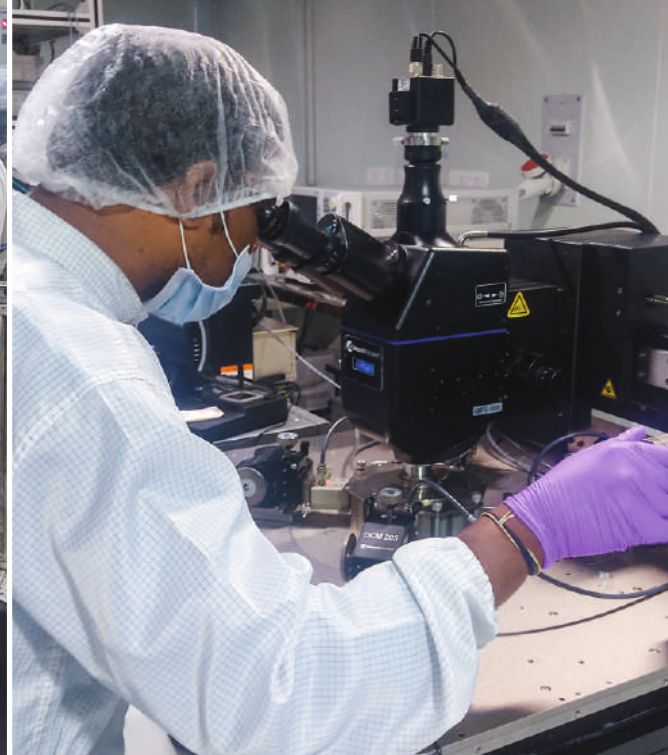
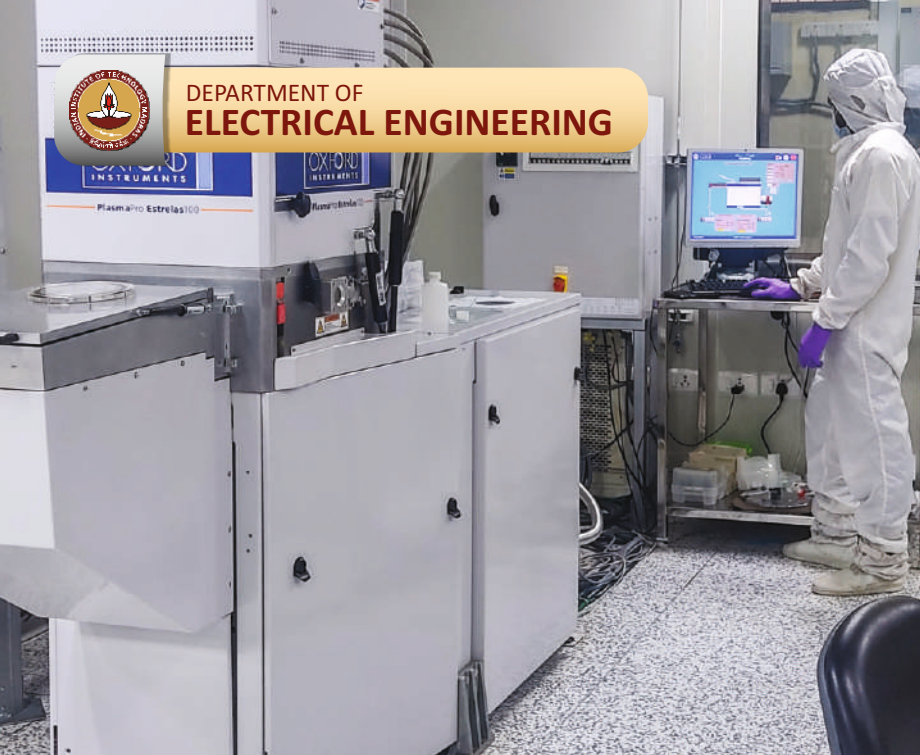




DEPARTMENT OF ELECTRICAL ENGINEERING



Our department was established in 1959. We currently have about 1000 students, 60 faculty members, 30 supporting staff members and 2 post-doctoral fellows with us.

We perform a variety of research work from absolute fundamentals to component design to system integration to deployment/commercialisation. We have strong industry interaction and have been involved in development of state-of-art products. We house extensive fabrication, calibration and testing facilities for carrying out academic projects, sponsored research and consultancy projects.



Prof. Nagendra Krishnapura
Head of the Department



Programmes (M.Tech.)

- Communications and Signal Processing
- Power Systems and Power Electronics
- Microelectronics and VLSI Design
- Electronic System Design and Instrumentation
- RF and Photonics
- Integrated Circuits and Systems
- Control and Optimization

Research areas

Communications And Signal Processing

- Communications
- Image & Speech Processing
- Learning & Optimisation
- Communication Networks

Telecom and Wireless Sensing

- Non-orthogonal spectrum sharing
- Custom air interface for tactical communication
- Distributed RADAR systems
- Signal processing for next-gen wireless

Integrated Circuits and Systems

- Analog and mixed signal ICs
- Noise analysis
- FPGAs and hardware accelerators
- DSP architectures and CAD

RF and Photonics

- Applied optics
- Fiber optic sensors
- Inverse imaging and remote sensing
- High power fiber lasers
- Optical communication and signal processing
- Plasmonics and metamaterials
- Quantum communication
- Silicon photonics

Microelectronics

- High speed electronic and optoelectronic devices





DEPARTMENT OF ELECTRICAL ENGINEERING

- Micro electro mechanical systems and bio-sensors
- Modelling of semiconductor devices

Networks and Stochastic systems

- 5G communications
- Modelling of Stochastic and Queuing Networks
- Quantum Information Theory
- Scheduling in Communication Networks
- Opinion Dynamics in Social Networks

Placements





DEPARTMENT OF ELECTRICAL ENGINEERING



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