



Electronics & ICT Academy IIT Roorkee



सत्यमेव जयते

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

A Faculty Development Program on

Machine Learning and IoT

In association with

Mahila Engineering College Ajmer
and

ABES Engineering College Ghaziabad

Feb 10 - Feb 14, 2025

Register Before: Feb 07, 2025



Why this course ?

The FDP on Machine Learning and IoT is designed to empower educators and professionals with cutting-edge skills in two transformative fields. With a blend of theoretical and practical knowledge, this program addresses the growing demand for expertise in developing intelligent systems using IoT and ML technologies. Participants will explore innovations in IoT architecture, advanced machine learning techniques, and their real-world applications. This course bridges the gap between academic understanding and industrial practices, fostering the creation of smarter solutions for today's challenges in various domains.

Prerequisites

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

Objectives of the course

- Provide a strong foundation in the principles of Machine Learning and IoT.
- Explore IoT architecture, protocols, and key components.
- Introduce machine learning algorithms for data-driven decision-making.
- Enable participants to integrate IoT and ML for smart applications.
- Familiarize attendees with real-world use cases in healthcare, agriculture, and automation.
- Develop problem-solving and innovation skills for IoT-based systems.
- Enhance teaching and research capabilities in emerging technologies.

Focus Areas

- IoT architecture and protocols.
- Basics and advanced techniques of machine learning.
- Integration of IoT and machine learning for smart systems.
- Real-time data processing and analysis in IoT systems.
- IoT applications in healthcare, industry, and smart cities.
- Security and privacy concerns in IoT-based systems.
- Emerging trends and tools for IoT and ML development.

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



Venue: Hybrid Mode: Mahila Engineering
College Ajmer & ABES Engineering
College Ghaziabad

Course Outcomes

Participants are likely to:

- Gain expertise in developing IoT-enabled solutions.
- Apply machine learning techniques to real-world problems.
- Understand and implement IoT protocols and architectures.
- Develop innovative projects by integrating IoT and ML.
- Address challenges in IoT applications, such as security and scalability.
- Enhance professional skills for research and teaching in emerging technologies.
- Build hands-on expertise with practical lab sessions and case studies.



Experts from Academia/Industry

Who Should Register?

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

Registration Fee

Fees: ₹ 250/- 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/>

Conference Code: EICTIITR-FDP-25-20

Registration Link

<https://forms.gle/b7j1iYv7XNpMp7EPA>



Scan QR for
registration

Register before:
Feb 07, 2025

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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
ECE Department, IIT Roorkee

Course Coordinators

- Prof. Sanjeev Manhas, IIT Roorkee
- Dr. Pankaj Kumar Sharma, Mahila Engineering College Ajmer

Coordinator at Spoke

- Dr. Anil Kumar Dubey, CSE Department, ABES Engineering College Ghaziabad

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