engineering & Management (ICETSTEM-2K2S). The paper was published in Volume 01, Issue No. 01.

Students Publication

Students publication

24. B. Ramalaxmanaprasad has published a research paper in the 3rd International Conference on Emerging Trends in Science, Technology, Engineering & Management (ICETSTEM-2K25). The paper was published in Volume 01, Issue No. 01.

25. A. Balathulasi has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

26. C. Sam Sila Mercury has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

27. P. Anbuselvan has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

28. M. Manojkumar has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

29. V. Naveen Kumar has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

30. M. Rajkumar has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

Students Publication

Students publication

31. C. Arunpandi has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

32. P. Nishanth has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

33. P. Prem Kumar has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

34. M. Asaithambi has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

35. V. Gurusamy has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

36. K. Muneeshbabu has published a research paper in the International Conference on Recent Advancements in Management and Engineering Research (ICREAMER-2025). The paper was published in Volume 01, Issue No. 01.

Students Publication

Students Publication

31. S. Kajendhran has published a research paper in the 3rd International Conference on Emerging Trends in Science, Technology, Engineering & Management (ICETSTEM-2K25). The paper was published in Volume 01, Issue No. 01.

32. K. Madhubala has published a research paper in the 3rd International Conference on Emerging Trends in Science, Technology, Engineering & Management (ICETSTEM-2K25). The paper was published in Volume 01, Issue No. 01.

33. M. Vishnu has published a research paper in the 3rd International Conference on Emerging Trends in Science, Technology, Engineering & Management (ICETSTEM-2K25). The paper was published in Volume 01, Issue No. 01.



Industrial visit@kerala

Anna Aluminum co. Pvt. Ltd., Kochi, Kerala.

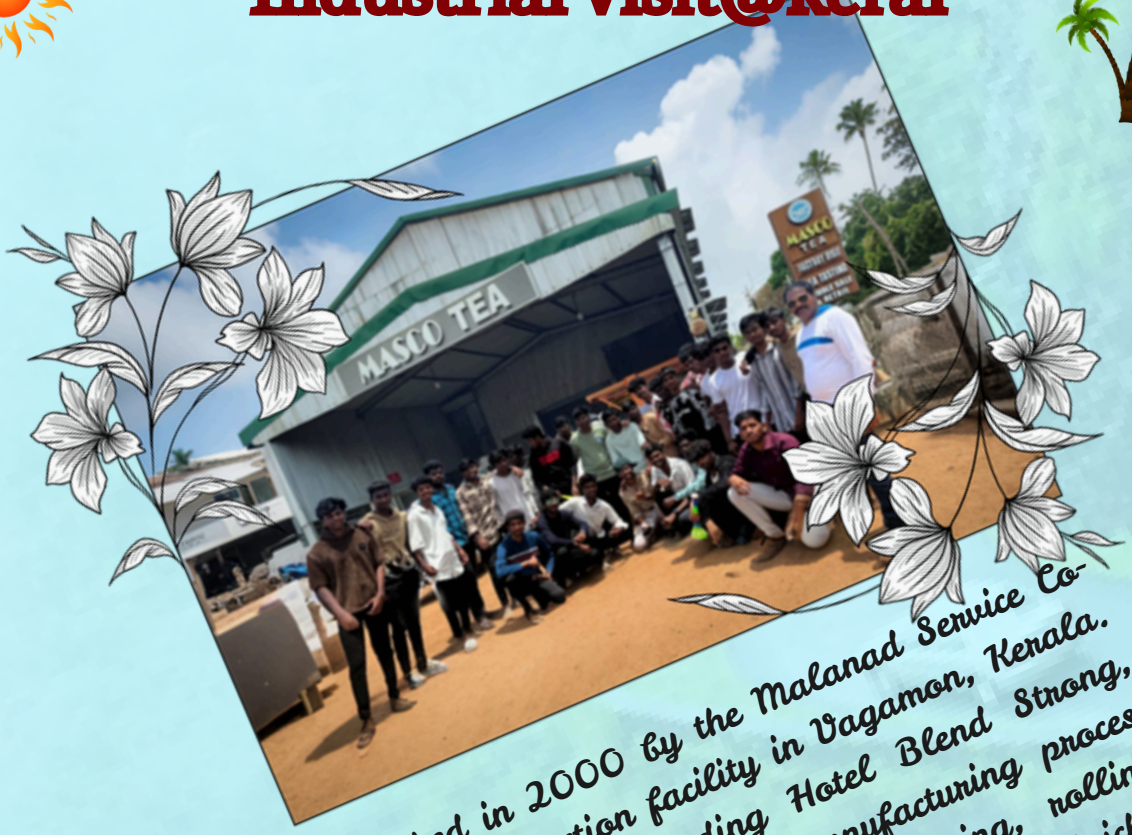


The Department of Mechanical Engineering organized an industrial visit for II-year students to Anna Aluminium Company, located at Kizhakkambalam (P.O), Aluva, Ernakulam, Kerala, on 20th March 2025. This visit was aimed at providing practical exposure to modern manufacturing processes, specifically die casting technology, and understanding the integrated quality systems adopted in aluminum product manufacturing.



Industrial visit@keral

Masco Tea Factory, vagamon, Kerala.



Masco Tea Factory, established in 2000 by the Malanad Service Co-operative Bank Ltd., is a tea production facility in Vagamon, Kerala. The factory produces organic teas, including Hotel Blend Strong, Home Taste, and Premium varieties. The tea manufacturing process involves several key steps, including plucking, withering, rolling, oxidation, drying, and sorting. Tender tea leaves are handpicked, withered, rolled, oxidized, dried, and sorted based on size and quality before packaging. Our students witness these processes through their supervison which provide insights into traditional tea production methods.



Industrial visit

Idhayam Oil Mill & Sega Plastic Company



As part of our curriculum to bridge the gap between theoretical knowledge and industrial practices, an industrial visit was organized on 4th April 2025 to two well-established industries in Virudhunagar — Idhayam Oil Mill and Sega Plastic Company. The visit was highly insightful and provided students with a better understanding of industrial workflows, modern machinery, and production techniques. This visit significantly enhanced our understanding of industrial manufacturing processes, operational safety, and the role of automation and quality control. We sincerely thank Idhayam Oil Mill and Sega Plastic Company for their warm welcome, detailed explanation, and continuous efforts in supporting student learning.



Editorial Board



Faculty members	Dr.R.SELVABHARATHI Professor/HoD/Mech Mr.M.NAGENDRAN AP/Mech
Students members	Mr.R. VICKRAM - IV year Mech. MrS. .EZHILARASAN - III Year Mech. Mr.M.KAMALESH II Year Mech





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