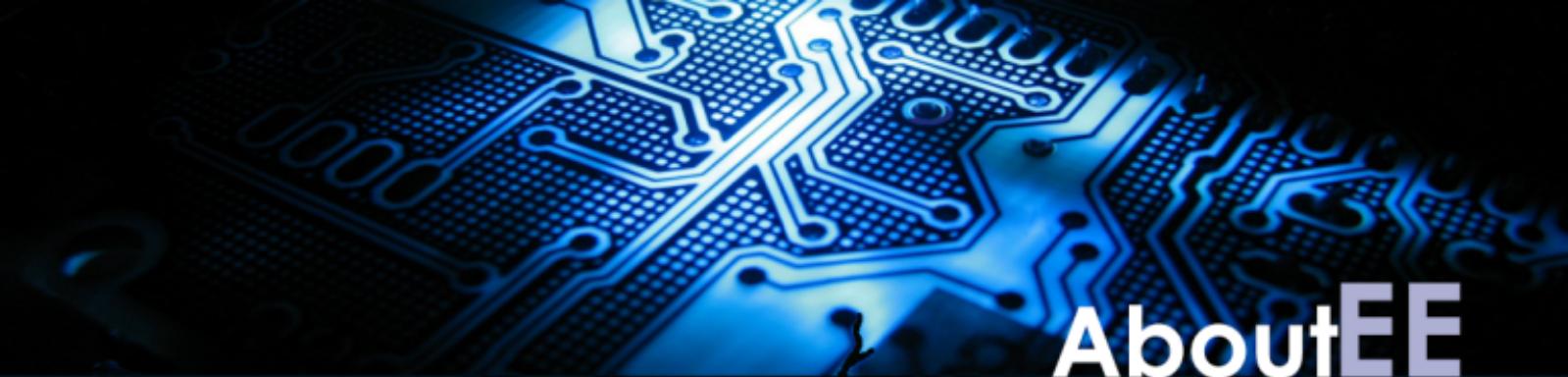




# Department of Electrical Engineering

Indian Institute of Technology  
Kanpur



# AboutEE

- One of the oldest departments of IIT Kanpur
- Widely regarded as a pioneer in electrical engineering education in India
- It offers B.Tech, M.Tech, Dual-Degree and PhD programs
- A total number of 40 highly qualified faculty members
- Around 200 students, selected through examinations like JEE and GATE, will be passing out this year

The research interests of the faculty members encompass a wide gamut of sub-disciplines of Electrical Engineering. The **research activities** of the department includes **fundamental research**, sponsored and **consultancy projects**. They are carried out with active participation of the students, faculty and research engineers. The lab facilities and the infrastructure are **regularly upgraded** and are well supported by the institute and the industry

“The largest multidisciplinary department”

# Infrastructure Labs & Facilities

## Electromagnetics

- Antennas lab
- Anechoic chamber
- Microwave circuits lab
- Microwave lab
- Microwave Imaging and Material Testing lab (MIMT)

## Microprocessors and VLSI

- Semiconductor device fabrication lab
- VLSI lab
- Organic electronics lab
- Microprocessor and microcontroller lab
- PCB fabrication lab
- Optoelectronics and nanofabrication lab

## Power

- Electromechanical Energy Conversion Lab
- High Voltage Lab
- Power Electronics Laboratory
- Power Management Lab
- Power System Simulation and Research Lab



## Other labs

- Data Mining Lab
- NAMPET Laboratory
- Fibre and Quantum Optics Lab
- RFID Laboratory
- Static Controller Laboratory
- Virtual Instrumentation Lab
- Optoelectronics & Nanofabrication Lab
- Intelligent Health Monitoring Systems Lab

## Signal Processing and Control Systems

- Computer vision lab
- Intelligent Systems Lab
- Multimodal Information Processing Systems Lab
- Control Systems Laboratory
- Networked Control Systems Laboratory

## Communications and Networks

- Mobile Communications
- Multimedia Wireless Networks Laboratory
- Wireless Communications Coding and Cognitive Radio Laboratory (WC3 laboratory)
- Networks Laboratory

EE IITK has one of the most flexible and diverse course structures

# Academics Courses & Projects

Photonics	Digital Signal Processing	Speech signal processing
Instrumentation	Image Processing	Fiber Optics
Simulation of Modern Power Systems		Control Systems
Power Systems	Courses EE	Microelectronics
Power Electronics	Digital Microprocessors	Fuzzy Sets
Electromagnetics	VLSI circuits	Semiconductor devices modelling
Microwave measurements and design	Communication Systems	Digital Communication Networks

...and many more



Electromechanical Energy Conversion Lab  
Electronic Circuits Lab

## Lab Courses

Digital Circuits and Microprocessors Lab  
Basic Electrical Engineering Lab      Control Systems Lab

EE IITK has one of the most flexible and diverse course structures



# Academics Courses & Projects

The EE department undertakes a wide range of sponsored research projects. These projects have mainly been funded by Government agencies such as DST, DOE, CSR, MHRD, Ministry of Defense and Industries etc. An illustrative list of major research projects, currently being undertaken, is as shown. Apart from these projects, several departmental faculty members are actively involved in setting up a recently approved interdisciplinary research centre in the area of 'Display Technology' funded by Samtel R&D Electron Devices Limited and also working on a 'Center of Excellence in Networking'

## Industrial projects

Health Monitoring and Fault Diagnosis of Air Compressors and Motors component under the head Passive and Active RFID and Location Technology Research funded by The BOEING Company , USA

Modular Power Converters for Wind-Solar Plant, GE Bangalore

Electromagnetic Simulation and Optimization of Outer-Rotor Surface Permanent Magnet Motor, IHI Japan

Transceiver Chip for the next generation of network in Telecommunication sponsored by British Council, UK

Stability and Performance of Photovoltaics under IndoUK Solar Energy Initiative

Protection Devices for Urban and Rural Exchanges, BSNL

Variable Phase Input Power Plant Design for Telecom Application, BSNL

Developing control strategies for coordination of the 10 motors that drive and steer ISRO's Lunar Rover

DRDO Sponsored Project on Visual Motor Control of a Seven Degrees of Freedom Robot Manipulator

Cognitive Radio, Indo-UK Advanced Technologies Centre of Excellence in Next Generation Networks

# Contact Us



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