

## About IIIT Raichur



The Indian Institute of Information Technology Raichur (IIIT Raichur) is an Institute of National Importance established by the Ministry of Education, Government of India. Established in 2019, it is one of the youngest and rapidly emerging IIITs in the country. The institute currently offers B.Tech. programmes in Computer Science and Engineering, Artificial Intelligence & Data Science, and Mathematics & Computing. With a strong emphasis on quality education, research, innovation, and industry collaboration, IIIT Raichur is committed to nurturing skilled professionals and researchers capable of addressing future technological challenges.

## About Electronics & ICT Academy at



### PDPM IIITDM Jabalpur

Established by the Ministry of Electronics and Information Technology (MeitY), Government of India, the Electronics & ICT Academy at IIITDM Jabalpur promotes capacity building in emerging areas of Electronics, Information, and Communication Technologies. The Academy conducts training programmes, internships, research, consultancy, and customized academic programmes for faculty, students, researchers, and industry professionals.

## Faculty Development Programme On Design and Implementation of Next Generation Wireless Networks

Wireless communication technologies are rapidly evolving to support intelligent and connected systems. This FDP provides participants with insights into the design, implementation, and optimization of modern wireless networks, covering topics such as intelligent transportation systems, wireless optimization, cloud-edge computing, and emerging communication technologies through expert lectures and hands-on sessions.

**Who can attend:** Suitable for faculty and researchers from colleges, universities, technical and professional institutes. Students, fresh graduates, and industry personnel working in allied disciplines can also attend.

### Important Dates:

**Last Date of Online Registration:** 5<sup>th</sup> July, 2026

**FDP Dates:** 9<sup>th</sup> – 15<sup>th</sup> July (Tentative)

### Patron:

Prof. Harish Kumar Sardana  
Director, IIIT Raichur.

### Coordinators:

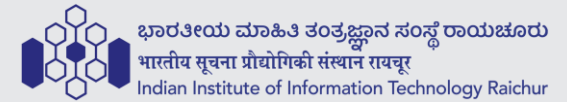
Dr. Jahnvi Tiwari  
Assistant Professor, IIIT Raichur.

Dr. Trivesh Kumar  
Assistant Professor, IIITDM Jabalpur.

**Contact us:** +917081044993, +919760940192

## Faculty Development Programme On Design and Implementation of Next Generation Wireless Networks

Jointly Organized by  
IIIT Raichur



and  
Electronics and ICT Academy  
IIITDM Jabalpur



*An Initiative of the Ministry of  
Electronics and Information Technology,  
Government of India*



## Faculty Development Programme On

### Design and Implementation of Next Generation Wireless Networks

9<sup>th</sup> – 15<sup>th</sup> July, 2026 (online mode)

#### Resource Persons

- Prof. Rajeev Tripathi, MNNIT Allahabad
- Prof. Chiranjeev Kumar, IIT (ISM) Dhanbad
- Dr. Rathinamala Vijay, ARTPARK, IISc Bengaluru.
- Dr. Dheeraj Dubey, IIIT Pune
- Dr. Ankita Srivastava, IIIT Lucknow
- Dr. Priyanka Singh, IISER Kolkata

And many more eminent academicians and researchers from IITs, NITs, IIITs, and other premier institutions.

#### Coordinators

Dr. Jahnvi Tiwari

Assistant Professor, Department of Computer Science and Engineering, IIIT Raichur.

Dr. Trivesh Kumar

Assistant Professor, Department of Electronics and Communication, IIITDM Jabalpur.

#### Course Contents

- Design and Architecture of Next Generation Wireless Networks.
- Vehicular Networks and Intelligent Transportation Systems.
- Wireless Resource Allocation, Scheduling and Network Optimization.
- Markov Decision Processes and Decision-Making Frameworks for Wireless Systems.

- Network Virtualization and Service Orchestration.
- Free Space Optical Communications and Advanced Wireless Technologies.
- 5G Networks, Immersive Communications (VR/XR) and Emerging Research Challenges.

#### Hands-On Sessions

- Modeling and Simulation of Wireless Communication Systems.
- Performance Evaluation and Analysis of Wireless Networks.
- Resource Allocation and Scheduling Algorithms for Communication Networks.
- Optimization Techniques for Next Generation Wireless Systems using MATLAB and Python.
- Simulation and Analysis of Vehicular Communication Networks (NS2).
- Implementation of Network Planning and Traffic Management Strategies.
- Research-Oriented Case Studies and Toolkits for Advanced Wireless Networks.
- Live Project Demonstrations and Case Studies.

#### Programme Features

- Comprehensive exposure to emerging technologies and research challenges in wireless communications
- Opportunities to engage with eminent academicians and researchers from IITs, NITs, IIITs and other leading institutions
- Instructor-led hands-on sessions on wireless network modeling, simulation and optimization.
- E-Certificate upon successful completion along with access to course materials

#### Registration Details

- Registration link - Please fill out registration using the following link:  
<https://forms.gle/ZtXmrEcR2tizFkgn6>
- Registration fee: 500/- for online participation
- Last Date for Registration: 5<sup>th</sup> July, 2026

#### Online Payment Details

- **Internet banking (IIIT Raichur)**

Beneficiary Name	Indian Institute of Information Technology Raichur
Bank Name	SBI
A/C No.	41616903555
IFSC Code	SBIN0004622

- **UPI ID:**  
indianinstituteofinformationtechnologyra@sbi
- **QR Code:**

