



Thiagarajar 68
College of Engineering YEARS
1957-2025
where quality and ethics matter
Celebrating
Academic Excellence



Courses Offered
B.E. Mechatronics
&
Ph.D.

DEPARTMENT OF MECHATRONICS ENGINEERING

Vision

Be a globally renowned school of engineering in Mechatronics.

Mission

- To develop ethical and competent engineers by synergizing world class teaching, learning and research.
- To establish state-of-art laboratories and to provide consultancy services to fulfil the expectations of industry and needs of the society.
- To inculcate entrepreneurial qualities for creating, developing and managing global engineering ventures.
- To motivate the students to pursue higher studies and research.

Department Overview

The Department of Mechatronics Engineering, established in 2016, offers B.E. in Mechatronics and doctoral studies. It aims to produce skilled professionals for the industry, with faculty involved in research funded by agencies like DST, UGC, and AICTE. The department boasts state-of-the-art laboratories focusing on Robotics, Automation, IoT, Sensors, Thermal Management, and drones.

Highlights

Department Achievements:

- The department is NBA accredited until 2027 and focuses on Robotics, with Special Interest Groups in System Integration, IoT, Sensors, Robotics, and Industrial Automation.
- Faculty have received sponsored research projects from DST, DRDO, and the Ministry of Textiles.
- Students have achieved success in competitions such as Smart India Hackathons, World Robotics Championship, SAE Baja, ISHRAE and Tamil Nadu Student Innovators Programme.

Program Highlights:

- The Mechatronics program integrates mechanical, electrical, electronics, and computer engineering, focusing on system oriented hands on approach for robotics, automation, IoT, AI, and control systems.
- The curriculum is designed for Industry 4.0, preparing graduates to work in industries like manufacturing, healthcare, automotive, aerospace, and consumer electronics.
- The program offers a strong foundation in programming, simulation, and design tools, with opportunities for research, internships, and industry collaborations to foster innovation and leadership.

MoU's and MoA's Signed



Garuda
aerospace



Sundram Fasteners
Limited



alfa TKG



ADDING VALUE



A member of the ABB Group

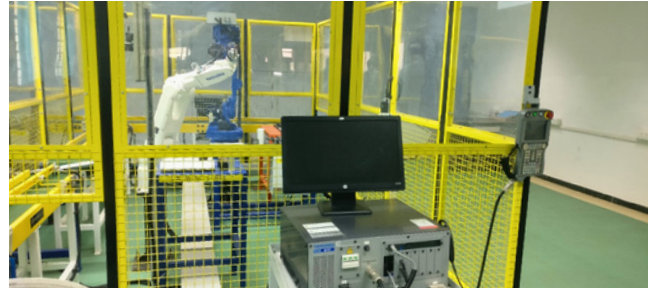


WHEELS INDIA LIMITED



Wisdom · Integrity · Excellence

Centre for Excellence in Robotics



Measurements and Control Lab



Total Faculty strength

10

Faculty members with Ph.D.

05

Professors

02

Assistant Professors

08

Industry Interface

- Design and development of DC-DC charger
- Design of Bite force and Forceps pressure measurement
- Automated Simulation of Welding in RoboDK
- AI based activity Detection
- Design and development of Welding NDT Testing
- Design and development of reversible charger for electric vehicles
- Development of training kits for schools
- Course Development - Nan Mudhalvan



Outstanding Infrastructures

- Centre for Robotics
- Mechatronics Workshop
- Automation Technologies Lab
- Measurements and Control Lab
- Product Development Lab
- Sensors Lab
- Modelling and Simulation Lab



Product Development lab



Automation Technologies lab



Sensors lab

Our Top Recruiters

CATERPILLAR®

ShopUp

wipro

ZOHO

TATA ELXSI

TCS DIGITAL

Trimble

accenture

Infosys

COMCAST

cognizant

TATA
TATA CONSULTANCY SERVICES

L&T Technology Services

temenos

Total Publications - 100+

Total Patents - 08

Total Research Grants - 04

Consultancy - 20+ lakhs

Total Research Grant amount

1.36 Crores

Student Achievements

Our IV, III and II year students of drone club secured 4th place in SAEISS Autonomous Drone Development Challenge with a score of 423.5/500, 2025.



Our IV year students of 2020 batch secured sponsorship of Rs 1 lakh in Niral Thiruvizha, TN, 2024.

Our III year students of 2019 batch secured first prize of Rs 50,000/- in National Smart India Hackathon, Hardware Edition, 2022.



Notable Alumni



Mr. Jayasooriya Parameswaran,
2014 - 2018
Automobile engineer,
Sherpa Engineering, France



Mr. ADP Guru Nandhan,
2016-2020
Software Development Engineer,
Amazon Robotics, Maryland,
United States



Mr. Govind Prasath,
2016-2020
Director, Ekay and Associates
Engineers Private Limited,
Madurai



Ms. Roobini Devi L R
2019 – 2023
Development Engineer,
Caterpillar, Bengaluru

Professional Societies & Clubs



Drone Club



Indian Society of Heating,
Refrigerating and Air
conditioning Engineers (ISHRAE)



Robotics Society of India



Indian Association of Energy
management Professionals
(IAEMP)

Alumni Testimonials



Mr. Jitesh Shivakumar,
2014-2018
Global Head of Operations,
Nibav Lifts and Elite
Elevators, Chennai

As an alumnus of TCE's Mechatronics Department, I'm grateful for the support and opportunities that shaped my personal and professional growth. Guided by inspiring faculty, I developed leadership skills and a passion for innovation. Today, I serve as the Global Head of Operations, being proud of my journey. I encourage current students to embrace challenges and seek mentorship.



Mr. Muthaiah M,
(2020-2024),
Embedded Engineer,
Johnson Electrics

I would like to express my sincere gratitude to my college and placement cell for their pivotal role in helping me secure my position as an Embedded-Motor Control Engineer at Johnson Electric. The knowledge I gained in key subjects like C Language, and Control Systems have been instrumental in my role. I deeply appreciate the efforts of my faculty, whose teachings laid a strong foundation for my career. Their guidance and expertise have shaped me into the profession I am today.



Ms. Roobini Devi L R
2019 – 2023
Caterpillar, Bengaluru

I am grateful to my college for providing continual advice in improving my communication, technical, and programming skills. I was given the chance to participate in a Caterpillar Company on-campus placement, which allowed me to demonstrate my technical expertise in a professional setting. I am incredibly grateful to my college for teaching me all facets of the workplace, which enhanced not only my professional skills but also my character and leadership abilities, and for giving me a job in a positive work-life balance.

Contact

Professor & Head
Email: hodmect@tce.edu



Scan for more information

