

INSTITUTE OF ENGINEERING AND TECHNOLOGY, LUCKNOW



DEPARTMENT OF ELECTRICAL ENGINEERING

PLACEMENT BROCHURE

2019-20

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Message from the HOD

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
Head of Department
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

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 Ph.D, 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

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

Mission of the Department

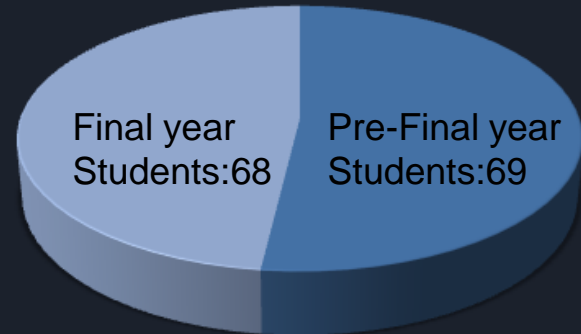
- Impart value education to produce globally competent electrical engineers proficient of extending industrial services.
- Engage in research & progress in cutting edge and sustainable technologies
- Nurture Scientific Personality, Professional Ethic & Industrial Cooperation.

Academic Program



The department offers B. Tech in Electrical Engineering, M. Tech (Electric Drive and Control) 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

Signal Processing

- Signals and Systems
- Digital Signal Processing
- Advanced Digital Signal Processing
- Network Analysis

Communication

- Principal of Communication
- Electromagnetic Theory
- Communication System
- Optical Communication
- Wireless Communication

Mathematics and Computing

- 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

- 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

- 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

Laboratories We Work In

- 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 25/02/19 to 02/03/19 final 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.



INDUSTRIAL TRAINING WORKSHOP

From 28/01/19 to 29/01/19 final year students of Electrical Engineering Department attended a two-day industrial training workshop on 'Industrial Automation: PLC- SCADA' organized by AIESEC, IIT Delhi. The students were introduced to softwares like Delta WPLSoft2.30, RSlogix5000 simulator, Wonderware Intouch and were demonstrated PLC to SCADA communication and implementation on hardware PLC for hands-on and real-time understanding of the industrial application.



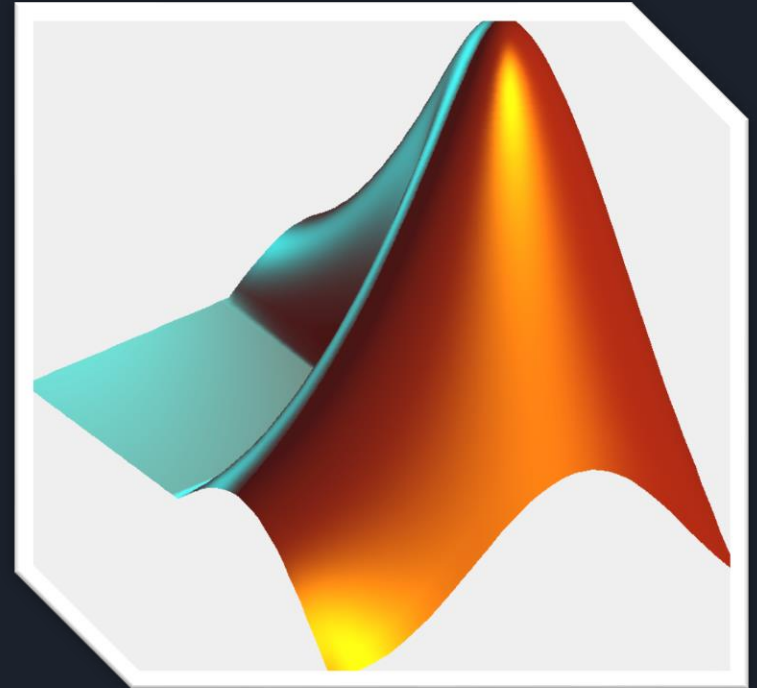
INDUSTRIAL VISIT

From 25/02/19 to 26/02/19 the Electrical Engineering Society organized two days visit to 400KV UPPCL Sarojini Nagar, Lucknow Substation for third year students to learn about various components of substation and their physical arrangement.



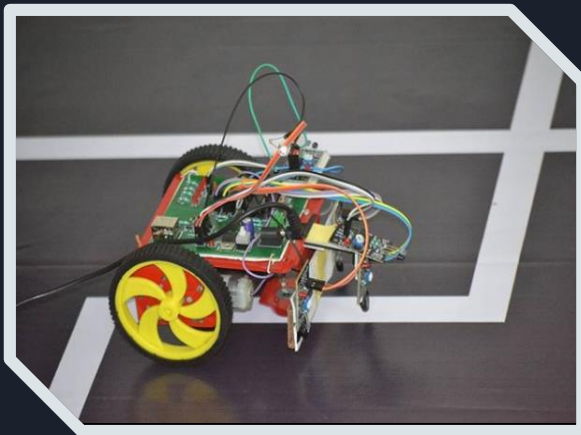
MATLAB LICENCE

The efforts of the Institute and Electrical Engineering Society has procured Matlab Campus Licence for a period of 3 years. This licence will give students access to Toolboxes of Matlab which includes MATLAB, Simulink, 5G Toolbox, Embedded Coder, Image Processing Toolbox and many more.



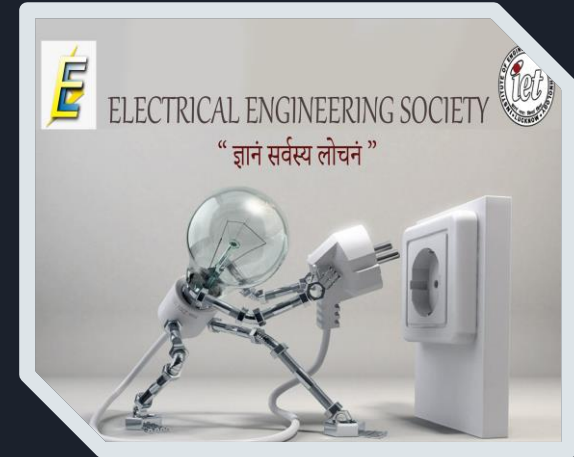
Electrical Engineering Society

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

Welcome to the robotics club of IET LUCKNOW. As an engineer, people always expect us as a group of people having a great interest in robots and yes, of course, an engineering college is not a college until it has a wonderful robotics club. Somewhat having the same image we have INFINIAN completing all our expectations indeed.



ELECTRICAL ENGINEERING SOCIETY



“ ज्ञानं सर्वस्य लोचनं ”

SAE

The collegiate club of SAE, IET Lucknow took shape on 28th September 2015 with notable support from HOD (Mechanical Department), Dr. Arun Mittal (then) and Dr. Shailendra Sinha (present), who are also the advisors to this hard-working club. This club, at present, consists of over 50 students from Mechanical, Electrical, Electronics & Communication Engineering and Electronics and Instrumentation department.

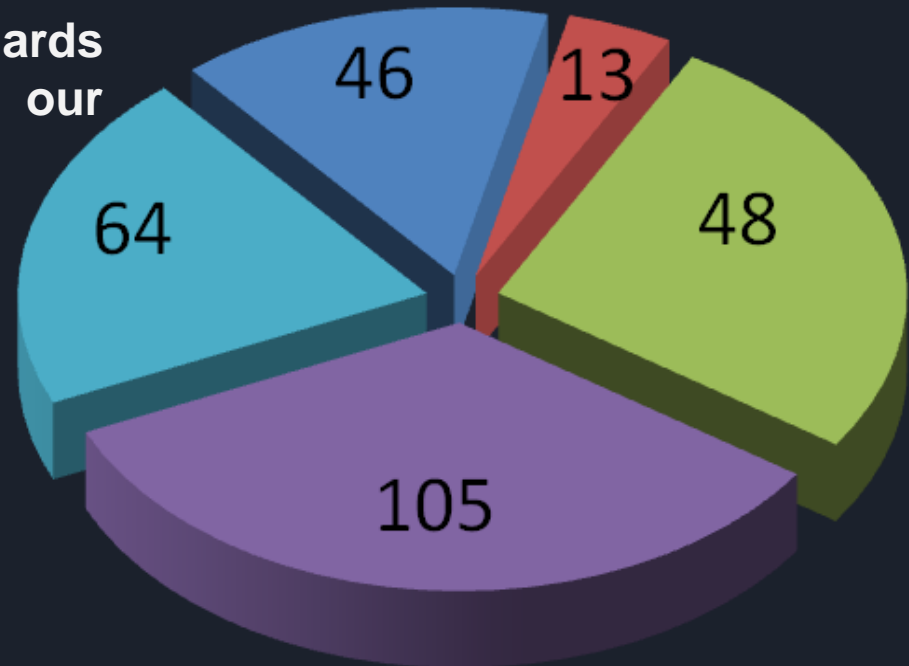


- ❑ In the very first year of its formation, under the team name “EQUINOX”, the club participated in “EcoKart Series 2016”, secured 2nd rank in the virtual round and put up an excellent show in the dynamic round.
- ❑ The next year i.e in 2017, the team “UTSAAD” bagged an overall 15th position among 104 participating teams in the same competition and also came 2nd in brake testing round.
- ❑ In 2018 under the team name “EQUINOX”, the club participated in “SKDC season 2”, secured overall 8th amongst 30 participants in the final round and secure 1st in the business and entrepreneurship plan.

Our Professor Global Achievement

A representation of the high standards and rigorous work put in by our faculties / instructors.

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



INTERNSHIPS



Our Alumni Network



SIEMENS



LG

IBM

ALSTOM

बी एच ई एल



ओ एन जी सी



Contact Us

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24 kms from Chaudhary Charan Singh Intn'l Airport, Lucknow



13 kms from Charbagh Railway Station, Lucknow