

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.

About ABV-IIITM Gwalior



Atal Bihari Vajpayee Indian Institute of Information Technology & Management Gwalior, established in 1997 by the Ministry of Human Resource Development, Government of India, is India's premier institute offering quality education in

Information Technology and Management. Located in Gwalior, Madhya Pradesh, it fosters a culture of inquiry and research in a competitive academic environment with strong industry connections. Certified NAAC 'A' and declared an Institute of National Importance, ABV- IIITM focuses on excellence in education and collaboration with the corporate world.

Faculty Development Programme On

AI-Driven Signal and Image Processing for Smart Healthcare Systems

This Faculty Development Program (FDP) focuses on recent advancements in AI-driven signal and image processing for smart healthcare systems. The program covers key areas such as medical image analysis, biomedical signal processing, deep learning for healthcare, and intelligent diagnostic systems. It provides knowledge of wearable healthcare devices, edge-AI-based health monitoring, and real-time physiological signal processing. The FDP also emphasizes healthcare data security, medical analytics, and privacy-preserving AI techniques for secure healthcare applications. Through expert sessions and practical insights, the program enables academicians and researchers to explore innovative healthcare solutions and strengthen their teaching, research, and interdisciplinary development capabilities.

Who can attend: Faculty and PhD Scholars

Important Dates:

Last Date of Online Registration: 10th July 2026

FDP Dates: 14th July to 18th July 2026

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Online Faculty Development Programme On AI-Driven Signal and Image Processing for Smart Healthcare Systems

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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Online
Faculty Development Programme
On
AI-Driven Signal and Image Processing for
Smart Healthcare Systems

14 – 18 July 2026 (online)

Resource Persons

Faculty Members from IITs, IIITs, NITs, and Industry experts shall deliver lectures and hands-on.

Coordinators

- Dr. Amit Vishwakarma, ECE, PDPM IIITDM Jabalpur (8486491176, amitv@iiitdmj.ac.in)
- Dr. Vinal Patel, EEE, ABV-IIITM Gwalior (9586288218, vp@iiitm.ac.in)

Course Contents

This Faculty Development Program (FDP) is designed to provide comprehensive theoretical and practical exposure to emerging trends in AI-driven healthcare technologies and their real-world applications in smart healthcare systems. The program focuses on advanced topics including Medical Image Analysis, Biomedical Signal Processing, Deep Learning for Healthcare, Intelligent Diagnostic Systems, Wearable Healthcare Technologies, Edge-AI-Based Health Monitoring, Healthcare Data Analytics, and Privacy-Preserving AI techniques.

Through expert lectures, interactive discussions, research oriented activities, and hands-on laboratory sessions, participants will gain practical insights into modern healthcare technologies and AI-enabled

medical applications. The FDP aims to help academicians, researchers, and professionals strengthen their teaching, research, and innovation capabilities in the rapidly evolving interdisciplinary domain of intelligent healthcare systems.

Theory

- Hearing Aid Design
- Biomedical Signal Processing
- Deep Learning for Healthcare
- Intelligent Diagnostic Systems
- Wearable Healthcare Technologies
- Edge-AI-Based Health Monitoring
- Healthcare Data Analytics
- Privacy-Preserving AI for Healthcare

Lab

Lab sessions include hands-on work with hearing aid algorithms, medical image processing, biomedical signal analysis, AI-based diagnostic models, wearable healthcare data analytics, and intelligent healthcare applications.

Programme Details

- Rigorous training for theoretical and practical knowledge.
- Opportunities to interact with experts in AI-driven healthcare technologies
- Instructor-led intensive hands-on sessions
- Mode of the course: Online
- Timing: 14–18 July 2026
 - o **Morning Sessions:** 09:00 A.M. to 01:00 P.M. (4 hours)
 - o **Evening Sessions:** 02:00 P.M. to 06:00 P.M. (4 hours)
- E-Certificate will be provided to all participants in accordance with EICT PDPM IIITDM Jabalpur norms.

Registration Details

- **Who can attend:** Faculty and Research Scholars (PhD)
- **Registration link:** Please fill out registration using the following link: <https://forms.gle/wiLdU7MgUJBKLVp8>
- **Registration fee:** INR 500
- **Last Date for Registration:** 10 July, 2026
- Registration fee is non-refundable

Online Payment Details

- **Registration fee payment should be made to**

Beneficiary Name	PDPM IIITDM Jabalpur
Bank Name	Indian Bank
A/C No.	50018692852
IFSC Code	IDIB000M694

- **UPI ID :** iiitdmj@indianbk
- **QR Code:**

