E - T R O L T R O N I C S
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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 thorugh collabrative team works

Mission of the Department

The Department of Electronics And Instrumentation Engineering aims to Implement modern andragogical approach in academics, innovative research initiativesand 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.
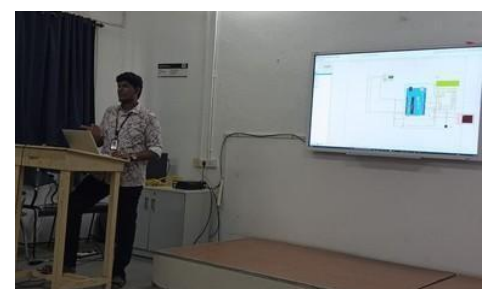
Find the Sustainable Alternate

The EIE Department recently organized an inspiring event titled "Find the Sustainable Alternate", which provided a platform for students to showcase their innovative research on sustainable alternatives for commonly used products. This year, the event focused on finding eco-friendly replacements for traditional materials, such as exploring sustainable options for parking shed construction. The participants displayed their projects through creative models, detailed posters, and live demonstrations, highlighting the potential of these alternatives to promote environmental responsibility without compromising functionality. Esteemed seniors formed the judging panel, evaluating the projects based on their innovation, practicality, and alignment with sustainability goals. The event was a resounding success, fostering creativity and critical thinking among students while reaffirming the department's commitment to research and innovation for a sustainable future.

Knowledgables

The EIE Department hosted a dynamic peer-learning workshop program, "Knowledgables," aimed at fostering collaborative learning and knowledge sharing among students. In this session, Thirumalaivasan K. N., a third-year student and the former secretary of the department association, led an engaging discussion on the topic "Introduction to Arduino." Thirumalaivasan shared his expertise on Arduino, covering its basics, applications, and potential for use in innovative projects. The juniors participated enthusiastically, asking insightful questions and gaining valuable hands-on knowledge. The session not only deepened their understanding of microcontroller technology but also highlighted the spirit of mentorship and collaboration within the department. Events like "knowledgables" continue to serve as a bridge for knowledge transfer and inspiration, strengthening the academic camaraderie among students.

Crack The Bank

The EIE Department successfully conducted an insightful event titled "Crack the Bank", aimed at creating awareness about bank exams and career opportunities in the banking sector. The event welcomed enthusiastic participants from both Kumaraguru College of Technology (KCT) and KCT Business School (KCTBS), making it an inclusive and impactful session. The resource person for the event was our esteemed alumnus from the Batch of 2013, Mr. Yogeswaran, who currently serves as an officer at Canara Bank. He shared his expertise and personal experiences, providing participants with a comprehensive understanding of the preparation strategies, exam patterns, and opportunities in the banking sector. The session was highly engaging, with participants gaining valuable insights and practical tips to approach competitive bank exams. The event underscored the department's commitment to equipping students with the knowledge and guidance needed to excel in diverse career paths.

Inauguration of Department Association 23-24

The EIE Department hosted the Inauguration of the Department Association for the academic year 2023–2024 with great enthusiasm and pride. The event featured Mr. Manikaraj, CEO of MELZ Technologies, as the esteemed chief guest, who inspired the audience with his valuable insights into the industry and his journey as a leader in technology. During the ceremony, Ms. Samritha Sivakumar was formally appointed as the President of the Department Association, along with her team of office bearers. The chief guest congratulated the newly inducted team and encouraged them to drive initiatives that would enhance innovation and learning among students. The inauguration marked the beginning of a vibrant year filled with opportunities for growth, collaboration, and excellence. With the guidance of faculty and the leadership of Ms. Samritha, the association aims to organize impactful programs to benefit students and foster a culture of continuous improvement.

Pongal Celebration

The Department of EIE and the final-year students of the department participated with great enthusiasm in the Pongal Vizha event hosted by Kumaraguru Tamil Mandram in celebration of the vibrant Pongal Festival 2024. The event was a wonderful opportunity for students and faculty to come together and immerse themselves in the rich cultural traditions of Tamil Nadu.

Tech Triumph

In celebration of Republic Day, the EIE Department organized an exciting online technical quiz event titled "Tech Triumph". The event was designed to challenge participants' knowledge and creativity in the field of technology, encouraging them to showcase their technical skills and problem-solving abilities. The quiz featured a variety of questions spanning multiple domains of engineering and technology, testing participants on their technical acumen as well as their awareness of current trends in the industry. Students from across the department participated with enthusiasm, making it a competitive and engaging experience. "Tech Triumph" successfully combined learning with fun, offering participants an opportunity to sharpen their knowledge while celebrating the spirit of Republic Day. The event not only tested technical skills but also fostered a sense of community and camaraderie among students.

Senzorr

The EIE Department hosted Senzorr, an engaging online quiz event focused on the basics of sensors and actuators. The event was designed to test participants' understanding of these fundamental components, which play a crucial role in modern engineering systems. Participants had the opportunity to challenge their knowledge on various types of sensors and actuators, their applications, and working principles. The quiz featured a series of thought-provoking questions, offering both a fun and educational experience for all involved. Senzorr was an excellent way to promote learning and awareness about these essential technologies, fostering an interest in their practical applications in industries ranging from automation to robotics. The event successfully blended learning with friendly competition, encouraging students to deepen their knowledge in the exciting world of sensors and actuators.

Women's Day Celebration

In celebration of International Women's Day, the EIE Department organized an empowering event titled "Pen Nalam Kaapom", exclusively for women. The event aimed to honor and support women's health and well-being, providing a platform for open discussions and awareness about physical and mental health topics that are essential for every woman. Through engaging activities and informative sessions, the event addressed key issues such as self-care, stress management, and overall health, with a focus on nurturing a balanced and healthy lifestyle. It encouraged women to prioritize their well-being, while fostering a sense of community and solidarity. Pen Nalam Kaapom was a successful initiative, highlighting the importance of women's health and celebrating the strength and resilience of women in the department. The event was a fitting tribute to the spirit of International Women's Day, empowering participants to take charge of their health and well-being.