

NEWSLETTER OF

Electronics & Instrumentation Engineering

Vision of the Institute

The vision of the college is to become a technical university of international standards through continuous improvement.

Mission of the Institute

Kumaraguru College of Technology [KCT] is committed to providing quality education and training in engineering and technology to prepare the students for life and equipping them to contribute to the technological, economic, and social development of India. The college pursues excellence in providing training to develop a sense of professional responsibility and social and cultural awareness and set students on the path to leadership.

Vision of the Department

The Department of Electronics And Instrumentation Engineering (E&I) envisions a holistic education that transforms the learners into responsible engineers which shall enable them to identify significant problems both in Industry and Society to arrive at creative and sustainable solution through collaborative team works

Mission of the Department

The Department of Electronics And Instrumentation Engineering aims to Implement modern andragogical approach in academics, innovative research initiatives and collaborative projects that shall ethically address the societal needs. Develop knowledge and skills required to excel in manufacturing, automation, automation and allied industries on a global platform. Expand the knowledge for higher studies and get inspired for lifelong learning

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HOD's MESSAGE

The Department of Electronics & Instrumentation Engineering, established in 2006, is a specialized branch of Electrical and Electronics Engineering, focusing on the principles and operation of field instruments, SCADA systems, DCS, PLCs, and advanced process control systems.

The department boasts state-of-the-art facilities, including the Siemens PLC Automation Laboratory, Advanced Process Control Lab, Computerized Sensors Lab, and the KCT

Embedded Edge AI Laboratory. These labs are pivotal in the design, development, and configuration of automated systems. Our engineers are trained to work in industries with automated processes, such as chemical and manufacturing plants, where they focus on enhancing system productivity, reliability, safety, optimization, and stability. In a short span, we have built a comprehensive infrastructure, aligning with curriculum requirements and offering specialized equipment and software that empower students to undertake real-time projects. Our students have successfully secured placements in leading industries, including Yokogawa, Bosch, Data Patterns, TVS, Tesolve, Saipem, and ECON, among others. Furthermore, many of our alumni have excelled in competitive exams like the CAT and GATE, gaining admission to prestigious higher education institutions. A number of our graduates are currently pursuing advanced studies in renowned universities across the US, UK, Germany, and Australia, further cementing the global reach and academic excellence of the department.

About the Department

Established in 2006, the Department of Electronics & Instrumentation Engineering offers a comprehensive 4-year undergraduate program with state-of-the-art infrastructure and cutting-edge labs, including the Yokogawa Centre of Excellence, KCT-FLUKE Calibration Centre, Siemens PLC Automation Laboratory, and specialized labs in Advanced Process Control, Computerized Sensors, and Embedded Edge AI. The department boasts a highly



qualified faculty with expertise in both industrial and research domains. Strong industry collaborations with automation companies, embedded systems firms, CMTI, and MEMS design organizations ensure that students gain exposure to real-world challenges and the latest technological trends. The department also provides industrial consultancy services

in automation solutions and certified calibration, supporting industries in operational efficiency. Additionally, it is involved in government- and industry-funded projects, focusing on practical, innovative solutions. With affiliations to professional bodies like ISA, ISOI, IEEE, ISTE, and IEI, the department continuously enhances its curriculum to align with global standards. These efforts ensure that graduates are well-prepared to lead in the fields of Electronics, Instrumentation, and Automation.

Republic Day Achievers Awards

The Republic Day Achiever Awards were presented to several exceptional students of the EIE Department in recognition of their outstanding contributions and achievements. The awards were conferred upon Thirumalaivasan K. N., Pavin P. S., Sobika M., Yogisha M., Hemaltha V., and Anisha Supriya for their academic excellence and active participation in various departmental activities. These students have consistently demonstrated a high level of dedication, hard work, and passion in their academic journey, setting a strong example for their peers. The Republic Day Achiever Awards celebrated their commitment to excellence and the values of leadership, innovation, and knowledge. Congratulations to all the awardees, and we are immensely proud of their achievements.



Achievers Award

The Achievers Award was presented to Dakshin D. S. of the Batch of 2024 in recognition of his immersive and invaluable contribution to the Department Association of EIE as Vice President. Dakshin's dedication, leadership, and consistent efforts in organizing and supporting various departmental activities have greatly enriched the student experience. His proactive role in driving initiatives and fostering collaboration within the department made a significant impact, earning him this well-deserved recognition. Congratulations to Dakshin for his remarkable contributions and leadership throughout his tenure.



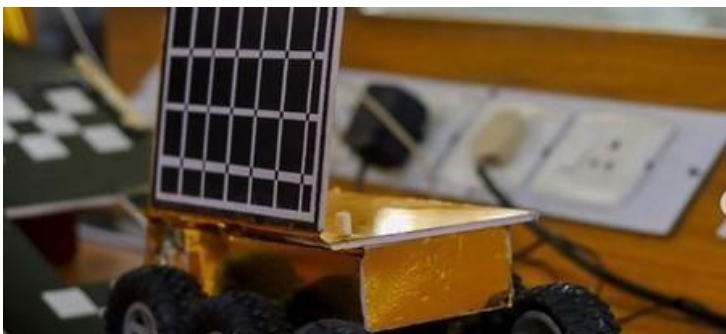
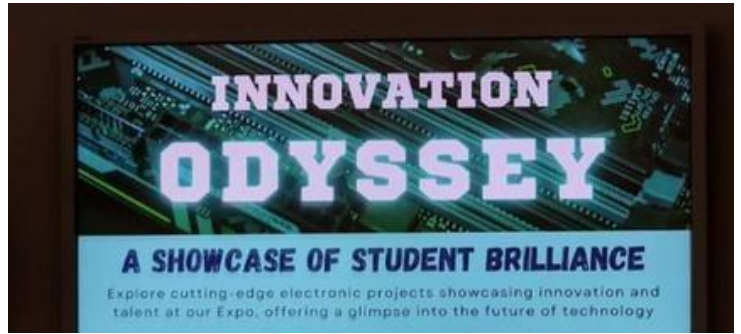
IE(I) Membership

The Institute of Engineers (India) (IEI) Membership initiative was successfully launched by the EIE Department under the guidance of the Head of the Department and the Faculty Coordinator of the Technical Society. The event marked the establishment of the Institute of Engineers (India) – EIE KCT Section, with 54 students enrolled as its inaugural members. This initiative aims to provide students with valuable opportunities for professional development, networking, and exposure to various engineering fields. By becoming members of IEI, the students have access to resources that will help them grow as engineers and contribute to their future success in the field. The department looks forward to the positive impact this membership will have on the students' academic and professional journeys.



Innovation Odyssey - Project Expo

The EIE Department hosted Innovation Odyssey, a project expo designed to showcase innovative projects in the domain of electronics and sensors, specifically for school students. The event saw active participation from several prominent schools, including Coimbatore Public School, Don Bosco, Vivekam Schools, and various government schools. The expo featured a wide range of projects, with students presenting their creative ideas and solutions in the fields of electronics, automation, and sensor technology. The event was graced by the esteemed presence of Anushree Ma'am from the EEE Department, who served as a guest for the occasion, along with staff members from KCIRI who also visited the expo. Their insights and encouragement added immense value to the event. Innovation Odyssey successfully provided a platform for young minds to showcase their talents and innovations, inspiring them to explore the exciting possibilities in the world of technology and engineering. The department looks forward to hosting more such events that foster creativity and technical skills among students.



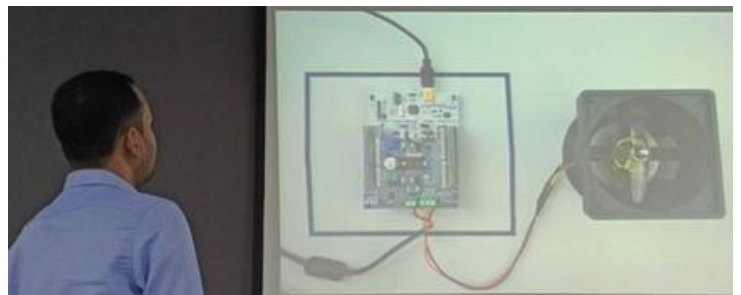
Automation with PLC & HMI Interface

HMI Interface during Yugam 2024, focusing on the fundamentals and practical applications of Programmable Logic Controllers (PLC) and Human-Machine Interface (HMI) systems. The workshop provided participants with hands-on experience in programming PLCs and integrating HMI for efficient system control, making it a valuable learning opportunity for those interested in industrial automation.



Embedded AI Systems

The Embedded AI Systems workshop, also part of Yugam 2024, offered a deep dive into the integration of artificial intelligence (AI) with embedded systems. The workshop equipped participants with the skills needed to develop AI-driven embedded applications, highlighting the growing role of AI in modern technology. This session sparked interest and excitement among attendees eager to explore the convergence of AI and embedded systems.



THANK YOU