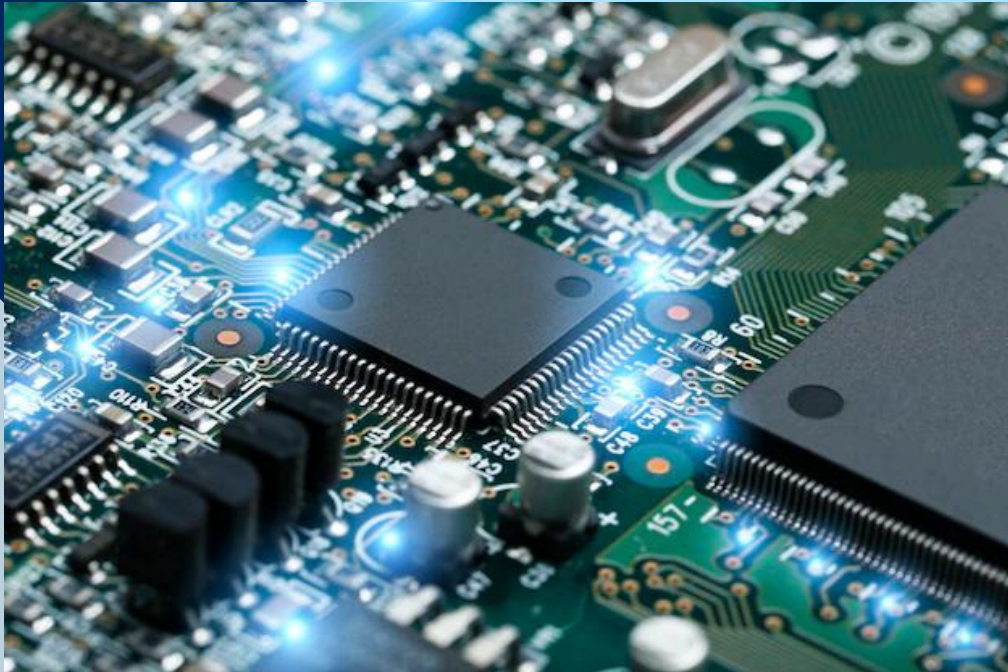




INDIAN  
INSTITUTE OF  
TECHNOLOGY  
(BHU) VARANASI

# PLACEMENT BROCHURE

## 2022-2023



DEPARTMENT OF  
ELECTRONICS  
ENGINEERING

# About Us

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Department of Electronics Engineering came into existence as an offshoot of the Electrical Engineering Department in the year 1971 (when Banaras Engineering College, College of Mining and Metallurgy and College of Technology had been amalgamated to form the Institute of Technology in its present form). Besides teaching students of our own discipline (Electronics Engineering), we also offer the basic courses in Electronics Engineering to almost all the Departments of the Institute, we also teach advanced-level courses to the students of Electrical Engineering and Computer Science and Engineering Departments. We have a training and placement section in the Institute through which most of our students are professionally placed in various jobs.

Our current priority areas of specialization are:

- Communication Systems Engineering
- Digital Techniques & Instrumentation
- Microwave Engineering
- Microelectronics

We aim at providing valuable resources for industry and society through excellence in technical education and research.

The research interest of the faculty members encompass a wide gamut of sub disciplines of Electronics Engineering. Collaboration of faculty members from other disciplines, both within and outside the institute is encouraged. The research activity of the department includes fundamental research, sponsored and consultancy projects, and is carried out with active participation of the students, faculty, staff and research engineers and research scholars.

Our mission is to:

- Educate the students with state of art technologies to meet the growing challenges of the industry.
- To carry out research through constant interactions with research organization and industry.
- To equip students with strong foundation to enable them for continuing education.

# Vision & Mission

# ACADEMIC PROGRAMS

The department offers the following academic programmes:

- B.Tech in Electronics Engineering
- M.Tech in Microwave Engineering
- M.Tech in Microelectronics Engineering
- M.Tech in Communication Systems
- Engineering
- M.Tech in Digital Techniques and Instrumentation
- Doctor in Philosophy (Ph.D)

# INFRASTRUCTURE & LAB FACILITIES

The state-of-art department has been given the status of Centre of Advanced Studies by the UGC for its continuing excellence.

The department hosts three huge independent research centers of UGC/MHRD:

- Centre of Research in Microwave Tubes (CRMT)
- Centre for Research in Microelectronics (CRME)
- Centre for Research in Microprocessor Applications (CRMA)

The department hosts ten independent research laboratories:

- Microelectronics Laboratory
- VLSI CAD Laboratory
- Microwave Laboratory
- Optical Communication Laboratory
- Analog and Digital Communication Laboratory
- Devices Laboratory
- Analog and Digital Circuits Laboratory
- Microprocessor Laboratory
- Solar Cell Laboratory
- Software Laboratory

The department has its own Electronics Engineering Society, which is dedicated to organizing various lectures by experts in their respective fields, workshops, group discussion, competitions, sports, and various other extracurricular and cultural activities to have an overall development of the students. Also, this society conducts a separate event specifically for students of electronics engineering known as Udyam, one of the best departmental fests in the college.

## **ELECTRONICS ENGINEERING SOCIETY**

## **UDYAM**

UDYAM is the technical fest of Department of Electronics Engineering, IIT-BHU. It aims to provide the student with a platform to inculcate a culture of research, thinking and innovation and has future been conceptualized with the primary objective of empowering students with the technical knowledge in the field of electronics. In this age of automation, the initiative of such an event would be highly beneficial for the students and would encourage them to present their ideas, hone their skills and mature tremendously in the process.

UDYAM would also initiate discussions amongst corporate leaders, scientists and students so as to facilitate flow of ideas, business ethics, and technological enlightenment. It shall groom the techno-manager who would have an enormous impact in future. We, at Udyam strive to identify the prodigies in the techno-managerial area, stimulate the nascent prowess and foster their talent to build leaders of tomorrow who would add value to India

# FACULTY PROFILE

## Dr. Amit Kumar Singh

Qualification: M.Tech., Ph. D.

Area of Interest: Microstrip Antennas, Shorted Microstrip Antenna, UWB/SWB antenna, RFID antenna for Tag and Reader, Optical antenna, MIMO Antenna, Optical Antenna, Nano Antenna

## Dr. Amritanshu Pandey

Qualification: M.Tech., Ph.D.

Area of Interest: Optoelectronic Devices: Photodetectors, Nano structures/ 2D semiconductor/ TMDs based devices. Modelling and Simulation: Optical communication: Non Traditional optical fibers, FBG based optical filters, Photodetectors, Silicon Photonics

## Dr. Kishore P. Sarawadekar

Qualification: M.E., Ph. D.

Area of Interest: Algorithms and Architectures of Image/Video Signal Processing, Image Coding System, Biomedical Image Processing, VLSI based Signal Processing

## Dr. M. Thottappan

Qualification: M.E., Ph. D.

Area of Interest: RF and Microwave Engineering, High Power Microwave(HPM) Devices

## Dr. Manoj Kumar Singh

Qualification: M.Tech

Area of Interest: Digital Communication, Coding, Signal Processing

## Dr. Parthasarathi Chakrabarti

Qualification: M.Tech., Ph.D.

Area of Interest: High Speed Semiconductor Devices, Optoelectronic devices and Communication, Photonics

## **Dr. Manoj Kumar Meshram**

Qualification: M. Tech., Ph. D.

Area of Interest: Microwave, Millimeter Wave Technology, Microstrip Antenna, MIMO/Diversity Antenna, Reconfigurable Antenna, UWB Antenna, Implanted Antenna, Metamaterial

## **Dr. Naveen Singh Rajput**

Qualification: M.Tech, Ph.D.

Area of Interest: Sensor Data Analytics and Pattern Recognition using neural network, Internet of Things, Cyber Physical System, Communication and Sensor Network

## **Dr. Pradip Kumar Jain**

Qualification: M. Tech., Ph. D.

Area of Interest: High Power RF / Microwave Devices, Circuits and Systems. RF MEMs, Metamaterial devices Microwave Imaging and Remote Sensing

## **Dr. Smrity Dwivedi**

Qualification: Ph.D.

Area of Interest: High Power Microwave Devices, Conventional Vacuum Electron Devices, Smart Antennas for new generation, Electromagnetic modelling

## **Dr. Satyabrata Jit**

Qualification: M.Tech., Ph. D.

Area of Interest: Modelling and Simulation of Advanced CMOS Devices, Metal-Oxide based thin film devices for electronic, Gas Sensing and Optoelectronic Application, Colloidal Quantum Dot based Photodetectors, Solar Cells, Microwave Photonics Devices and Circuits, Signal Processing and Communication System

## **Dr. Om Jee Pandey**

Qualification: M.Tech., Ph.D.

Area of Interest: Wireless Sensor Networks, Internet of Things, Cyber Physical Systems, UAV-Assisted Edge and Fog Networks, Low-power Wide-area Networks, Social Networks, Signal Processing, Optical and Wireless Communications



## **Dr. Somak Bhattacharyya**

Qualification: Ph.D.

Area of Interest: Microwave Engineering, Metasurface

## **Dr. Shivam Verma**

Qualification: Ph.D.

Area of Interest: Spintronics, Devices and circuits for VLSI, Non-Volatile Memory and Logic Circuits

## **Dr. Sanjeev Sharma**

Qualification: Ph. D.

Area of Interest: Wireless Communication, Signal Processing, Deep Learning/Machine Learning based Wireless Communication System Design

## **Dr. Vishwambhar Nath Mishra**

Qualification: M.Tech., Ph. D.

Area of Interest: Microelectronics, Microsensor, VLSI Design

## **Dr. Priya Ranjan Muduli**

Qualification: Ph. D.

Area of Interest: Intelligent Signal Processing, Machine Learning, IoT, Edge Computing, Image, Speech and Audio Signal Processing, Wireless Communication, and Instrumentation.

## **Dr. Atul Kumar**

Qualification: Ph. D.

Area of Interest: Joint sensing and communication technology (JSC), Prediction of Quality-of-Service) parameters for automotive and robotics, Ultra-Reliable Low-Latency Communication (URLLC), Massive MIMO, Beamforming, 5G-NR, C-RAN, O-RAN.

## **Dr. Sonam Jain**

Qualification: Ph.D.

Area of Interest: Wireless Communication, Physical layer security, Coding Theory, NOMA, MIMO, URLLC



# PAST RECRUITERS



# CONTACT US

## HEAD OF DEPARTMENT

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