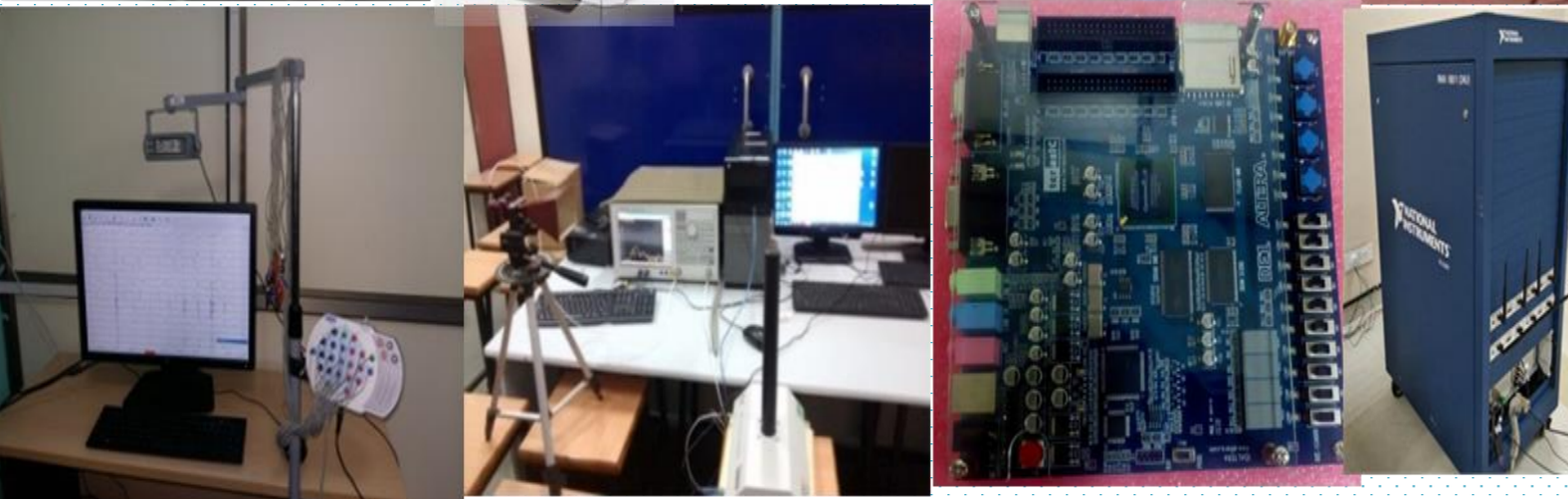




**PDPM**  
**Indian Institute of Information Technology,**  
**Design and Manufacturing, Jabalpur**  
 (An Institute of National Importance Established by Govt. of India)

## Department of Electronics and Communication Engineering



Contact: [ece@iiitdmj.ac.in](mailto:ece@iiitdmj.ac.in) , Visit us: [www.iiitdmj.ac.in/ece.iiitdmj.ac.in](http://www.iiitdmj.ac.in/ece.iiitdmj.ac.in)

पी.डी.पी.एम.  
 भारतीय सूचना प्रौद्योगिकी, अभिकल्पन  
 एवं विनिर्माण संस्थान, जबलपुर



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## Ph.D. Applications Invited for



**Ph.D.**  
**Admission**  
**2023-2024**

*under the Department of Electronics & Communication Engineering*  
**Full/Part Time 2023-24**

### FULL TIME

- Institute Assistantship (IA)
- Govt./Semi Govt. Fellowship Award (CSIR, UGC, DAE, and DST, etc.)
- Sponsored Candidates from Recognized R & D Organizations / Academic Institution/ Industry.

### PART TIME

- External Candidates, Sponsored by Recognized R & D Organizations / Academic Institution/ Industry.
- Institute and Project Staff of IIITDM Jabalpur.

### IMPORTANT DATES

RF & Microwave Engg.

Communication Engg.

Signal & Image Processing

Micro & Nano Electronics

Power & Control Systems

Online Application starts on – June 26, 2023

Last Date of Filling up Online Application –  
 July 12, 2023

Announcement of Short-Listed Candidates –  
 July 14, 2023

### ADMISSION PROCESS

- ❖ Written test and Interview
- ❖ Candidates should have qualified GATE or equivalent National Level test in the last 10 years only.
- ❖ Please refer the site for details:

<https://www.iiitdmj.ac.in/admission.iiitdmj.ac.in/PhD%20Rolling.php>

Discipline of Electronics and Communication Engineering, Indian Institute of Information Technology Design and Manufacturing Jabalpur Dumna Airport Road, Jabalpur-482005, Madhya Pradesh, India

Tel: +91-761-2794495 , Fax: +91-761-2632524, E-Mail: [ece@iiitdmj.ac.in](mailto:ece@iiitdmj.ac.in)

For further information, please visit <http://ece.iiitdmj.ac.in>

## HIGHLIGHTS

Financial support up to 50,000/- towards research related work

Large number of specialization domains

Attractive fellowship as per guidelines of the Ministry of Education

Opportunity of receiving joint supervision from overseas collaborations (Japan, Phillipines, etc)

State-of-art research laboratories

## ELECTRONICS AND COMMUNICATION

The Electronics and Communication Engineering (ECE) discipline was set up in 2005. It is one of the disciplines that offers under undergraduate (B. Tech), postgraduate (M. Tech), and research programs (PhD). The ECE department is bound to give aspiring Electronics and communication students the best academic path for building and developing their bright future in the core areas of Electronics and communication – Electronic Circuit Design, VLSI Design, Automatic Controller Tuning, Signal & Image Processing and Analysis, Wireless Communications, Cooperative Communications, MIC, RF and Microwave Engineering, Circularly polarized antenna, Power Systems, Power Electronics, Signal Processing and Computer Vision; Machine Learning, Deep Learning, Metal Oxide Nanostructures, Nanophotonics & Plasmonics, 5G/6G, IoT(Internet of Thing), III-V Semiconductors, Quantum Wells and Quantum Dots, Solar Cells, Nanoelectronics, Low Power Memory Design, VLSI Circuit and System Design Novel semiconductor materials, Nanoelectronics, Semiconductor Device Modelling, Tunnel FETs, NCFETs, Emerging Semiconductor Devices, Device Circuit Co-design.

### RF & MICROWAVE

**Prof. Dinesh Kumar V**

*Computational Electromagnetics, Conformal Phased Array Antenna, Nanophotonics & Plasmonics*

**Dr. Manoj Singh Parihar**

*RF and Microwave Engineering*

**Dr. Biswajeet Mukherjee**

*MIC, RF and Microwave Engineering*

**Dr. Trivesh Kumar**

*Circularly polarized antenna, High impedance surfaces, EBG, Computational Electromagnetics; RF circuits*

### SIGNAL PROCESSING

**Prof. S. N. Sharma**

*Genomics signal processing, Bioinformatics, Computational genomics and proteomics*

**Dr. Anil Kumar**

*Multirate Signal Processing, Filter and Filter Bank Design, ECG Signal & Image Processing*

**Dr. Varun Bajaj**

*Biomedical Signal Processing, Time-frequency analysis, Artificial Intelligence*

**Dr. Amit Vishwakarma**

*Signal Processing and Computer Vision; Machine Learning, Deep Learning, and Compressive Sensing;*

### MICRO & NANO ELECTRONICS

**Prof. P. N. Kondekar**

*Electronic Circuit Design, VLSI Design, Device Simulation & Modeling*

**Dr. Dip Prakash Samajdar**

*Quantum Wells and Quantum Dots, Solar Cells, VLSI Devices*

**Dr. Pankaj Sharma**

*Nanoelectronics, Electronic Circuit Design, Device Simulation and Modeling*

**Dr. Koushik Dutta**

*Energy Storage Device Performance via Carving Catalytic Property of Metal Oxide Nanostructures*

**Dr. Pushpa Raikwal**

*Low Power Memory Design, VLSI Circuit and System Design, Power Reduction Techniques*

### POWER & CONTROL

**Prof. Prabin Kumar Padhy**

*Automatic Controller Tuning, Mobile Robot Identification and Control of Processes,, Fractional order processes*

**Dr. Sachin Kumar Jain**

*Power Systems, Power Electronics, Power Quality, Load Forecasting, Inertia Estimation*

### COMMUNICATION ENGINEERING

**Dr. Rakesh Kumar Jha**

*5G/6G, IoT, AI/ML, SDN with Optical Interface Network, FSO*

**Dr. Matadeen Bansal**

*Wireless Communications, Cooperative Communications, Cognitive Radios, MIMO*

**Dr. Atul Kumar**

*MIMO Systems, Wireless Communications, NOMA, VLC*