

About Electronics & ICT Academy at



PDPM IIITDM Jabalpur

The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics and ICT Academies in the year 2015. In the second phase, the academy at PDPM IIITDM Jabalpur aims at scalable training programmes in niche areas of Electronics and ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. The Academy is identified by the MeitY as a hub of activities for capacity building through training, internships, research, and consultancy programmes in fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized academic programmes for students, corporate sectors and researchers.

ABV-IIITM Gwalior

Atal Bihari Vajpayee-Indian Institute of Information Technology and Management, Gwalior, is a premier institution for higher education and research in the fields of information technology and management. Established by the Government of India, it focuses on grooming professionals with a blend of technical expertise and managerial skills. The institute offers undergraduate, postgraduate, and doctoral programs, fostering innovation and entrepreneurship among its students. With state-of-the-art facilities, experienced faculty, and industry collaborations, ABV-IIITM Gwalior aims to produce leaders capable of addressing contemporary challenges in technology and management domains.

Faculty Development Programme

On

Fundamentals to Frontiers: Theory and Hands-On Design of Advanced Antenna Systems and RF Circuits

This FDP focuses on developing a strong foundation in antenna systems, microwave engineering, and RF circuit design. It aims to provide participants with both theoretical knowledge and practical skills required for modern wireless communication and sensing applications. The program covers fundamental concepts of antennas and RF components. It highlights the design and analysis of advanced antenna technologies including MIMO, phased arrays, dielectric resonator antennas, and millimeter-wave systems. The FDP also includes hands-on sessions using industry-standard simulation and design tools.

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

Important Dates:

Last Date of Online Registration: 14th July 2026

FDP Dates: 17-23 July, 2026

Coordinators:

- (a) Dr. Trivesh Kumar, PDPM IIITDM Jabalpur
- (b) Dr. Rakesh Chowdhury, ABV-IIITM Gwalior
- (c) Dr. Pinku Ranjan, ABV-IIITM Gwalior
- (d) Dr. Manoj Singh Parihar, ABV-IIITM Gwalior

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Fundamentals to Frontiers: Theory and Hands-On Design of Advanced Antenna Systems and RF Circuits

Jointly Organized by

Electronics and ICT Academy

IIITDM Jabalpur



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



And

ABV-IIITM Gwalior



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Faculty Development Programme

On

Fundamentals to Frontiers: Theory and Hands-On Design of Advanced Antenna Systems and RF Circuits

Date : 17th July-23rd July 2026 (online)

Tentative Resource Persons

Faculties from IIT, NIT, IIITS, Other premiere institutes, Industry persons will engage the lectures and hands on sessions.

Coordinators

(a) Dr. Trivesh Kumar
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(b) Dr. Rakesh Chowdhury
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Course Contents

- Fundamentals of antenna systems
- Antenna parameters, radiation mechanisms and feeding techniques,
- RF and microwave circuit fundamentals
- Design and analysis of passive RF components, Dielectric resonator antennas,
- Metamaterials Design, MIMO Technology,
- RF Chip Design,
- Reconfigurable Antennas, AI/ML in Antennas

Hands-On Sessions

- Eigen Mode analysis of DRA
- Circular Polarized Antennas Design Techniques,
- Metamaterial unit cell analysis and Metasurface Design
- MIMO Analysis using HFSS/CST
- RF circuit design including power dividers and filters using ADS

Programme Features

Lectures and demonstrations by domain experts covering real-world challenges, Opportunities to connect with experts from academia and industry, Applications of advanced antenna and RF technologies in modern communication systems, Certificate on successful completion with full access to course material, Use of modern simulation tools and design platforms.

Registration Details

- Registration link – Please fill out registration using the following link:
<https://forms.gle/7G87u6o5EWVAVS3r8>
- Registration fee: 500/ for online participation
- Last Date for Registration: **14th July 2026**

Online Payment Details

- Internet banking

Beneficiary Name	PDPMIIITDM Jabalpur
Bank Name	INDIAN BANK
A/C No.	50018692852
IFSC Code	IDIB000M694

- UPI ID: iiitdmj@indianbk
- QR Code:

