Jointly Organized by
07 Electronics & ICT Academies

IIITDMJ, IITG, IITR, IITK, MNITJ, NITP & Spoke Academies
http://www.mnit.ac.in/eict

Online Programme
on
AI in Healthcare: From Fundamentals to Clinical Deployment

Aug 03– Aug 14, 2026

An Initiative funded by
Ministry of Electronics and Information Technology
Government of India
meity.gov.in/content/schemes-projects

This intensive 40 Hours Training Programme aims to enhance participants' knowledge and skills in AI-enabled healthcare. The program provides complete AI pipeline, from foundational concepts to state-of-the-art machine learning (ML) and deep learning (DL) techniques, and their deployment in real-world clinical settings through expert lectures, hands-on sessions, and case studies. **The program is scheduled to take place daily from 03:00 to 07:00 PM.**

Programme Modules:

Module 1: Introduction: Overview of AI in healthcare and its ecosystem, medical imaging modalities (X-ray, CT, MRI, endoscopy), clinical workflow, computer-aided diagnosis, history and success stories, existing challenges

Module 2: Biomedical Signal/Image Processing: Preprocssing, enhancement, feature extraction, segmentation fundamentals, annotation and dataset creation, data augmentation, evaluation metrics

Module 3: Deep Learning for Biomedical Signal/Image Analysis: 1D CNN, 2D CNN, 3D CNN, transfer learning, vision transformers (ViTs), classification and segmentation, lesion detection, foundation models, multimodal imaging, generative models for medical imaging

Module 4: Advanced AI Techniques and Clinical Case Studies: Self-supervised learning, weakly supervised learning, uncertainty estimation, multimodal learning, domain adaptation, knowldege distillation, interpretabaility & explainable AI, trustworthy AI, VLMs, case studies (analysis of EEG, ECG signals, CT, MRI, X-ray, colonoscopy, retinal, and histopathological images).

Principal/Joint-Principal Coordinators

Dr. Deepak R Nayak, PC MNIT Jaipur	Jt-PC, IIT Guwahati	Jt-PC IIITDM Jabalpur
Jt-PC IIT Kanpur	Jt-PC IIT Roorkee	Jt-PC NIT Panta

Experts/Speakers-

Prof. Tapan Kumar Gandhi	IIT Delhi
Dr. Jyoutishman Saikia	AIIMS New Delhi
Prof. M. K. Bhuyan	IIT Guwahati
Prof. Ram Bilas Pachori	IIT Indore
Dr. Debesh Jha	USD USA
Dr. D. Mahapatra	Khalifa University
Dr. Vinayak Rengan	Curium Life
Dr. Subrahmanyam Gorthi	IIT Tirupati
Dr. Biplab Banerjee	IIT Bombay
Dr. Niladri B Puhan	IIT BBSR
Dr. Deepak Mishra	IIT Jodhpur
Prof. M Tanveer	IIT Indore
Dr. Badri N Subudhi	IIT Jammu
Other experts from EICT academies, IITs/NITs/IIITs and top industries/labs	

EICT Academy MNIT Jaipur

Chairman, EICT Academy & Director MNIT Jaipur **Prof. Narayana Prasad Padhy**
Chief Investigator: **Prof. Vineet Sahula**
Coordinator: **Dr. Satyasai Jagannath Nanda**
Co- Chief Investigators: **Prof. Lava Bhargava, Prof. Pilli Emmanuel Shubhakar, Dr. Ravi Kumar Maddila**

Objective (Electronics & ICT Academy-Phase II)

1)To conduct specialized FDPs for faculty/mentor training in line with the vision of MeitY in high-priority areas supporting the "Make in India" and the "Digital India" programs.

2) To promote synergy and collaboration with industry, academia, universities and other institutions of learning

3) To support the National Policy on Electronics 2019 (NPE 2019), which envisions positioning India as a global hub for ESDM sector, including MeitY Schemes/policies such as Programme for Semiconductors and Display Fab Ecosystem; India AI; National Programme on AI, Production Linked Incentive Scheme for IT Hardware & Large-Scale Electronics Manufacturing; EMC; SPECS; Chips to System (C2S); etc.

4) To promote standardization of FDPs through Joint Faculty Development Programmes.

Registration is open to faculty, working professionals, industry persons, doctoral, postgraduate, and graduate students from India and the rest of the world. Participants will be admitted on a first-come, first-served basis.

Registration Fee

Mode of programme	India/SAARC/Africa		Rest of the world
	Academia (faculty/Students)	Others	
Online	Rs. 750/-	Rs. 1500/-	US $ 60/-

(18% GST extra)

- Fee once paid will not be refunded back; however, can be adjusted for a future programme.
- The fee covers online participation in the programme, tutorial, notes and examination, certification charges etc.
- The registration amount may be paid through online mode- NEFT/UPI/Cards/SWIFT, provided at the registration portal.
- Detailed schedule will be shared after receiving registration form

Register online at–http://online.mnit.ac.in/eict/

→ For queries, **contact us at** fdp.academy@mnit.ac.in

EICT Academy MNIT Jaipur

MNIT Jaipur one of the oldest NITs, the institute has a rich heritage of sixty years producing world class engineers, managers, architects and scientists. Ranked 42nd nationally in the NIRF ranking-2025 (Engineering), the institute offers learning opportunities for undergraduate, postgraduate students, and researchers in various domains. Having a lush green campus of over 317 acres within the heart of the pink city, close to Jaipur International Airport, the campus offers a safe and lively environment. A world class teaching infrastructure, state-of-art laboratories welcome you at the campus. The institute has a vision to impart education of international standards and conduct research at the cutting edge of technology.