



DEPARTMENT OF MECHATRONICS ENGINEERING

Best Practices

State-of-the-Art Laboratory Facilities

- Equipped with advanced automation, robotics, and AI-integrated labs to provide hands-on learning and research opportunities.
- Industry-grade tools and software ensure students gain practical experience in real-world applications.

Interdisciplinary Learning & Projects

- Encourages collaboration between mechanical, electronics, and computer science disciplines for holistic problem-solving.
- Students work on innovative projects integrating IoT, AI, and embedded systems to tackle industry challenges.

Professional Society Engagement

- Active participation in These include the IEEE Robotics and Automation Society (IEEE-RAS), the Society of Automotive Engineers (SAE), and the Indian Society for Technical Education (ISTE). Additionally, the department is affiliated with the Institution of Engineers (India) [IE(I)], the Institution of Engineering and Technology (IET), and the Indian Society of Remote Sensing (ISRS). Other notable associations include the Fluid Power Society of India (FPSI), the Institute of Smart Structures and Systems (ISSS), and the Soft Computing Research Society (SCRS). The department also collaborates with the Society for Failure Analysis (SFA), the All-India Council for Robotics and Automation (AICRA), The Robotics Society, the Society for Smart E-Mobility (SSEM), and the Coimbatore Productivity Council (CPC). enhances networking and exposure to industry trends. Organizing technical symposiums, workshops, and competitions to foster professional development.

Skill Development Workshops

- Regular hands-on training sessions on automation, STM EDGE AIOT, PLC, and CAD/CAM tools to enhance technical competencies.
- Alumni interactions and expert Placement Mentoring

Industry Collaboration & Internships

- Strong partnerships with leading industries to provide students with internship opportunities and industrial training.
- Live projects and guest lectures by industry professionals to bridge the gap between academia and industry.

Entrepreneurship & Startups

- Support for student startups through incubation centers and mentorship programs.
- Funding assistance and exposure to pitch ideas in national and international competitions.



Outreach Programs and Social Initiatives

Encouraging students to contribute to society through technical solutions, rural development projects, and awareness campaigns.

Collaborations with NGOs and government programs to apply engineering skills for social impact.

Summer Training in Abroad Universities

- Providing opportunities for students to undergo training at international universities to gain global exposure.
- Enhancing research capabilities and networking with global experts through exchange programs.

Mentoring Students for ROBOCON, TIFAN, SHELL ECO MARATHON, MONACO ENERGY BOAT CHALLENGE

- Specialized training and support for students to participate in prestigious national and international engineering competitions.
- Hands-on experience in designing, fabricating, and optimizing innovative solutions for real-world challenges.