



DEPT OF MECHANICAL ENGINEERING

July – December 2025

Alumni Guest Lecture – “Pursuing Higher Studies”

The Department of Mechanical Engineering organized an alumni guest lecture on “Pursuing Higher Studies” on 7th August 2025. The session was delivered by **Mr. Ranjithkumar A**, an alumnus of the 2018–2022 batch, currently pursuing a master’s degree in Sustainable Energy Systems at KTH Royal Institute of Technology, Sweden.

Mr. Ranjithkumar shared valuable insights into preparing for higher education abroad, covering topics such as university shortlisting, statement of purpose (SOP) writing, securing recommendations, and scholarship opportunities. He also discussed application timelines, standardized test preparation, and adapting to new cultural and academic environments.

The interactive session enabled students to clarify doubts about study-abroad processes, equipping them with practical tips and strategies for a smooth transition to international higher studies.

Alumni Silver Jubilee Interaction Session – 1996-2000 Batch

The Department of Mechanical Engineering hosted the Silver Jubilee Alumni Interaction Session for the **1996–2000 batch** on 19th July 2025 at the Mechanical Department, A107. The event brought together alumni, current students, and faculty for an enriching exchange of ideas focusing on career guidance, academic growth, financial literacy, and personal development in a rapidly evolving professional landscape.





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The session opened with a warm welcome and a brief introduction of the alumni, highlighting their professional achievements across sectors such as manufacturing, IT, automotive, finance, and entrepreneurship. This was followed by interactive discussions focusing on career guidance, academic growth, financial literacy, and personal development in today's fast-changing industrial and business environment.

The event was further enriched with an open Q&A session, where students sought advice on industry readiness, skill enhancement, and navigating career transitions. The alumni's candid sharing of workplace experiences, challenges, and success stories provided both inspiration and practical takeaways.

STUDENTS PROGRAMS ORGANISED

An Awareness Program on "Wellness Within" was conducted on 12th August 2025 at KCT, coordinated by Dr. K. Krishnamoorthi, Assistant Professor – III, Dr. A. P. Arun, Assistant Professor – III and Mr. R. S. Mohankumar, Assistant Professor – II, with Dr. C. Gnanaprakash, M.Sc., Ph.D. as the resource person. The event engaged 55 participants in discussions on physical and mental well-being.



A Training Program on Digital Twin Modelling and Simulation was organized on 1st and 2nd August 2025 at KCT, coordinated by Dr. A. P. Arun, Assistant Professor – III and Dr. S. Thirumurugaveerakumar, Associate Professor and Mr. G. Vergin Vino, Design Engineer, TANCAM, served as the resource person, guiding 134 students (66 on Day 1 and 68 on Day 2) on digital simulation applications in design and manufacturing.



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Guest Lecture

A Guest Lecture on “Awareness about Preparation for CAT Exams” was organized for the 2023–2027 batch on 30th August 2025, with Mr. Vasanthakumar, faculty from 2IIM Online CAT Coaching, as the resource person. The session, coordinated by Dr. M. Thirumalai Muthukumar, Associate Professor – III, engaged 50 students in strategies for effective preparation and competitive success.



Industrial Visit

The IV-year B.E. Mechanical Engineering students (39 participants) visited Layer Forge, Coimbatore on 22nd August 2025. The visit, coordinated by Dr. C. Velmurugan, Professor, Dr. S. Rajesh, Assistant Professor – II and Mr. P. D. Devan, Assistant Professor – II, provided valuable exposure to forging processes, advanced manufacturing methods, and industry practices.



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To design and develop a mechanism for automation in a spinning mill, team members Dr. N. Sangeetha and Dr. M. Thirumalaimuthukumar visited the textile mill on August 12, 2025. The visit was accompanied by Dr. Jayapragasan, AVP, LPT.



During the visit, the basic requirements of the industry and the processes involved in the spinning mill were studied in detail.

Career Guidance

The Department of Mechanical Engineering organized a seminar on "Study Opportunities at International Universities" on 5th August 2025, in collaboration with Career Zone. Resource persons Ms. S. Nagalakshmi and Ms. Preetha Peter guided final-year students on admission processes, test preparation, and university selection across countries including the USA, UK, Canada, Germany, and Australia. The session highlighted success stories of students admitted



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to globally reputed universities and provided practical insights on aligning academic goals with budgets and career aspirations.



The seminar was coordinated by Dr. M. Thirumalai Muthukumar, Assistant Professor – III.

Dr. M. Thirumalaimuthu Kumaran, Assistant Professor - III, **Dr. P. R. Ayyappan**, Assistant Professor – SRG, and **Dr. M. A. Vinayagamoorthi**, Assistant Professor III, facilitated the Undergraduate Capstone Project Review – I organized by the Department of Mechanical Engineering on 20th September 2025.

The session brought together industry experts – **Mr. R. Mohan Prakash** (Senior Mechanical Designer, ZF Wind Power Coimbatore Pvt. Ltd.), **Mr. K. Muralikrishnan** (Manager – Manufacturing, Spintec Engineering Pvt. Ltd.), and **Mr. R. Murugan** (AGM – Quality, Elgi Equipments Ltd.) – who evaluated final-year student projects and shared valuable insights on problem formulation, design approaches, feasibility, and industry expectations.

The interaction created an effective exchange of technical knowledge, bridging academic progress with industrial practices.

A Research Workshop Series titled “Protecting Research Outcomes through Intellectual Property Rights” was organized on 20th September 2025 at the Mechanical Conference Hall. **Dr. R Mohanraj**, Assistant Professor, Department of Production Engineering, PSG College of Technology, Coimbatore, served as the Resource Person. The workshop covered patents, copyrights, and design protections, encouraging researchers to secure and commercialize their innovations. Coordinated by **Dr. V. Muthukumar**, Professor, **Dr. S. Balaji**, Assistant Professor-III, and **Mr. R. S. Mohan Kumar**, Assistant Professor-II, the workshop witnessed active participation from 14 faculty members representing Mechanical Engineering, Aeronautical Engineering, and KCIRI.



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A session on “Winning Research Proposals” was held on 20th September 2025 as part of the Research Workshop Series. **Dr. Krishnaraj V**, Professor, Department of Production Engineering, PSG College of Technology, Coimbatore, led the workshop as Resource Person. His address focused on key elements of successful proposal writing – from defining objectives and crafting impactful abstracts to aligning with funding priorities and demonstrating research feasibility. Faculty participants gained practical insights into proposal structure, budget preparation, and reviewer expectations. The interactive session also highlighted strategies to strengthen innovation and clarity in research communication. The workshop was coordinated by **Dr. V. Muthukumaran**, Professor, **Dr. S. Balaji**, Assistant Professor III, and **Mr. R. S. Mohan Kumar**, Assistant Professor II, and saw enthusiastic participation from 10 faculty members of Mechanical Engineering and Automobile Engineering.





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Industry Expert Session on Additive Manufacturing was organized by the Department of Mechanical Engineering on 17th September 2025. The session featured **Mr. Joe Ajay** (Business Development Manager, EOS India Pvt Ltd, Chennai).

An insightful Industry Expert Session on “Advancements in Braking Technology” was organized on 4th September 2025, featuring **Mr. B. Ruban Deva Prasath**, Head of Vehicle Core and Senior General Manager at Brakes India Private Limited, Padi, Chennai. With his vast industry experience, Mr. Prasath shared valuable insights into the latest trends and technological advancements in automotive braking systems, helping students connect theoretical concepts with real-world industrial applications. Both the sessions were coordinated by **Dr. C. Velmurugan**, Professor, **Mr. P. D. Devan**, Assistant Professor II, and **Dr. S. Rajesh**, Assistant Professor II.

An Industry-led Session on CMM (Coordinate Measuring Machine) was conducted on 29th September 2025 in association with Spintec Engineering Pvt Ltd. The industry experts were **Mr. Barath S & Mr. Muralikrishnan K** (Quality Management Professionals). The faculty coordinator was **Dr. M. A. Vinayaga Moorthi**, Assistant Professor III.



As part of the academic schedule for 2025–26, Undergraduate Capstone Project Review – I was conducted on 20th September 2025 for final-year students at Kumaraguru College of Technology. The review aimed to assess project progress, offer constructive feedback, and bridge the gap between academic learning and industrial expectations. Renowned industry experts served as external reviewers:

Mr. R. Mohan Prakash, Senior Mechanical Designer, ZF Wind Power Coimbatore Pvt. Ltd., **Mr. K. Muralikrishnan**, Manager – Manufacturing, Spintec Engineering Pvt. Ltd., **Mr. R. Murugan**, AGM – Quality, Elgi Equipments Limited



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They engaged with student teams, evaluating their problem statements, design approaches, and methodologies, while sharing valuable suggestions for improving innovation and technical rigor. The session offered students real-world insights, emphasizing teamwork, documentation, and execution discipline.

Coordination for the event was handled by **Dr. Thirumalaimuthu Kumaran M**, Assistant Professor III, and **Dr. P R Ayyappan**, Assistant Professors - SRG, along with **Dr. M. A. Vinayagamoorthi**, Assistant Professor III, Department of Mechanical Engineering.



A special orientation programme was organized for Mechanical Engineering Design and Analysis (MEDA) students by Capgemini on 18th September 2025, offering a clear window into the world of industry and technology.

The event provided a valuable platform for 74 students to gain direct insights from corporate experts. **Mr. S. Kamalakannan**, Manager at Capgemini Engineering, engaged in one-on-one interactions with the attendees. He discussed their career aspirations and provided clarifications on the industry environment, nature of work, and future career opportunities. Following this, **Mr. Mohammed Ithries**, a Capgemini Professional, conducted an insightful session. He shared details about real-world industry projects and offered a practical perspective on the application of academic knowledge in a professional setting.



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The orientation served as a crucial bridge between academic learning and industry expectations, equipping MEDA students with a clearer vision for their professional journeys.

The students found the programme highly informative for their career planning. The event was successfully coordinated by **Dr. M. A. Vinayagamoorthi**, Assistant Professor III, and **Mr. P. Karthi**, Assistant Professor I, ensuring smooth conduct and active participation.

Industry-led Session on Personal Investment Management



An insightful industry-led seminar on **Personal Investment Management** was organized within KCT on **7th October 2025**. The session was coordinated by **Mr. K. Manikanda Prasath**, Assistant



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Professor - II and featured **Mr. Gowtham Dhamotharasamy**, a distinguished Social Entrepreneur and Founder of **FINCLINIQ, Coimbatore**.

The event attracted **50 participants**, offering them practical knowledge and strategies for effective personal investment planning. The interactive session emphasized financial literacy and smart investment approaches, empowering attendees to make informed decisions for their future.

Industry-led Session on Kinematics of Machinery

On **27th October 2025**, KCT hosted an engaging seminar on **Kinematics of Machinery**, coordinated by **Dr. N. Sangeetha**, Senior Associate Professor and **Dr. T. Karuppusamy**, Assistant Professor - III. The session featured **Mr. Dineshkumar G**, Senior Mechanical Design Engineer at **Eppinger Tooling Asia Private Limited**, who shared his expertise on advanced mechanical design concepts and real-world applications of kinematics in modern engineering. With **130 participants**, the seminar provided valuable insights into industry practices, bridging the gap between academic learning and practical implementation.

Guest Lecture on New Product Development

The Department organized an insightful **Guest Lecture on “New Product Development”** on **10th October 2025**. The session featured industry experts **Mr. A. Sasikumar A** and **Mr. R. Saravanan** from **Cappgemini Engineering**, who shared their expertise on the latest trends and methodologies in product development. The lecture was attended by students from the **2023–2027 and 2022–2026 batches**, with **37 participants** actively engaging in discussions.



The event was coordinated by **Dr. M. A. Vinayaga Moorthi** and provided students with valuable insights into real-world practices, bridging the gap between academic concepts and industry applications.

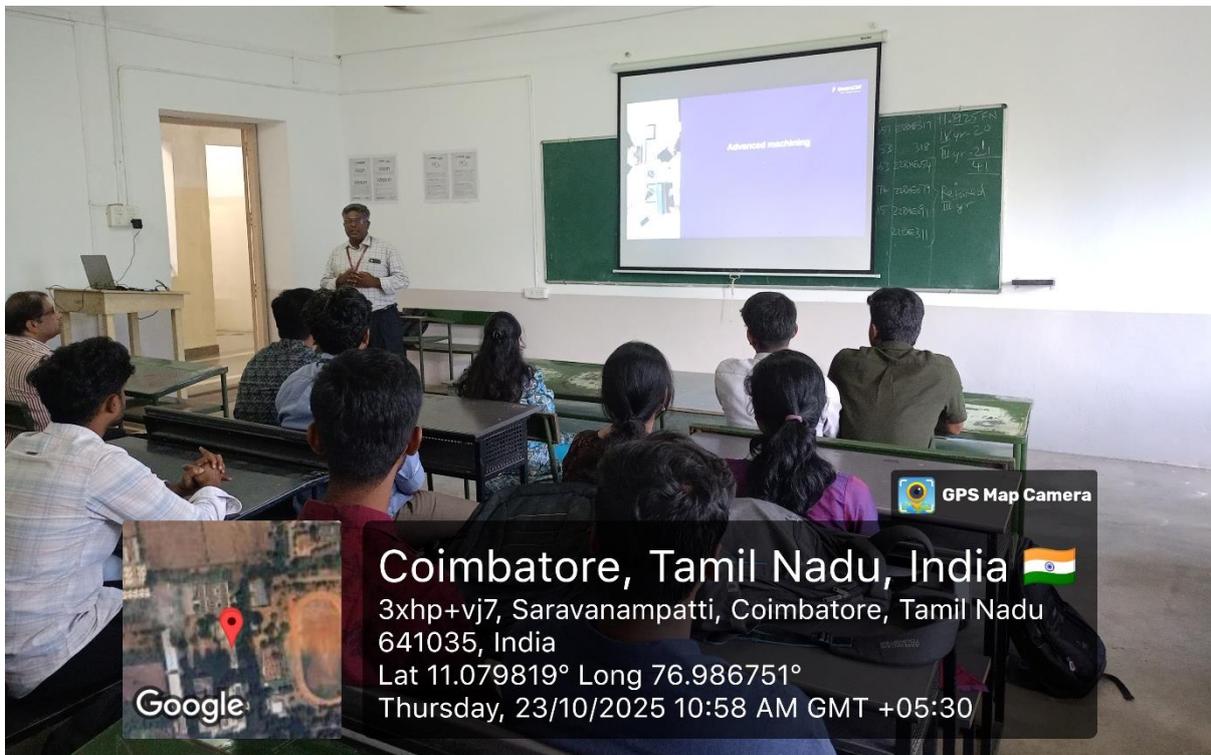


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Industry-led Session on Modern Machining Processes

An **Industry Expert Session on “Modern Machining Processes”** was organized for **III-year Mechanical Engineering students** at KCT on **23rd October 2025**. The session aimed to provide students with practical insights into advanced machining techniques, their applications in modern manufacturing, and industry best practices.

The resource person for the session was **Dr. Srinivasan Surendran, Technical Trainer – Learning & Development** from **Smart Cliff Learning Solutions, Coimbatore**. His expertise and interactive approach enriched the students’ understanding of cutting-edge machining technologies, bridging the gap between classroom learning and industrial applications.



The session was coordinated by **Dr. S. Thirumurugaveerakumar**, Associate Professor and **Mr. P. D. Devan**, Assistant Professor – II.

The Department of Mechanical Engineering organized a three-day **“Workshop on Computational Fluid Dynamics Software”** from 5th to 7th November 2025 at the KCT CADD Centre. The workshop, handled by **Mr. B. Jeeva**, Assistant Professor - II, Department of Mechanical Engineering, KCT, and coordinated by **Mr. B. Jeeva** and **Mr. P. Pradeep**, Assistant Professors - II introduced participants to CFD methodology, ANSYS Workbench tools (Design Modeler, Meshing, Fluent Solver), and hands-on simulations of fluid flow problems including laminar (Hagen–Poiseuille) flow with analytical validation. A total of 17 second-year Mechanical Engineering



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students took part in the programme, and the practical sessions on meshing and solver setup received highly positive feedback, with students requesting an extended one-week version for deeper learning.



An industry-led technical session on “Gas Turbines” was conducted on 7th November 2025 as part of the GIFT-IIPC initiative. The session was delivered by **Dr. R. Tamilselvan**, SME – Mechanical Engineering, L&T EduTech, Chennai, and coordinated by **Mr. B. Jeeva** and **Mr. S. Sivakumar**, Assistant Professors - II. The session covered key concepts including radial inward flow and axial flow gas turbines, along with axial and centrifugal compressors. A total of 43 students participated actively, and the resource person appreciated their ability to summarize technical concepts while suggesting the inclusion of advanced metallurgy topics—such as blade design and heat-treatment technologies—in future curricula to enhance industry relevance.





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The Department of Mechanical Engineering conducted a specialized Skill Training Program on “Programming and Machining on CNC Machining and Turning Centre” on 7th November 2025 at the KCT CAM Laboratory. The session was delivered by **Mr. Krishna** from Vignani Electronics, Bangalore, and coordinated by **Dr. B. Senthikumar**, Associate Professor and **Dr. T. Karuppusamy**, Assistant Professor – III, with technical support from **Mr. K. Ragupathy**. The program offered hands-on exposure to advanced manufacturing practices, emphasizing CNC programming, machining operations, and practical skill development for modern industrial applications.

The Department of Mechanical Engineering organized a “3-Day Hands-on Workshop on MS Office” for supporting and technical staff from 18th to 20th November 2025 at the KCT-CAM Lab. The workshop, coordinated by **Dr. V. R. Muruganatham**, Associate Professor and **Mr. P. D. Devan**, Assistant Professor – II, aimed to enhance digital documentation skills through training in professional document creation, data management, and presentation design using MS Word, Excel, and PowerPoint. A total of 12 staff members participated and reported improved accuracy, efficiency, and confidence in managing digital documentation for daily administrative tasks.



The Department of Mechanical Engineering conducted a specialized training session on “Laser Beam Welding” on 28th November 2025 at the Basic Workshop. The training was delivered by **Mr. Martin Raja**, Technical Head, FE & Tech, Coimbatore, and coordinated by **Dr. V. Manivelmuralidaran**, Assistant Professor – III and **Dr. S. Thirumurugaveerakumar**, Associate Professor. The session aimed to enhance faculty and technical staff proficiency in operating and effectively utilizing the laser welding machine for research and consultancy activities. Participants—including **Mr. P. Karthi**, **Mr. S. Prabhu**, **Dr. M. A. Vinayagamoorthi**, **Mr. P. Pradeep**, Assistant Professors – II & III, and technical staff—gained valuable hands-on exposure to advanced welding techniques, finding the training highly beneficial for future applications.

The Department of Mechanical Engineering, in association with **TANSAM (Tamil Nadu Smart & Advanced Manufacturing Centre)**, organized a Five-Day Faculty Development Programme (FDP) on “Industrial Plant Automation using Siemens Plant Simulation” from 21st to 26th November 2025 at the Yokogawa Centre of Excellence Lab. The programme was handled by **Mr. Subin**



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Mathews, Simulation Engineer, TANSAM, and organized by **Dr. A. P. Arun**, Assistant Professor - III, **Dr. B. Sabitha**, and **Mr. M. Ravichandiran**. The FDP aimed to enhance faculty aligned with Industry 4.0. Participants gained hands-on experience in factory simulation workflows, including real-time monitoring dashboards, bottleneck identification, throughput optimization, and material flow visualization. As part of a mini-project, faculty members developed complete plant models, analysed cycle times, and proposed optimization strategies based on simulation outputs.

Mr. V. Raghupathi, Technical Staff, successfully completed a One-Day National Level Hands-on Training on "Artificial Intelligence in IoT Devices" on 31st October 2025. The program was organized by the Department of Electronics and Instrumentation Engineering, **Sri Ramakrishna Engineering College, Coimbatore**, in association with the **Centre for Continuing Education (CCE)**, **ISTE**, and **IEEE**, providing valuable exposure to AI-enabled IoT applications and emerging smart technology trends.