



IMPACT NEWS LETTER

Issue #1



July 2025 – December 2025

KCG Nagar, Old Mahabalipuram Road, Karapakkam,
Chennai-600 097 www.kcgcollege.ac.in

Vision of the Department

The department aspires to become a globally recognized centre of excellence by producing competent professionals in Mechanical Engineering to serve as a valuable resource for industry and society.

Mission of the Department

- ◆ Impart intellectually rigorous and holistic education to the students in the field of Mechanical Engineering.
- ◆ Establish state-of-the-art facilities for research and consultancy work.
- ◆ Enhance the knowledge and skills of the faculty with the latest advancements in the mechanical engineering domain.
- ◆ Mentor the students to develop research and entrepreneurial capabilities.
- ◆ Inculcate a high degree of professionalism and contribute to the needs of industry and society.

Programme Educational Objectives

The graduates after completion of the degree will

PEO1	Excel as competent professional or entrepreneur or researcher in related fields of Mechanical Engineering.
PEO2	Analyze, design/develop innovative solutions for real world engineering problems using appropriate modern tools.
PEO3	Exhibit professionalism, ethical attitude and adapt to the changes in the industry and society supporting sustainable development.
PEO4	Lead and manage teams for effective execution of projects.

From the Editor's Desk

Hello everyone,

We, the Mechanical Engineers, are delighted to present this edition of our department newsletter IMPACT for the year 2025. This issue highlights the various noteworthy activities and accomplishments of our department, showcasing the vibrant academic and co-curricular environment that defines us.

Through these pages, you will find comprehensive coverage of events, student initiatives, innovative projects, faculty achievements, and collaborative efforts that reflect the spirit of growth and excellence within our department.

It is truly heartening to witness the enthusiasm and dedication of all contributors who made this publication possible. The Editorial Board sincerely appreciates the valuable time and effort invested by everyone involved in bringing this edition to life.

With Warm regards,
Editorial Team – IMPACT

Editorial Board

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ABDUL GHAFAR SHAKIR I – IV Year Mechanical Engg.

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ALICE MARIYA W – III Year Mechanical Engg.
KOUSHIK SCINDE P – II Year Mechanical Engg.
DEVIKA M – II Year Mechanical Engg.

About the Department

Established in 1998 and permanently affiliated with Anna University, the Department of Mechanical Engineering has steadily evolved into a centre of academic excellence and professional learning. The department is committed to delivering outcome-based education that nurtures strong technical foundations, ethical values, and professional competence, enabling students to meet contemporary engineering challenges with confidence.

To address the dynamic needs of industry and society, the department continuously updates its curriculum in alignment with emerging technologies, sustainable engineering practices, and Industry 4.0 trends. Teaching-learning activities are structured across the core domains of Design Engineering, Manufacturing Engineering, and Thermal Engineering, and are strengthened through state-of-the-art laboratories, experiential learning methodologies, and project-centric pedagogy. Students are actively encouraged to apply theoretical concepts through internships, industry-integrated projects, and hands-on laboratory work, enhancing their analytical thinking, problem-solving skills, and design capabilities.

During the period July 2025 to December 2025, the department organized and supported a wide range of academic, professional, and co-curricular activities, including workshops, seminars, expert lectures, industrial visits, internships, project reviews, and faculty development programmes. Student professional bodies such as SAE, ASHRAE, and the IEI Students' Chapter played a vital role in fostering technical awareness, leadership qualities, teamwork, and professional ethics among students.

The department also maintained active engagement as a partner institution of IIT-PALS, facilitating student and faculty participation in masterclasses, advanced technical lectures, mentoring sessions, and innovation-driven programmes. These initiatives provided exposure to cutting-edge engineering concepts, research insights, and best practices from IIT faculty and industry experts.

In line with the United Nations Sustainable Development Goals (SDGs), the department integrated sustainability across curriculum delivery, research activities, student projects, and extension programmes. Focus areas during the reporting period included energy efficiency, sustainable manufacturing, renewable energy systems, materials optimization, and environmentally responsible design, contributing directly to SDG 4 (Quality Education), SDG 7 (Affordable and Clean Energy), SDG 9 (Industry, Innovation and Infrastructure), and SDG 12 (Responsible Consumption and Production). Student projects, research publications, workshops, and outreach events were aligned to promote sustainable engineering solutions and societal impact.

Supported by a dedicated faculty team, strong industry collaboration, and a culture of continuous improvement, the Department of Mechanical Engineering remains steadfast in its mission to develop competent, socially responsible, and globally competitive engineering professionals, prepared to contribute meaningfully to industry, research, and sustainable development.

Academic Toppers

2024-2025 (Even Semester)

IV Sem

First Place



MANU PARTHASARATHY
(9.48 GPA)

Second Place



SIVANI S
(8.4 GPA)

VI Sem

First Place



HEMANATHAN SHENOYS
(8.92 GPA)

Second Place



LIYAN AKASH
(8.09 GPA)

VIII Sem

First Place



SRI SURYA S
(8.49 GPA)

Second Place



HARRISH KISHORE
(8.15 GPA)

Guest Lectures/Seminars/Workshops

Seminar on “Robotic Surface Preparation & Advanced Surface Treatment”

The Department of Mechanical Engineering organized a seminar on “Robotic Surface Preparation & Advanced Surface Treatment” on 28 July 2025 under the IE(I) Students Chapter at KCG College of Technology. The session was delivered by Mr. Johnson Mathew, General Manager, Airblast Group of Companies, Saudi Arabia and a distinguished alumnus of the department. He explained the role of robotic automation in surface preparation processes such as blasting, coating, and advanced treatment techniques. The seminar highlighted current industrial standards, automation trends and technological advancements improving productivity, quality, and sustainability. Practical case studies helped students understand applications in aerospace, automotive, and heavy engineering sectors. Overall, the seminar enriched students’ knowledge and motivated them to explore careers in robotics, automation, and advanced manufacturing.



Expert Talk on “AI in HVAC Industry: Past, Present & Future”

The Department of Mechanical Engineering, along with the ASHRAE Chennai Chapter and ASHRAE KCG Tech Student Branch, organized an expert talk on “AI in HVAC Industry: Past, Present & Future” on 9 September 2025. The session was delivered by Dr. Krishnan Gowri, Senior Engineering Fellow and Fellow of ASHRAE. He explained how AI is transforming HVAC design, operational efficiency, predictive maintenance, and smart energy management.

The talk also highlighted global advancements and emerging trends in intelligent, sustainable building systems. Overall, the session provided students with valuable exposure to cutting-edge AI applications in the HVAC industry.



Guest Lecture on “SAP ERP in Supply Chain Management”

The Department of Mechanical Engineering organized a Guest Lecture under the banner of IE(I) Students Chapter on “SAP ERP in Supply Chain Management” on 10 September 2025 at KCG College of Technology.

The session was delivered by Mr. Swaminath Kandaswamy, Managing Director, LEARN2WIN, who shared his extensive industry experience in enterprise systems and supply chain transformation. He explained the role of SAP ERP in optimizing supply chain operations through effective integration of procurement, production planning, inventory management, and logistics processes.

The lecture provided students with practical insights into how enterprise resource planning tools enhance operational efficiency, data-driven decision-making, and coordination across functional units in modern manufacturing organizations. The session also highlighted the relevance of SAP ERP in addressing real-world industrial challenges and improving competitiveness in today's digital supply chain environment.

Overall, the guest lecture was highly informative and enabled students to gain a clear understanding of the application of ERP systems in contemporary manufacturing and logistics management.



Skill Development Workshop on “NDT Techniques”

The Department of Mechanical Engineering conducted a one-day Skill Development Workshop on “Non-Destructive Testing (NDT) Techniques” for Final Year Mechanical Engineering students and students from other departments who had registered for the Open Elective course “Introduction to Non-Destructive Testing.”

The workshop included an intensive practical training session, during which students were introduced to the following NDT techniques:

- ◆ Visual Testing (VT)
- ◆ Liquid Penetrant Testing (LPT) – Visible and Fluorescent methods
- ◆ Magnetic Particle Testing (MPT) – Dry and Wet methods
- ◆ Ultrasonic Testing (UT) – Flaw detection and thickness measurement
- ◆ Radiographic Testing (RT) – Film interpretation

The hands-on sessions enabled students to understand the principles, applications, and industrial relevance of each technique, thereby enhancing their practical skills and employability readiness in inspection and quality engineering domains.



IET Sponsored FDP on “Building Sustainable Smart Industries: Industry 4.0 FDP for Manufacturing, Mobility and Automation”

The Departments of Automobile, Mechanical, and Mechatronics Engineering jointly organized an IET-Sponsored Faculty Development Programme (FDP) titled “Building Sustainable Smart Industries: Industry 4.0 for Manufacturing, Mobility and Automation” from 7th to 11th July 2025. The five-day FDP provided faculty members with valuable exposure to Industry 4.0 technologies such as IoT, AI, data analytics, cyber-physical systems, and intelligent automation. Experts from academia and industry delivered sessions with real-time case studies on smart manufacturing, sustainable practices, and advanced mobility solutions. The programme emphasized digital

Transformation for improving productivity, energy efficiency, and reducing environmental impact, aligning with UN Sustainable Development Goals. Interactive discussions helped participants explore curriculum enrichment, interdisciplinary research, and industry-integrated teaching. Overall, the FDP strengthened faculty competencies in sustainable smart industrial solutions and future-ready engineering education.



Inaugural Address by Mr. Manoharan Doraisamy, Lead, Ashley GCC
Session by Dr. Pratheesh on "Agile Manufacturing"

ENGENIUS' 25

As part of KCG Engenius'25, held on August 30, 2025, the Department of Mechanical Engineering, KCG College of Technology, organized an interactive laboratory visit for school students.

The students were taken on a guided tour of the department's laboratories, where they were introduced to various machining equipment, tools, and manufacturing processes. Faculty members explained the working principles of different machines and highlighted the role of Mechanical Engineering in modern industry and technological advancements.

The visit was designed to ignite curiosity and inspire young minds by providing early exposure to engineering concepts and real-world applications. The initiative helped students appreciate the significance of engineering in developing innovative and sustainable solutions for the future, reinforcing the institution's commitment to outreach and STEM education.



Students Participation and Achievements

The students of the Department of Mechanical Engineering actively participated in a wide range of academic, technical, professional, and co-curricular activities during the academic period, showcasing their enthusiasm for learning beyond the classroom and their commitment to holistic development.

Students Participation – Orientation Program

An Orientation Program on “Shaping the Future of Advanced Manufacturing with the 3D Experience Platform” was conducted on 26th August 2025 in collaboration with TANCAM, with support from industry experts. The programme was inaugurated by the Chief Guest, Mrs. Thendral Rajendran, Vice President – Corporate & Industry Relations, who highlighted emerging opportunities in advanced manufacturing and the importance of industry-academia collaboration. The session provided students with exposure to digital manufacturing tools and explained how 3DExperience Platforms are transforming product design, simulation, manufacturing integration, and lifecycle management. Students from II and III Year Mechanical, Aeronautical, and Aerospace Engineering actively participated and gained insights into real-world industrial applications. Overall, the program strengthened students’ industry-relevant skills, encouraged innovation, and supported sustainable technology-driven engineering careers.



Students Participation – Tech Talk

Faculty members and students from the Departments of Aeronautical, Mechanical, Mechatronics and AI & Data Science participated in a Tech Talk on “Future of Engineering with AI”, delivered by Mr. Cédric Buzay, Global Business Development, Dassault Systèmes, France. The session was held on 9th October 2025 at TANCAM, TIDEL Park, Chennai, with five faculty members and twenty-five students from KCG College of Technology attending. The talk highlighted AI-driven engineering solutions such as intelligent design, advanced simulation, digital twins, and digital transformation in industries. Participants gained valuable insights into global trends and the future scope of AI in engineering education and practice. Overall, the event strengthened collaboration with TANCAM and Dassault Systèmes, supporting industry-aligned learning and innovation.

Students Participation – Paper Presentation

Students from the Department of Mechanical Engineering, KCG College of Technology, actively participated in the National Level Technical Symposium – TEPIC’25, organized by CIPET– Institute of Plastics Technology, Chennai, on 19th September 2025. The students presented a technical paper titled “Morphing Wind Turbine Blades for Enhanced Efficiency”, focusing on innovative adaptive blade technologies to improve aerodynamic performance and maximize energy output. The work aligned with UN Sustainable Development Goals, especially SDG 7 (Affordable and Clean Energy) and SDG 9 (Industry, Innovation and Infrastructure). The symposium provided students with a valuable platform to showcase research-based solutions for sustainability challenges. Overall, the participation enhanced their technical knowledge, research aptitude, and professional communication skills.



Students from the Department of Mechanical Engineering, KCG College of Technology, actively participated in the International Conference on Recent Trends in Mechanical Engineering (ICRTME 2025), organized by VISTAS, Chennai, on 24th and 25th September 2025. They presented a research paper titled "Effect of Process Parameters on the Characteristics of Wire Arc Additive Manufactured Stainless Steel Parts", focusing on optimizing WAAM process parameters to improve material properties and part quality. The work aligned with SDG 9 and SDG 12 by promoting innovative and sustainable manufacturing practices. The conference provided students with a valuable platform to share research findings and interact with academicians and industry experts. Additionally, III Year students R. N. Lingeshwaran and A. Venkateshpresented a paper on "Design and Analysis of Tipper Chassis Frame with Internal Flitch", enhancing their research exposure and professional skills.



Students Participation – Industrial Visits

The Department of Mechanical Engineering, KCG College of Technology, organized industrial visits to the Integral Coach Factory (ICF), Chennai, on 22nd July 2025 for Third and Final Year students and on 9th September 2025 for Second Year students. During the visits, students gained first-hand exposure to rail coach manufacturing processes such as fabrication, assembly, automation, and quality inspection practices. The real-time industrial environment helped students understand advanced manufacturing technologies, process optimization and strict quality standards followed in large-scale industries. The program also included a visit to the Chennai Rail Museum, where students learned about the evolution of Indian Railways and sustainable rail transport systems. Overall, the visits effectively bridged theoretical knowledge with practical learning and aligned with SDG 9 and SDG 11 by promoting sustainable industrial development and eco-friendly transportation awareness.



Students from the Department of Mechanical Engineering, KCG College of Technology, visited the North Chennai Thermal Power Station (NCTPS-I), Puzhuthivakkam, Tamil Nadu, on 31st July 2025 as part of their industrial visit program. The visit provided practical exposure to thermal power generation processes such as boiler operations, steam turbines, condenser systems, and power distribution mechanisms. Engineers explained the plant's complete operational workflow, along with maintenance practices, safety protocols, and environmental management systems. The visit strengthened students' understanding of energy conversion, thermodynamics, and mechanical systems used in power engineering. Overall, the activity aligned with SDG 7 and SDG 9 by promoting awareness of efficient energy production and modern industrial infrastructure.



Students Participation – Internship

Students from the Department of Mechanical Engineering, KCG College of Technology, successfully completed internships in various reputed core and allied engineering industries as part of their practical learning and industry exposure programme. The internships provided hands-on experience in manufacturing, thermal systems, product design, quality control, automation, maintenance, and shop-floor operations, helping students bridge the gap between theory and real-world industrial practices. Students gained technical competence, problem-solving skills, teamwork, and professional ethics, preparing them for future engineering careers. Training was undertaken in leading organizations such as Hyundai Motors, Grundfos Pumps, NSIC, Rane, Enmac Systems, SPIC, Schwing Stetter, and many others. These internship activities aligned with SDG 4, SDG 8, and SDG 9 by promoting quality education, skill development, employability, and exposure to modern industrial innovation.



Students Participation – ASHRAE EDGE'25 Conference

The Department of Mechanical Engineering, KCG College of Technology, actively participated in ASHRAE EDGE'25, a technical conference on Decarbonization, Energy Efficiency, Sustainability, Innovation, Resilience, and Empowerment, held on 4th July 2025 at Hyatt Regency, Chennai. A team of five Final Year students and one Third Year student, accompanied by Mr. L. Ramesh Krishnan, Assistant Professor, attended the event organized by the ASHRAE Chennai Chapter with the ASHRAE KCG Tech Student Branch.

The conference featured expert talks and panel discussions on energy-efficient HVAC systems, decarbonization strategies, sustainable building design, and resilient infrastructure. Students gained valuable exposure to real-world challenges, industry expectations, and innovative solutions in the HVAC sector. The participation enhanced students' technical awareness and aligned with SDG 7, SDG 9, and SDG 11 by promoting clean energy, sustainable infrastructure, and eco-friendly cities.



ASHRAE student members from the Department of Mechanical Engineering, KCG College of Technology attended a Distinguished Lecture (DL) titled "Natural Refrigerants – A Path to Decarbonization", organized by the ASHRAE Chennai Chapter on 19th July 2025 at Linde Hall, CEG Campus, Anna University, Chennai.



Chemical Chapter ASHRAE
July 10th, 2023



BRUCE V. NELSON
ENGINEERING, LLC

Natural Refrigerants – A Path to Decarbonization





- Bruce V. Nelson, P.E., CDR
- Consulting engineering services
- (1985) – 2021: Colburn Consulting, Inc.
- (2022) – Life Member
- ASHRAE (1982) – Vice Chair (2016-2022)
- P.E. (1991-2008)
- ASHRAE, P.E. (2008)
- Author: Innovation, Inc., GreenSource
- www.bvnengineering.com



Engineer's Day Celebration 2025 was jointly organized by the Mechanical and Aeronautical & Aerospace Engineering Departments on 15th September 2025 at KCG College of Technology. Chief Guests Mr. M. Joel Franklin Asaria and Mr. Albert Groothedde delivered inspiring talks on innovation and sustainable development. Students from various departments actively participated, including speeches by Vedhan (II Year Mechanical) and Aeronautical students. A technical quiz was conducted, and prizes and certificates were awarded to the winners. Hemanathan Shenoy won First Place, while Sabarikrishnan and T. Swarnesh jointly secured Second Place from Mechanical Engineering.



On 16th December 2025, a panel discussion on the theme “Cyber Threats in an Automated World: Impact on Vehicles, Robotics and Manufacturing” was conducted at KMC Auditorium, sponsored by IET (The Institution of Engineering and Technology) as part of the Industry Institution Summit 7.0.

Third year and final year Mechanical Engineering students actively participated and benefited from expert insights on cybersecurity challenges, automation risks, and resilience strategies in modern manufacturing and intelligent systems.

Students Participation – Other Activities

- ◆ Five students from III year Mechanical, Alice Marya, Vasanthraj, Saravanan, Venkatesan and Lingeswaran participated in the One Day Seminar on the topic “Innovations and Best Practices in Production Management”@ Jerusalem College of Engineering, Organised by IE(I) – Kancheepuram Local Centre on 24/07/2025.
- ◆ Members of the KCG Tech ASHRAE Student Chapter (Mechanical Engineering) participated in SEED 2025 – International Conference on Sustainability, Energy Efficiency, and Decarbonization, organized by L&T Construction (Buildings & Factories) in association with the ASHRAE Chennai Chapter, held on 15 November 2025 at the L&T Convention Hall, Manapakkam, Chennai. A total of 19 ASHRAE student members, accompanied by Mr. Ramesh Krishnan, Assistant Professor, Mechanical Engineering, attended the conference. The event featured expert talks, technical presentations, and panel discussions focusing on sustainable HVAC system design and decarbonization technologies, providing valuable exposure to emerging industry trends and sustainable engineering practices.
- ◆ A T2P Lecture on “Bridging Engineering and Medical Innovation” was organized for II Year Mechanical Engineering students on 22 July 2025. The session was delivered by Dr. Maluk Mohamed, Co-Founder and Global Vice President (Research) & Head, Twin India. The lecture provided valuable insights into the interdisciplinary role of mechanical engineering in medical innovation and emerging healthcare technologies.
- ◆ 36 Students from the Department of Mechanical Engineering have completed the NPTEL courses during the period July 2025 – December 2025.
- ◆ Ten ASHRAE student members accompanied by Mr. Ramesh Krishnan, Assistant Professor, Mechanical Engineering, from the Department of Mechanical Engineering participated in the “Refrigeration Skills Workshop – Part 02”, organized by the ISHRAE Chennai Chapter in association with the ASHRAE Chennai Chapter, on 20 December 2025 at the Hindustan Chamber of Commerce, Thousand Lights, Chennai. The workshop provided practical insights into modern refrigeration practices and industry standards.
- ◆ Devika M, II Year Mechanical Engineering, secured First Place at the Residential Student Workshop conducted by IIT Madras – PALS, held from 22nd to 24th December 2025, for the project titled “Predicting IPL Team Match Wins.” This achievement reflects her strong analytical ability and interdisciplinary problem-solving skills.

Students Achievements – India Design Week 2025

E. Harini and E. Hemanathan, students of Mechanical Engineering Department, received the Special Recognition Award at India Design Week 2025 for their innovative and creative design project. The prestigious event, organized by ICT Academy in collaboration with Autodesk, provided a national platform for young designers to showcase their creativity, technical expertise, and problem-solving abilities.

Their achievement reflects the Department of Mechanical Engineering’s strong emphasis on innovation, design thinking, and the practical application of engineering knowledge, while encouraging students to engage in industry-oriented challenges and emerging design technologies.



Students Achievements – Autodesk Skill Surge Inter-State Design Challenge 2025

III and IV Year Mechanical Engineering students achieved a remarkable success by winning the First Runner-Up position in the Autodesk Skill Surge Inter-State Design Challenge. E. Harini (IV Year) and E. Hemanathan (III Year) secured the award and a cash prize of ₹20,000 at the national-level competition held on 14th September 2025 at KIIT University, Bhubaneswar. Out of 851 registered teams, only 59 teams were shortlisted for the final round, making their achievement highly commendable. The students showcased outstanding creativity, design skills, and proficiency in advanced digital design tools. This success reflects the department's strong focus on innovation, hands-on learning, and industry-relevant skill development.



Students Achievements – PALS ANALYZE 2025 Competition @ IIT Madras

The Department of Mechanical Engineering proudly announces that Team AYRUS secured the Third Place in the PALS ANALYZE 2025 competition, conducted by IIT Madras – PALS on 25th September 2025. The team presented an innovative project titled “Effective Melt Process Control Technology in Grey Iron Foundries,” focusing on improving process efficiency, quality control, and operational reliability in foundry operations. The project addressed key industrial challenges related to melt quality consistency, energy optimization, and defect reduction, demonstrating strong application of engineering principles to real-world manufacturing problems.

Team AYRUS – Members:

Koushik Scinde P – II Year Mechanical Engineering

Surya G – II Year Mechanical Engineering

Sriram M – II Year Mechanical Engineering

Gokul D – II Year Mechanical Engineering

This achievement reflects the students' technical competence, teamwork, and innovative thinking, and highlights the Department's emphasis on experiential learning, industry-oriented problem solving and research-driven innovation. The project aligns with UN Sustainable Development Goal (SDG) 9 – Industry, Innovation and Infrastructure through the adoption of advanced process control techniques, and SDG 12 – Responsible Consumption and Production by promoting efficient material usage, quality enhancement, and reduction of defects and wastage in foundry manufacturing.



Students Achievements – Smart India Hackathon (SIH) 2025

The Department of Mechanical Engineering proudly announces that Team KINETIQ emerged as the Winner of the Smart India Hackathon (SIH) 2025 – Hardware Edition, held from 8th to 12th December 2025 and organized by AICTE, MoE's Innovation Cell, and Autodesk. The team secured a cash prize of ₹1,50,000 by winning the top position among 250 participating teams, with only five shortlisted for the finals. Their award-winning project, "Research and Redesign of Sports Equipment using Fusion Software", focused on innovative redesign through advanced

digital tools. The team was led by Sheik Shajid Bhasha with members from Mechanical, Aeronautical, and Automobile Engineering, and was mentored by Dr. M. Vignesh Kumar. This national-level achievement reflects the institution's commitment to innovation, interdisciplinary teamwork, and industry-driven learning.



The institution proudly announces that Team Macgyver emerged as a Joint Winner of the Smart India Hackathon (SIH) 2025 – Hardware Edition, organized by AICTE and the Ministry of Education's Innovation Cell, with the final results declared on 12 December 2025. The team secured a cash prize of ₹75,000, marking a notable national-level achievement.

Out of 167 teams that participated nationwide, only five teams were shortlisted for the finals. Team Macgyver impressed the jury with their innovative project titled "Macgyver – An Unauthorized Electric Fence Detector," which focused on enhancing safety through smart sensing and detection technologies. The team was led by Abhiranjan Kumar (IV Year – Electrical and Electronics Engineering) and comprised Jebadurai C. M., Alwin Raj B,

and Kuganesh R. (IV Year – EEE), Swetha B. (IV Year – Information Technology), and Venkatraman Kesavan (IV Year – Mechanical Engineering). The team was ably mentored by Dr. Karthikeyan K, Associate Professor, EEE, and Dr. Balavignesh S, Assistant Professor, EEE.



This achievement reflects the students' strong capabilities in innovation, interdisciplinary teamwork, and problem-solving, and reinforces the institution's commitment to fostering technology-driven solutions for real-world challenges.

Faculty Participations and Achievements

Faculty Participations

- ◆ Mr. Manikandan, Assistant Professor – Mechanical Engineering is awarded as “Top Performing Mentor” with Certificate of Appreciation in recognition of his role as Mentor for the NPTEL Online Certification Course “Industrial Safety Engineering” during the period JUL – DEC 2025.
- ◆ Dr. S Kaliappan, Professor – Mechanical Engineering is awarded with Certificate of Appreciation in recognition of his role as Mentor for the NPTEL Online Certification Course “Physics of Renewable Energy Systems” during the period JUL – DEC 2025.
- ◆ Dr. S Jesudass Thomas, Associate Professor – Mechanical Engineering is awarded with Certificate of Appreciation in recognition of his role as Mentor for the NPTEL Online Certification Course “Product Design and Development” during the period JUL – DEC 2025.
- ◆ Mr. L. Ramesh Krishnan, Assistant Professor, Department of Mechanical Engineering, successfully participated in an Online Refresher Course on “Fluid Mechanics in Action: Principles, Advances and Applications”, organized by the Malaviya Mission Teacher Training Centre, IIT (ISM) Dhanbad, from 15 to 26 September 2025. He secured Grade ‘A’, reflecting his commitment to continuous professional development and academic excellence.
- ◆ Dr. S Kaliappan, Professor – Mechanical Engineering participated on the Six Day Virtual FDP on “Innovations in Advanced Materials, Optimization and Sustainable Energy Systems” from 15/12/2025 to 20/12/2025 at SRM University – Ramapuram Campus.
- ◆ Dr. V Gopal, Assistant Professor, Department of Mechanical Engineering, participated in a National Level Faculty Development Programme on “Artificial Intelligence for Mechanical Industry”, organized by Dr. M.G.R. Educational and Research Institute, from 15 to 19 December 2025.
- ◆ Mr. S Saravanan, Assistant Professor, Department of Mechanical Engineering, participated in the Three Day faculty Workshop on Autodesk Product Design Engineering using Fusion from 8th December to 10th December, 2025 at St. Joseph’s Institute of Technology, Chennai.
- ◆ Dr. S Jesudass Thomas, Dr. M Vignesh Kumar and Dr. P S Gowthaman Palraj, participated in the Three Days Virtual FDP on THE WORLD OF STEEL: PROPERTIES, PROCESSES & PRODUCTS, presented by Dr. D. Ravichandar, Industrial & Educational Consultant, Former CEO – JSW Salem Works, Author & Visiting Faculty, from 28th – 30th July 2025.
- ◆ A faculty development session on “Entrepreneurship and Start-up” was conducted on 27 September 2025 at the Bosch Lab. The session was delivered by Mr. Rahul Bagga, an eminent Patent Attorney and legal professional with extensive experience in international patent filing and dispute resolution. The informative session provided valuable insights into intellectual property and startup ecosystems and was effectively coordinated by Dr. Z. Edward Kennedy, Professor, Department of Mechanical Engineering.

Faculty Achievements – Awards

Dr. M. Vignesh Kumar, Associate Professor, Department of Mechanical Engineering, was honoured with the Dr. Kalam Best Mentor Award 2025 by the World Youth Federation on 15th October 2025. The award recognizes his outstanding mentorship, dedication to student development, and contributions toward innovation, leadership, and professional excellence.



Faculty Achievements – Publications

The Department of Mechanical Engineering proudly reports that 46 research papers have been published by its faculty members in reputed national and international journals and conference proceedings during the period between July 2025 and December 2025, reflecting the department's strong research culture and commitment to academic excellence. The department also congratulates Dr. S. Kaliappan, Professor, on being recognized among the Top 2% Scientists in the World by Stanford University, with his name listed in the Elsevier Data Repository. This prestigious recognition highlights his significant contributions to high-impact research, innovation, and scholarly excellence in Mechanical Engineering.



The Department of Mechanical Engineering was honored with the "Best Research Department" Award for the second consecutive year, presented by the Chairman, Dr. Anand Jacob Verghese, HGI, during the Teachers' Day Celebration held on 5th September 2025. This recognition reflects the department's sustained excellence in research output, high-quality publications, and scholarly contributions. The department expresses its sincere appreciation to all faculty members for their consistent efforts and commitment, which have collectively contributed to this achievement.



Faculty Achievements – Empowering Innovators

The Tamil Nadu Global Startup Summit 2025 (TNGSS 2025) was held on 9–10 October 2025 at the CODISSIA Trade Fair Complex, Coimbatore, organized by StartupTN, Government of Tamil Nadu. With the theme "Disrupt to Rise," the summit served as a global platform bringing together startups, investors, industry leaders, policymakers, and innovators to foster entrepreneurship and innovation across key sectors including deep-tech, robotics, climate technology, health technology, and agri-innovation.

The summit offered significant opportunities for startups and student innovators to showcase their ideas, engage with global stakeholders, and explore avenues for funding, incubation, and technology commercialization. Dr. D. Easu and Dr. M. Vignesh Kumar, Dr. R Chandramohan, Dean – IP & CA from the Department of Mechanical Engineering and Dr. Solai Manohar, Dean – IEDC, along with our respected Director Madam, actively participated in the summit, gaining valuable insights into emerging startup ecosystems, innovation policies, and industry-academia collaboration.



Faculty Achievements – Tamil Nadu Technology (iTNT) IP Conclave

Dr. D. Easu, Associate Professor, Mechanical Engineering, was felicitated as part of the BEACON Cohort 4 at the Innovate in Tamil Nadu (IN2TN) IP Conclave, held under the Tamil Nadu Technology (iTNT) Hub initiative. The BEACON graduation was facilitated by Hon'ble Deputy Chief Minister Thiru. Udhayanidhi Stalin, reinforcing the state's focus on strengthening innovation ecosystems, intellectual property awareness, and industry-academia collaborations.



Faculty Achievements – Patent Publications

- ◆ Dr. G. Prabhakaran, Professor & Dean – Academics, has successfully published a design patent titled “Multi-Channel Equal Angular Extrusion Die (Set)” (Design No. 389677-001, dated 06/07/2023), which was granted on 11/12/2025. The patent reflects his contribution to advanced manufacturing and material processing technologies.
- ◆ Dr. S. Kaliappan, Professor of Mechanical Engineering, has been granted a design patent titled “Robotic Hole Drilling with Motorised Lead Screw System” (Design No. 399211-001, dated 04/11/2023), published on 05/12/2025. This innovation highlights his work in automation and robotics-driven manufacturing solutions.
- ◆ Dr. V. Gopal, Assistant Professor, Department of Mechanical Engineering, has successfully published a patent titled “Smart Thermal Insulation System for Energy-Efficient Buildings with Automated Control and Monitoring” on 25 July 2025. This achievement reflects his contribution to sustainable building technologies and energy-efficient systems.

Students Placement

Students of the Department of Mechanical Engineering have achieved commendable success in the 2025 campus placement drive, securing positions in several reputed core and allied engineering organizations. Leading companies that recruited our students include Daikin Air Conditioning India Pvt. Ltd., Thejo Engineering Ltd., Simpson & Company Limited, Gsons Industries Pvt. Ltd., Precision Equipments (PECPL), TVS Educational Society, ACS Test Chambers, Sustainable Skill Capital Pvt. Ltd., PUBS Engineering Pvt. Ltd., Lucas TVS, and PAPL Corp Pvt. Ltd. These placements reflect the department’s strong academic foundation, industry-aligned curriculum, and sustained efforts in enhancing students’ technical competence, employability skills, and professional readiness.



Alumni Meet'25

The Alumni Meet 2025 was successfully organized at KCG College of Technology on 23rd August 2025 with active participation from Mechanical Engineering alumni, faculty, and students. The event provided a platform for alumni to reconnect with the department and share their professional journeys, industry experiences, and career guidance. The interactions strengthened alumni–student bonding, encouraged mentorship, and created opportunities for internships and industry collaboration. The Department of Mechanical Engineering received a special award for the highest alumni participation, reflecting strong alumni engagement and loyalty. Overall, the meet reaffirmed the department's commitment to building lifelong alumni relationships for continuous growth and development.

