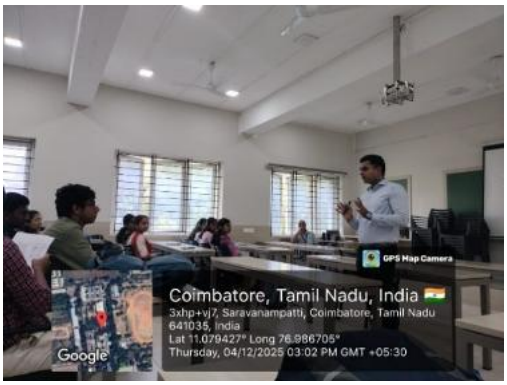
DEPT OF MECHANICAL ENGINEERING

January – June 2026

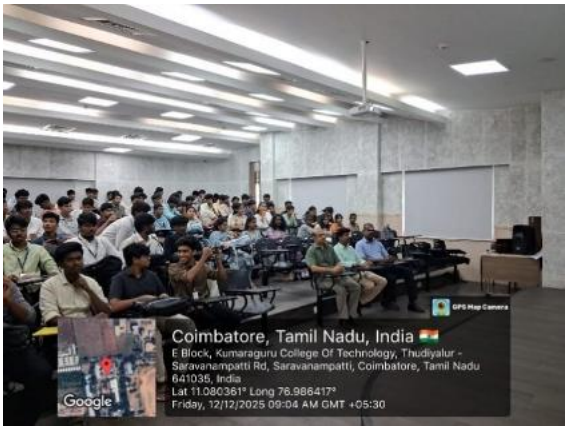
An industry session on “A Step Towards Self-Realization” was conducted on 4th December 2025 for first-year students, led by **Mr. Karthik R** a career guidance consultant. The interactive workshop covered goal setting, stress management, and career planning, receiving highly positive feedback from participants.





On 12th December 2025, **Dr. P. Mohan,** Director of Operations at M/s. Levigate Alloys Private Limited, Coimbatore, delivered an expert session on Powder Metallurgy for Mechanical and Automobile Engineering students, enriching their understanding of manufacturing processes and industrial applications.





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A three-day Faculty Empowerment Program on Data Science Applications in Mechanical Engineering was successfully conducted during the month of December 2026, focusing on the integration of data analytics with core mechanical engineering domains. The program provided faculty with a strong foundation in data science concepts and hands-on training using tools such as SQL and Power BI. Participants explored real-world applications including predictive maintenance, quality control, vibration analysis, and design optimization through practical case studies. The program effectively empowered faculty to incorporate data-driven approaches into teaching, research, and Industry 4.0–oriented interdisciplinary projects.



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An Entrepreneurial Awareness Session titled “Prototype to Profit Pathway” was organized for the 2023–2027 and 2024–2028 batch Mechanical Engineering students. The session was delivered by **Mr. Devakumar Nagarajan,** Chief Executive Officer, Intero Pactec India Pvt. Ltd., and President, Chinnavedampatti Industrial Association. With 50 students participating, the session provided valuable insights into transforming innovative prototypes into commercially viable products. Mr. Devakumar shared real-world entrepreneurial experiences, industry expectations, and strategic approaches to scaling engineering solutions into profitable ventures. And, they had interacted with the faculty members for the potential interactions between industries and institutions.

An industry-led session on **“Design of Jigs and Fixtures & Product Design and Development”** was conducted on 25 February 2026 from 1:45 PM to 3:45 PM, offering students valuable exposure to real-world engineering practices. The session was delivered by **Mr. Marudhupandian M, CAE Engineer at TANCAM**, who shared practical insights into the application of finite element modeling in industrial scenarios, including design validation and performance analysis. The session enhanced students’ understanding of simulation-driven design and its importance in modern product development.



A guest lecture on **“Application of Finite Element Method to Solve Engineering Problems – A Case Study”** was successfully conducted at KCT on 27 February 2026 from 2:00 PM to 3:00 PM.

The session was delivered by **Mr. Kishore Viswanathan, Designer – Product Development (R&D, IWDV12) at ZF Group, ZF Wind Power Coimbatore Pvt. Ltd.**



A technical training program in collaboration with Capgemini was organized to strengthen students' core engineering knowledge and industry-relevant skills. The sessions covered a wide range of subjects including Dynamics of Machinery (DOM), Design of Machine Elements (DME), Manufacturing Technology (MT) with GD & T, Engineering Mechanics (EM), Kinematics of Machinery (KOM), Engineering Materials (EMM), Microsoft Excel for Data Analytics, and Strength of Materials (SOM). These sessions were handled by our faculty members, **Dr. N. Sangeetha, Mr. P. D. Devan, Dr. M. A. Vinayagamoorthi, Mr. T. R. Sukumar, Dr. T. Karuppusamy, Dr. B. Senthil Kumar, Dr. B. N. Sreeharan, and Mr. S. Subbiah.** The program was coordinated by **Dr. M. A. Vinayagamoorthi,** MEDA Coordinator.



Department in collaboration with the Tamil Nadu Centre of Excellence for Advanced Manufacturing (TANCAM), organized the TNWISE 2026 Women's Hackathon on 12th March 2026

with the theme **"Smart Agriculture and Rural Innovation"**, aiming to empower women in science and engineering through real-world problem solving. The event saw 977 participants across 364 teams from 91 institutions. Two teams secured first prize, representing Sri Ramakrishna Engineering College and KGISL Institute of Technology.

Department organized an Industry-Led Session on "Gearbox Design and Its Applications" on 26 March 2026 (Thursday) via Google Meet. The session was conducted to provide students with industry-oriented insights into gearbox design and its practical applications. **Mr. Shankar G Subburathinam,** Manager Engineering, Advanced Materials Technology Integrated Drivetrain, Large Power Systems Division, Caterpillar India, Thiruvallur, was the resource person.



Department organized an industry expert session for the course U18MEE0046 – Tool and Die Design on the topic "Design of Bending and Drawing Dies" on 25 March 2026. The session was delivered by **Mr. A. Jeyaraj**, Project Manager at TANCAM, for current third-year Mechanical Engineering students, providing valuable industry insights.



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A CPC Activity on **"Awareness Program on Mental Health & Wellbeing for Engineering Students"** was conducted on 09 April 2026 at the KCT campus. Sponsored by the CPC, focused on stress management, emotional wellbeing, anxiety handling, and positive coping strategies for engineering students.

An industry-led online session on **"Material Strength and Structural Behavior"** was conducted on 02 April 2026 through Microsoft Teams. The session was delivered by **Mr. M. Gautham Siddharth**, Associate Manager – Mechanical Design Excellence, who shared practical insights on material strength fundamentals and structural behavior through real-world industrial applications.

The Industry Delivered Course on **Tool and Die Design** was organized in association with TANCAM was organized on 10 April 2026. The Department organized a five-day Faculty Development Programme (FDP) on "Foundations of AI and Physical AI for Core Engineering Disciplines" from 11th to 15th May 2026 at KCT. The programme witnessed the participation of 15 faculty members and aimed to enhance understanding of Artificial Intelligence and its applications in core engineering domains.



The sessions were delivered by distinguished experts from **TANCAM**, including **Mr. Raja Subramanian, Vice President**, **Dr. G. Kartheek, Research Engineer**, and **Mr. G. Vergin Vino, Design Engineer**. The FDP provided participants with valuable insights into emerging AI technologies, Physical AI concepts, and their integration into engineering education and practice, strengthening faculty competencies in advanced technological domains.

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The Department organized a **three-day HyperMesh Training Program** from **11th to 13th May 2026** with the participation of **21 students**.





The training was conducted by **Mr. Marudhu Pandian** and **Mr. Vergin Vino** from **TANCAM**, who provided hands-on exposure to HyperMesh software and its applications in engineering analysis and simulation. The programme enhanced participants' practical knowledge of pre-processing techniques, finite element modeling, and industry-relevant CAE tools, thereby strengthening their readiness for advanced engineering applications.