



MTECH (MVLSI) PROGRAMME MICROELECTRONICS & VLSI

WHAT

Focused coursework.

Digital VLSI circuits, analog VLSI circuits, semiconductor devices and technology, nanoelectronics devices, microelectronics lab, digital systems design with FPGAs, physics and design of transistors, carrier transport in nanoelectronics devices, compact modelling, optoelectronic devices, RF IC and systems, photonic integrated circuits, design of power semiconductor devices, reliability of nanoscale circuits and systems.

Why is this a first choice of GATE aspirants and most preferred programme of GATE toppers?

- Industry-affiliate and research-centric programme.
- Pull from leading companies like Intel, Texas Instruments, and Qualcomm.
- Besides comprehensive theory, practical training to undertake PhD research at world-leading universities like IISc or those abroad.

PROJECT

Individually-mentored year-long project work, innovative R&D in cutting-edge technologies, peer reviewed international publications/ patents, and industry engagement.

HOW

Learn from leading experts having expertise in scientific research and technology development.

Key components of the programme.

- VLSI circuit/system design.
- Microelectronic devices and technology.

Lab-mode industry-oriented training.

State-of-the-art laboratory facilities with industry-standard EDA software, outstanding test instrumentation, world-class clean room and fabrication facility.

Programme jointly conducted by the departments of ESE and ECE.

WHO can enrol?

- BE/BTech or equivalent degree with a GATE paper in CS, EC, EE, IN.
- Given that this is the most sought-after programme of the country, the GATE cut-offs are extremely high. However, we also encourage GATE scorers up to rank 500 to apply to get a call for the written test and interview.

www.iisc.ac.in



ADMISSIONS



MORE INFO

