



INSTITUTE OF ENGINEERING AND TECHNOLOGY  
LUCKNOW

# PLACEMENT BROCHURE

2018-19

DEPARTMENT OF ELECTRICAL ENGINEERING



Institute of Engineering & Technology  
[www.ietlucknow.ac.in](http://www.ietlucknow.ac.in)

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# Message from The HOD

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The Department of Electrical Engineering at Institute of Engineering and Technology, Lucknow offers undergraduate programs(B.Tech.) in Electrical Engineering, postgraduate (M.Tech.) in Electric Drive & Control, and Doctor of Philosophy (Ph.D.) in Electrical Engineering. The department revises courses curricula regularly to cater the needs of the industry and research. The department inculcate in the mind of students to solve problems of social relevance, pursue higher education and research, work efficiently as individuals and as team members in multidisciplinary projects.



Dr. Kuldeep Sahay  
H.O.D  
Department of Electrical Engineering

Students of the department are known throughout world for their capability and work ethics . Average percentage of students qualifying in the GATE examination annually is above 80% . Moreover students participation in national level Hackathon, Technical fest ,arts ,cultural and sports activities is very remarkable, which is sign of good personality index.

All the faculty members of department are well qualified and holds doctorate degree, having at least one of their degree from Institute of National Importance with research publications in peer reviewed journals. The faculty members are regularly involved in consultancy and sponsored projects to keep updated with current practices of electrical engineering field. On the behalf of Department of Electrical Engineering, I would like to wish all the best to all our students participating in placement activity.





# About the Department

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The Department of Electrical Engineering (EE) has been evolving since the inception of IET Lucknow in the year 1984 and is recognised by AICTE, New Delhi. The department offers B. Tech in Electrical Engineering, M. Tech and Ph.D. program in various specialized areas of Electrical Engineering. The major objective of the department is to impart high quality education and to encourage the students, comprising B.Tech, M.Tech and PhD, in pursuing research. The major research areas of the department include Power System Optimization, Power Systems Analysis and Protection, FACTS, Electromagnetic Transient Simulation, Application of Machine Learning in Power System. EE Department is executing research projects sponsored by **UPCST**. The department has a well qualified faculty, all holding degrees from renowned institute in India. The Department of Electrical Engineering is committed to grow further as a socially responsible and research oriented centre of learning. Department is accredited twice by NBA, New Delhi.



## Vision of the Department

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- To outshine in edification, research and industrial services in electrical engineering in tune with societal aspirations.

## Mission of the Department

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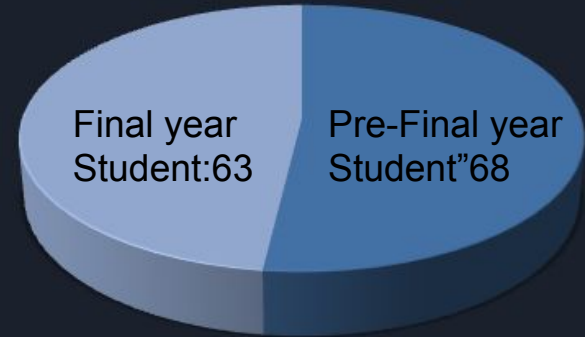
- Impart value education to produce globally competent electrical engineers proficient of extending industrial services.
- Engage in research & progress in cutting edge and sustainable technologies
- Nurture Scientific Personality, Professional Ethic & Industrial Cooperation.

## Academic Program



The department offers B. Tech in Electrical Engineering, M. Tech and Ph.D. program in various specialized areas of Electrical Engineering.

## Bachelor of Technology



The department enrolls top candidates from UPSEE and guides them to be the best suited candidate for any and every sector of the society

# Courses Offered

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## Signal Processing

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- Signals and systems
- Digital signal processing
- Advanced digital signal processing
- Network Analysis

## Communication

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- Principal of communication
- Electromagnetic theory
- Communication system
- Optical Communication
- Wireless Communication

## Mathematics and Computing

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- Introduction to computing- C
- OOPS and data structures
- Probability theory and random process
- Number Theory and calculus
- Linear algebra and real analysis
- Differential equations
- Complex analysis and fourier series
- Mathematical methods in EE
- Optimization techniques
- Introduction to numerical methods
- Computational topology
- Number theory and cryptography
- Microprocessor
- MATLAB based Simulation and Programming





## Power and Control

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- Electrical machines
- Electrical power systems
- Power System Analysis
- Advanced control systems
- Electrical power system operation and control
- Power electronics and drives
- Switchgear & Application
- High Voltage Engineering
- Flexible AC Transmission System

## Devices

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- Semiconductor devices and circuits
- Analog integrated circuits
- Digital circuits and microprocessors
- Introduction to VLSI design
- Embedded systems
- Electronics and instrumentation
- Radio frequency integrated circuits
- Digital VLSI Design
- CMOS Modelling

## Labs

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- Basic Electronics Laboratory
- Digital Circuits Laboratory
- Analog Circuits Laboratory
- Communication Laboratory
- Control and Instrumentation Laboratory
- Electrical Machines Laboratory
- VLSI Laboratory
- Digital Signal Processing Laboratory
- Power Electronics Laboratory
- Power System Protection Laboratory

# STUDENT ACTIVITIES AND PARTICIPATION PROJECTS

- Level and Temperature Control using PLC and SCADA
- Digital RPM Measurement and Control using Arduino
- Underground Cable Fault Detection
- Optical Fibre Fault Detection
- Automatic Voltage and Frequency Control of Wind Power Generation Using Artificial Intelligence



# INDUSTRIAL VISIT

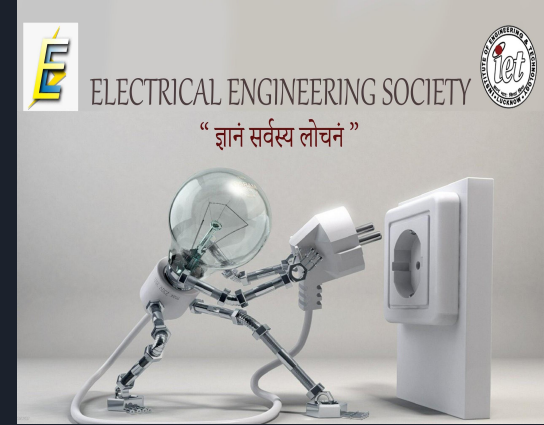
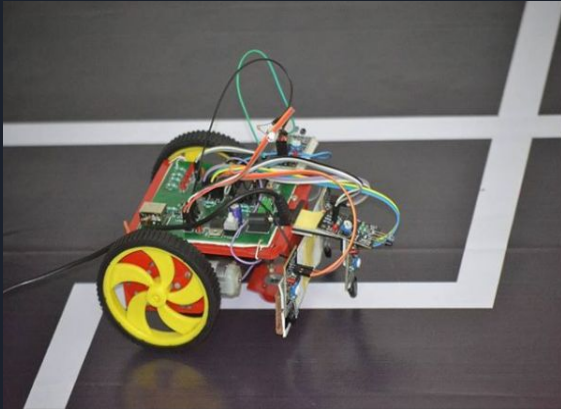
From 04/02/18 to 09/02/18 3rd year students of Electrical Engineering Department visited the L&T Switchgear and Protection training center for 3 days in the batch of two (30 students each) with 2 assigned faculty members to assist them.

The study of switchgear and protection, contactors with its practical dismantling for component study, a comprehensive study of relays and motors and connection of its starter and lastly the study of circuit breakers with practical session in which students were accustomed to different circuit breakers namely MCB, MCCB, ELCB, ACB was done in the three day training program.



## Electrical Engineering Society

The Electrical Engineering Society conducts events and workshops which involves student participation as well as professionals to create an overall developing environment in Technical, Cultural and Social aspects of a student.



## ROBOTICS CLUB

The robotics club stimulates and provides required guidance to the students. While learning to build different kinds, from Autonomous to Manual, everyone has a different aspiration to be in the club.

# SAE

This club was formed to inculcate the knowledge and skills demanded by the automobile industry.

The students compete in GKDC, Ecokart and SKDC.

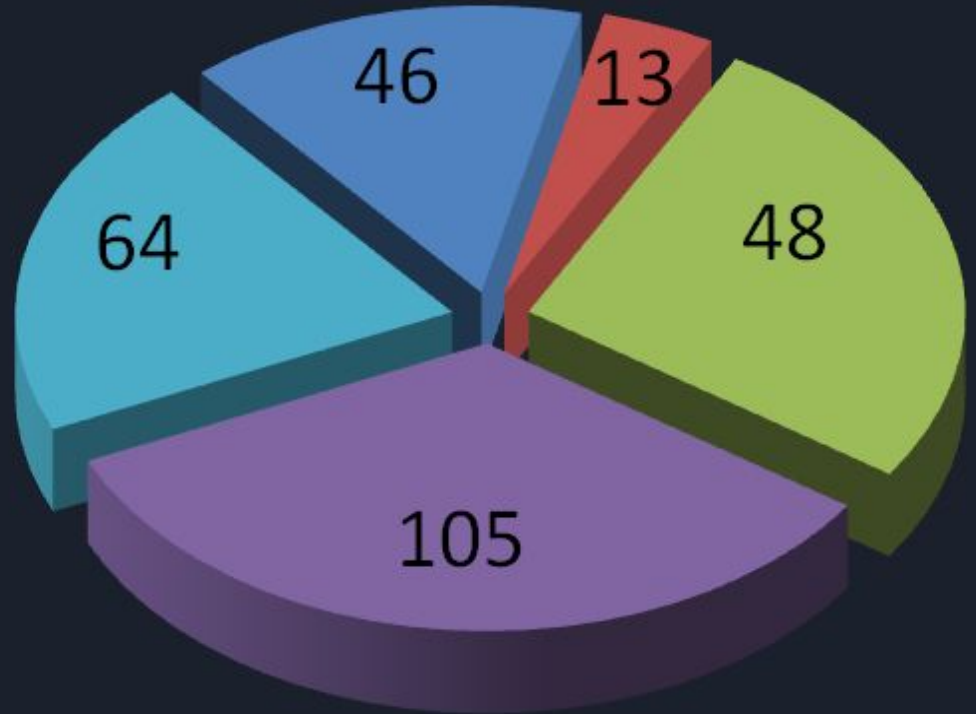


# PARAKRAM

The technical fests provide students a platform to implement their innovative and technical knowledge in different fields with active competition.

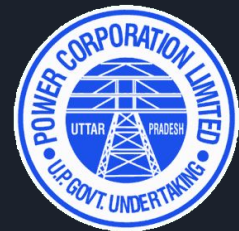
# Our Professor Global Achievement

- National Conference
- National Journals
- International Journals
- Research Publication
- international Conference





# INTERNSHIPS



# Our Alumni Network



SIEMENS



LG

IBM

ALSTOM



EQUINIX



ERICSSON





# CONTACT US

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# REACH US

## Department of Electrical Engineering



24 km from Amausi Airport Lucknow

13 km from Charbagh Railway Station, Lucknow

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[fb.com/ietplacementcell](https://fb.com/ietplacementcell)