

Month Of April



On 3rd March 2025, the Department of Electronics and Communication Engineering at CMR College of Engineering & Technology actively contributed to the annual fest AZURA 2K25 by organizing a variety of technical and non-technical events. The department provided a vibrant platform for students to showcase their technical knowledge, creativity, and teamwork.

The technical events included Exponix (Project Expo & Ideathon), Poster Presentation, Paper Presentation, Circuitronix, Technical Quiz, Electro Hunt, and IoT Challengex. These events encouraged innovation, analytical thinking, and practical problem-solving among participants, under the guidance of faculty members.

Alongside the technical activities, non-technical events such as IPL Auction, Tollywood Mania, and BGMI added an element of fun and strategic engagement, drawing enthusiastic participation from students across departments.

The successful conduct of these events was made possible through the dedicated efforts of faculty coordinators, student organizers, and volunteers. Overall, the ECE department's involvement in AZURA 2K25 reflected its commitment to holistic student development through a balance of technical learning and collaborative activities.

Month Of August



The Department of Electronics and Communication Engineering (ECE), under the distinguished banner of the IETE ISF (Institution of Electronics and Telecommunication Engineers Instructional Student Forum), is organizing a comprehensive three-day workshop on the "Internet of Robotic Things" (IoRT). This cutting-edge event is designed to bridge the technological gap between embedded systems, sensor networks, and autonomous robotics. By converging the sensing capabilities of IoT with the actuation power of robotics, the workshop aims to introduce students to the next evolution of intelligent systems, fostering a culture of technical innovation and research within the department.

Over the course of three days, the curriculum is structured to take participants from fundamental concepts to practical deployment. The sessions will likely begin with the interfacing of sensors and actuators with microcontrollers, progressing into wireless communication protocols and cloud integration. Participants will engage in hands-on training, learning how to enable robots to exchange data with other devices and make intelligent decisions based on real-time feedback. This immersive structure ensures that students not only understand the theoretical framework of IoRT but also gain the requisite skills to prototype and build their own smart systems.

Month Of September

The Department of Electronics and Communication Engineering (ECE), under the banner of the IETE Student Forum (ISF), organized an intensive Two-Day Workshop on "Edge-AI". The workshop was designed to introduce students to the rapidly growing field of Artificial Intelligence deployed directly on edge devices an area that is revolutionizing embedded systems, automation, and real-time decision-making. This workshop served as a bridge between AI algorithms and low-power embedded hardware, enabling students to understand how intelligent models can function efficiently without dependence on cloud computing. Participants were introduced to the core concepts of edge intelligence, including lightweight neural networks, microcontroller-based inference, hardware acceleration, and optimization strategies for deploying ML models on constrained devices. Across two days, students engaged in hands-on sessions, working with popular microcontroller and single-board platforms supporting AI, such as TensorFlow Lite Micro and Edge Impulse. Through guided experiments, participants developed mini-projects such as gesture recognition, audio-based classification, and low-power vision tasks—demonstrating real-world applications of Edge-AI in healthcare, smart surveillance, consumer electronics, and IoT automation. Industry experts leading the workshop shared valuable insights into the growing demand for Edge-AI in fields such as smart wearables, robotics, home automation, healthcare devices, and industrial IoT.

They emphasized the importance of combining strong fundamentals in electronics with emerging expertise in AI to stay competitive in the modern technology landscape. Overall, the workshop offered participants a strong foundation in Edge-AI technologies, enhanced their hands-on skills, and motivated them to pursue advanced projects and research in AI-driven embedded systems. The event was well-appreciated by students for its engaging content, practical relevance, and exposure to cutting-edge technological trends.

DEPARTMENT OF ECE