

Month Of October

The Department of Electronics and Communication Engineering (ECE), under the IETE Student Forum (SF), organized a career-focused Guest Lecture on "VLSI Opportunities." Expert speakers from the VLSI industry shared insights on chip design, verification, semiconductor technologies, and the growing demand for skilled engineers in the global and Indian semiconductor ecosystem. The session highlighted essential preparation for VLSI careers, emphasizing strong fundamentals in Digital Electronics, CMOS, and HDL programming (Verilog/VHDL), along with proficiency in C, Python, and industry-standard EDA tools. Students were encouraged to focus on problem-solving, internships, and project-based learning.

The speakers explained the complete VLSI design flow-from RTL design, verification, and DFT (front- end) to physical design, STA, and analog layout (back-end)-and outlined career paths in each domain. Emerging trends such as FinFET technologies, low-power design, AI accelerators, and RISC-V architecture were also discussed. The event concluded with an interactive Q&A session, where students clarified doubts about career roles, internships, and industry expectations. The session concluded with an interactive Q&A, where students clarified doubts related to job roles, internship preparation, and industry expectations. The lecture was highly beneficial, offering valuable insights and motivating students to explore the vast opportunities available in the VLSI domain.

DEPARTMENT OF ECE

Month Of November



The ECE Department organized a one-day technical workshop delivered by Guest Expert Mr. Sudhir Kumar Sunkara, Principal Engineer/Manager at Qualcomm. This event aimed to provide students with industry-level insights into semiconductor technology, communication systems, and the engineering principles behind modern wireless technologies.

The workshop featured an overview of integrated circuit development, system-level architecture design, and testing mechanisms followed in global semiconductor companies. Mr. Sunkara explained the technological evolution from 4G to 5G and current advancements towards 6G communication networks. Students were introduced to concepts such as beamforming, spectrum usage, network reliability, and hardware prototyping. Mr. Sunkara also shared his professional journey and emphasized the importance of problem-solving, innovation, teamwork, and continuous learning in engineering roles. Students were encouraged to focus on core subjects, programming skills, and real-world project execution to prepare for careers in electronics and communication. This workshop was extremely beneficial as it offered direct exposure to industrial workflows and emerging technological demands. Students gained clarity about career opportunities in semiconductor design, embedded systems, and communication engineering.

DEPARTMENT OF ECE