



TRAINING AND PLACEMENT CELL
IIT (BHU) Varanasi



2022-2023

Placement Brochure

DEPARTMENT OF ELECTRICAL ENGINEERING
IIT (BHU) VARANASI

About Us

The Department of Electrical Engineering, Banaras Hindu University was established in the year 1919, and can take pride in itself as one of the oldest institutions in the country dedicated to the task of advance training of engineers in the field of electrical sciences . From 1949, a separate undergraduate programme in electrical engineering is being offered. The following postgraduate courses were progressively introduced

- Electrical Machines and Drives(1957)
- Power Systems(1964)
- Control Systems Engineering(1964)
- Power Electronics(1982)

Academic Programmes

The department offers the following academic programs:•

- Bachelor of Technology (4 year course): Admission made through the Joint Entrance Examination(JEE) conducted jointly by the IITs
- Integrated Dual Degree (5year B.Tech+ M.Tech in Power Electronics): Admission made through the Joint Entrance Examination (JEE) conducted jointly by the IITs.
- Master of Technology(2 year course): Admission through GATE.
- PhD Programme: GATE/ NET scores/ Sponsorship by the employer followed by interviews.

Areas of Research

The Department is actively involved in areas of research such as

Control Theory

- Automatic Control
- Model Order Reduction and its Applications
- Applications, Robust Nonlinear and Adaptive Control Theory
- Sliding Mode Control

Machines and Drives

- Development of low-cost linear induction motor propelled rail metro system
- Design, Development, Analysis, and simulation of Power Semiconductor Drives
- Linear Machines
- CAD of Special Devices and System
- Condition monitoring, real-time data acquisition control, and testing

System Engineering

- System modeling, Analysis, and Simulation
- Neural networks
- Parallel Processing
- DBMS
- FMS
- Transportation System
- Energy System Management

Power Systems

- HVDC Control Technology and High Voltage Engineering
- Load Flow Contingency Analysis, State Estimation, and Optimal Operation
- Static VAR Compensation
- Voltage Stability
- Distribution System Automation
- Power Quality
- Power System Protection
- AI and ANN Applications
- Energy Management
- Insulation Coordination and Pollution Studies

Power Electronics

- Switched Reluctance Motor Converters
- Slip Controlled Induction Motor Drives
- Switch Mode Power Supplies (SMPS)
- Energy-System Management
- Resonant Converter/Inverter
- Resonant DC Link PWM Inverter Vector Controlled AC Drive

Areas Of Research

Electrical Energy Management and Simulation

- Electrical Energy System Modelling and Development of Performance Simulation Softwares.
- Development, Design, and Applications of Instrumentation System for Energy Audit.
- Computer Aided Design, Development, Fabrication, and Implementation of highly efficient power electronics controlled electrical equipment and appliances; Battery Power Chopper driven Electrical Vehicles.
- Human Resource Development and Extension of Activities to Different Energy Sectors.

Power Electronics

- Switched Reluctance Motor Converters
- Slip Controlled Induction Motor Drives
- Switch Mode Power Supplies (SMPS)
- Energy-System Management
- Resonant Converter/Inverter
- Resonant DC Link PWM Inverter
- Vector Controlled AC Drive

Microprocessor and Microcontroller Application

- HVDC
- AC Drives
- DC Drives
- Induction Heating
- UPS (1ph,3ph)
- Power Quality Improvement
- Power Control from Non-Conventional energy sources
- Biomedical Engineering
- Robotics

Infrastructure and Lab Facilities

- Networks Laboratory
- Machine and Drives Lab
- Power System and Simulation Laboratory
- System Engineering Laboratory
- Power Electronics Devices Laboratory
- High Voltage Engineering Laboratory
- Electrical Measurement Laboratory
- Department Computing Facility
- Conference and Seminar Halls Equipped with Projectors, Speakers, and Other Multimedia Paraphernalia
- Multimedia Equipped Lecture Halls

Faculties

R.K. Pandey (Head and Professor)

Qualification-: B.Tech., M.Tech., Ph.D

Areas of Interest-: EHVAC & DC Transmission, FACTS Controllers Design & Analysis, Integrated Large Power System Operation & Control, Intelligent Grid Control, High Voltage DC Transmission Technology, Electricity Policy and Planning, Distribution System Planning & Automation, Distributed Energy Resources & Management

Devender Singh (Professor)

Qualifications -: B.E.(Elect.), M.E.(Elect.), Ph.D

Areas of Interest: Distributed Generation, Load Modelling, Load Flow, Distribution System Energy Management.

Mitresh Kumar Verma (Professor)

Qualification-: Ph.D

Areas of Interest: Voltage Stability Studies, Applications of FACTS controllers, Power Quality, Wide Area Monitoring System, Smart Grid.

R.K. Srivastava (Professor)

Qualification-: B.Tech., M.Tech., Ph.D

Areas of Interest: Linear Induction Motor, Electromagnetics applied to electrical machines, Permanent magnet Axial Flux machines, Special Purpose Electrical Machines.

Rakesh Kumar Mishra (Professor)

Qualification-: B.Tech., M.Tech., Ph.D

Areas of Interest: Power Systems Operations & Control, Applications of Computational Intelligence in Power Systems

R.K. Saket (Professor)

Qualification-: B.E.(Elect.Engg.), M.E.(Power Electronics & Drives), Ph.D

Areas of Interest-: Reliability Engineering, Power System Reliability, Electrical Machines & Drives, Reliability Aspects of SEIG/DFIG, Reliability Enhancement of Electrical Machines & Drives, Micro Hydro Power Generation System, Renewable Energy Applications, Control System Design.

Shiv Pujan Singh (Professor)

Qualification-:B.E., M.E., Ph.D

Areas of Interest: Smart Grid, Wide Area Measurement System(WAMS), Distributed generation, Security analysis, Economic operation, Congestion Management, Protection, Load forecasting, Power system optimization, Alapplication sin power system.

Ranjit Mahanty (Professor)

Qualification-: B.Sc.(Engg.), M.Tech, Ph.D

Areas of Interest-: Power Electronics

R K Singh(Associate Professor)

Qualifications -: B.Tech., M.Tech., Ph.D

Areas of Interest-: Energy Storage System and Optimal Bidirectional Battery Chargers, Modeling , simulation, and control of Power Electronics System, Power Electronics for the Hybrid Renewable AC/DC micro-grid, Modeling and control for Point-of-load's, EV/PHEV interface with renewable energy and grid.

Sandip Ghosh(AssociateProfessor)

Qualification-: B.E., M.E., Ph.D

Areas of Interest-: Control System Engineering (Decentralized Control, Time-Delay Systems, Networked Control Systems).

Faculties

Kalpna Chaudhary (Associate Professor)

Qualification-: B.E., M.Tech., Ph.D

Areas of Interest-: Power Electronics; Electrical Machines and Drives; Satellite Solar Power Station; Switched Reluctance Motor for Electric Vehicle Application; PMBLDC Motor; MPPT techniques for Photovoltaic Energy Convers.

Vivek Nandan Lal (Associate Professor)

Qualification-: B.E., M.Tech., Ph.D

Areas of Interest-: Modelling, design and control of Grid Connected Solar PV system, Renewable Energy Sources, ANN application in Power Forecasting and Power Electronics, Electrical Power Distribution System.

Soumya R Mohanty (Associate Professor)

Qualification-: B.Tech., M.Tech., Ph.D

Areas of Interest: Distributed generation (DG) Power System and smart grid & signal processing and optimization applied to Power System Protection and application of robust control in Hybrid Power System and Microgrid.

Santosh Kumar Singh (Associate Professor)

Qualification-: B.E., M.Tech., Ph.D

Areas of Interest-: Power Electronic convertertopologies, Silicon carbide converters, Electric Drives, Hybrid electric vehicles, Multiport Permanent magnet generators, Renewable energy integration and applications

Dr. Avirup Maulik (Assistant Professor)

Qualification-:

Areas of Interest-: Power distribution system, microgrids, DC microgrids, soft computing applications, stochastic modeling of power system uncertainties

Sobhita Meher (Assistant Professor)

Qualification-: B.Tech., M.E.

Areas of Interest-: Computer Science

Jeewan Chandra Pandey (Assistant Professor)

Qualification-: B.Tech., M.E., Ph.D

Areas of Interest: High Voltage Engineering, Synthesis and Characterization of Polymer Nano composites

N.K. Swami Naidu (Assistant Professor)

Qualification-: B.Tech., M.Tech., Ph.D

Areas of Interest-: Power Electronics, Renewable Energy Integration to the grid, Smart Grid, Power Electronic Drives, Power Quality,Hybrid Energy Storage Systems.

Naveen Yalla (Assistant Professor)

Qualification-:B.Tech., M.Tech., Ph.D

Areas of Interest: Multilevel Converters, EV Chargers, Magnetics

Shyam Kamal (Assistant Professor)

Qualification-: B.Tech., Ph.D

Areas of Interest: Lyapunov based design, Hybrid Dynamical Systems, Non-linear Control, Fault Tolerant Control, Modeling of Dynamical Systems, Optimal Control, Adaptive Control

Dr. Chinmaya K A (Assistant Professor)

Qualification-: B.E., M.Tech., Ph.D

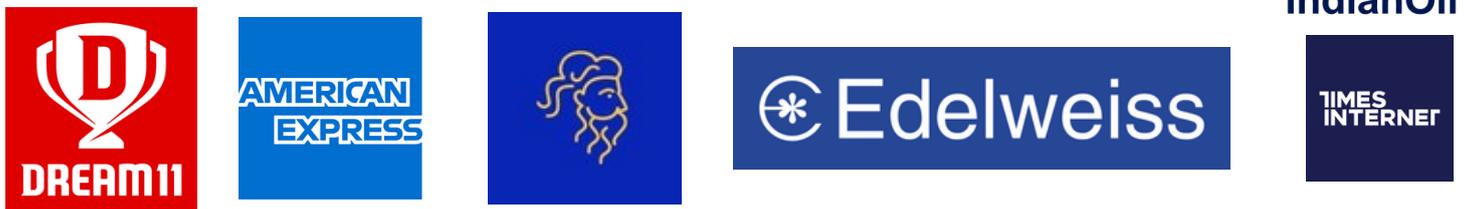
Areas of Interest: Multiphase Machines and Drives, Power Electronics, Renewable Energy Applications, Electric and Hybrid Electric Vehicles, Smart Grid

Manish Kumar (Assistant Professor)

Qualification-: B.E.(Elect.), M.E., Ph.D

Areas of Interest: Renewable Energy Technologies Plasma Physics Coherent Radiation Generation, Terahertz Radiation Generation.

Past Recruiters



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