



Electronics & ICT Academy IIT Roorkee



An Initiative of
**Ministry of Electronics
& Information
Technology (MeitY)**
Government of India

A Faculty Development Program on

Smart Systems and Intelligent Media: AI Across Software, Image, and Text Domains

In association with

School of Engineering, JNU, New Delhi

July 14 - July 18, 2025

Register Before: July 12, 2025



Venue: Hybrid Mode at School of Engineering, JNU,
New Delhi

Objectives of the Course

- Introduce the foundational and advanced AI concepts across domains
- Explore smart systems in medical imaging, security, and education
- Equip participants with skills in machine learning and deep learning
- Demonstrate hands-on applications in text mining, image processing, and algorithmic ethics
- Develop competencies in designing AI-enabled IoT enclosures and platforms
- Highlight emerging research in AI utility pattern mining and autonomous systems
- Promote interdisciplinary innovation through real-time lab sessions



Why this course ?

This FDP bridges software, image, and text AI applications to prepare participants for the next era of intelligent systems. With expert-led sessions from IITs, JNU, and international universities, it offers both theoretical depth and practical labs. Covering topics from deep learning and text mining to medical imaging and AI-enhanced security, this course supports educators, researchers, and technologists in crafting AI solutions for real-world challenges. By engaging with interdisciplinary themes and hands-on tools, participants are equipped to innovate across diverse domains using smart systems and intelligent media.

Prerequisites

No experience is required, but fundamental knowledge of any programming language would be helpful.

Experts from Academia/Industry

Who Should Register?

Any Interested Faculty/PhD-Scholars
UG/PG/ & Industry Persons can register

Registration Fee

Fees: For Online ₹ 250/- & For Offline ₹ 500/-
Faculty/Research Scholar/ Students
₹ 500/- Industry/Others
Note: Refund will be done in case of course
cancellation only, with in 20 working days

FDP Kits & Refreshment will be provided

How to make Payment

Please make the payment first using the below link
upload the payment receipt when filling out the
Google registration form

<https://eict.iitr.ac.in/instruction-for-payment/>

Course Code: EICTTTR-FDP-5H6-19

Registration Link

<https://forms.gle/WAhdVtCbKZ8iSqH7>



Scan QR for
registration

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July 12, 2025

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Course Outcomes

- Gain multi-domain AI expertise in text, image, and smart system design
- Understand and apply deep learning in real-world labs
- Build secure AI models with IBM's ART and related technologies
- Apply AI tools to medical, industrial, and educational use cases
- Develop intelligent systems using regression and utility pattern techniques
- Integrate AI-driven design in IoT product development
- Foster research and teaching innovation in interdisciplinary AI topics

Focus Areas

- AI applications in healthcare, forensics, and pedagogy
- Deep learning using Python and smart security frameworks
- Image-based diagnostics and visual forgery detection
- Text mining and algorithmic ethics in smart systems
- Blockchain for secure smart systems
- Industrial design with AI-enhanced 3D printing
- Autonomous and cognitive decision-making systems

Course Features

- 40 Hours of Lectures, hands-on, and Pedagogy/Industry sessions.
- Lectures from Expert Speakers, Hands-on from industry/Academia experts.
- Access to learning material and video lectures
- Certificate by E&ICT Academy IIT Roorkee

Who may benefit

- Academic Faculty and Students(UG/PG)
- Government Officials.
- Working Professionals in the Industry and Startups.
- Research Scientists and Technical Staff.

This certificate can be considered in alignment with other Quality Improvement Programs (QIP) as well as NBA and NAAC for recognition/credit.

Principal Investigator

- Prof. Sanjeev Manhas, Head, ECE Department, IIT Roorkee

Chief Patron:

- Prof. Santishree Dhulipudi Pandit, Vice Chancellor

Patron:

- Prof. Pawan Kumar Kulriya, Dean SoE

Course Coordinators

- Prof. Sanjeev Manhas, Head, ECE Dept., IIT Roorkee
- Dr. Ankit Kumar Jaiswal, SoE, JNU, New Delhi
- Dr. Lavish Kumar Singh, SoE, JNU, New Delhi
- Dr. Lalchandama F., SoE, JNU, New Delhi

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