

Highlights of the new B. Tech. course in Electronics Engineering (VLSI Design & Technology)

- Rapid growth of global semiconductor market, currently valued at over \$900 billion, is driven by leading-edge logic nodes, AI hardware accelerators, and high-bandwidth memory, as data centres, smartphones, and automotive electronics scale up their processing demands.
- Considering this, Govt. of India, through its Cabinet meeting held in 2022, had given special emphasis and approved new programs to develop semiconductor and display manufacturing ecosystem in India.
- Accordingly, All India Council of Technical Education (AICTE) took initiative to launch a new B. Tech. course in Electronics Engineering (VLSI Design & Technology) from the academic session 2022-23 across the country to meet the requirement of huge workforce in this field.
- VLSI stands for Very Large Scale Integration. It basically refers to an integrated circuit (IC or chip) having very large scale integration.
- Department of Electronic Science, C.U., has been offering a 2-year M.Sc. course in Electronic Science since 1984.
- **Considering the existing infrastructure and availability of expert faculty members, the department is going to introduce this new B. Tech. course from the coming academic session (2026-27) with an intake capacity of 30 students. This has already been approved by both the University Syndicate and AICTE.**
- **The curriculum is to provide students with comprehensive education in VLSI encompassing a diverse range of subjects that are vital for their success both in research and commercial environments.**
- Internships are essential components of the curriculum as they provide students with significant industry exposure. University is already in touch with leading semiconductor companies for internships.
- The University has recently developed a state-of-the-art VLSI Design Centre.
- Admission as per WBJEE notification. Detailed admission criteria will be published in this website after the declaration of WBJEE result.