**Jointly Organized by**
**Electronics & ICT Academies**

IITR, NITP, IIITDMJ, MNIT Jaipur
http://www.mnit.ac.in/eict
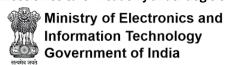
# Online FDP
## on
## Artificial Intelligence for Computer Vision and Medical Image Processing
### 16th June– 23rd June 2025

**Faculty Development Programme**
**Electronics & ICT Academy under aegis of**

**Ministry of Electronics and Information Technology Government of India**

Ministry of Electronics & Information Technology
Government of India

meity.gov.in/content/schemes-projects

**Chairman, EICT Academy & Director MNIT Jaipur**
Prof. Narayana Prasad Padhy

**Chief Investigator**, EICT Academy
Prof. Vineet Sahula, ECE

**Coordinator,** EICT Academy
Dr. Satyasai Jagannath Nanda, ECE

**Co- Chief Investigators**, EICT Academy
Prof. Lava Bhargava, ECE
Prof. Pilli Emmanuel Shubhakar, CSE
Dr. Ravi Kumar Maddila, ECE

**Objective** (Electronics & ICT Academy-Phase II)
1) To conduct specialized FDPs for faculty/mentor training in line with the vision of MeitY by promoting emerging areas of technology and other high-priority areas that are pillars of both the "Make in India" and the "Digital India" programs.
2) To promote synergy and collaboration with industry, academia, universities and other institutions of learning, especially in emerging technology areas.
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.
5) To support the vision of the National Education Policy (NEP 2020), which mandates that Indian educators go through at least 50 hours in professional development programmes per year.
6) To design, develop & deliver specialised FDPs on emerging technologies/ niche areas/ specialised modules for specific research areas for Faculty in Higher Education Institutions (HEI), besides FDPs on multi-disciplinary areas connected with ICT tools and technologies and other digital hybrid domains, covering a wide spectrum of engineering and non-engineering colleges, polytechnics, ITIs, and PGT educators.

An intensive 40 Hours Training Programme in online mode is being jointly organized by 7 EICT Academies for faculty and doctoral students of engineering and technological institutions. It is also open to working professionals from industry/organizations. It aims to equip educators and researchers with basic knowledge to understand the knowledge in AI and computer vision and apply deep learning models to medical image tasks. This FDP will be conducted online starting from June 16 to 23, 2025.

**Experts/Speakers-**

- 40 Hours of Lectures, Hands-on, and Pedagogy/Industry sessions.
- Lectures from Expert Speakers, Hands-on from industry/Academia experts.

**Programme Modules:**

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|---|
| Fundamentals of computer vision and image processing |
| Deep learning models: CNNs, U-Net, ResNet for imaging |
| Medical image datasets (DICOM, NIfTI) and preprocessing |
| Image segmentation, detection, and disease classification |
| AI tools and platforms: Python, OpenCV, TensorFlow, MONAI |
| Challenges: interpretability, data bias, privacy in medical AI |
| Case studies and real-world clinical applications |

**Programme Coordinators:**

| Dr. Neeta Nain, Jt-PC | fdp.academy@mnit.ac.in | 9549654177 (M) |
|---|---|---|
| Dr. Raksha Sharma & Prof. Sanjeev Manhas, Jt-PC IIT Roorkee | Prof T Kishorekumar, PC NIT Warangal | Dr.J P Singh & Prof. M P Singh, Jt-PC NIT Patna |

**Registration:**
Registration is open to faculty, working professionals, industry persons, doctoral, postgraduate and graduate students from India and rest of the world.
Participants will be admitted on first-come first-served basis. Register online at– (http://online.mnit.ac.in/eict/)

**Registration Fee:**

| Academia (faculty/Students): India/SAARC/Africa | Others: India/SAARC/Africa | Rest of the world |
|---|---|---|
| Rs. 500/- | Rs. 1000/- | US $ 60/- |

(A) Fee once paid will not be refunded back.
(B) The fee covers online participation in the programme, tutorial notes and examination, certification charges etc.
(C) The registration amount may be paid through online mode- NEFT/UPI/Cards/SWIFT, provided at the registration portal.
(D) Detailed schedule will be shared after receiving registration form.
→ For Queries, **email us at** fdp.academy@mnit.ac.in

**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 43rd nationally in the NIRF ranking-2024 (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.