

Electronics & ICT Academy IIT Roorkee



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

A Faculty Development Program

on

Artificial Intelligence and IoT Applications

In association with

IIMT Group of Colleges



Why this course ?

This Faculty Development Program is designed to equip faculty with the knowledge necessary to integrate emerging technologies like Machine Learning (ML) and Internet of Things (IoT) into their teaching and research.

This FDP aims to prepare educators to stay ahead in the rapidly evolving technological landscape, empowering them to guide their students in solving real-world challenges and fostering a culture of innovation in their institutions.

Prerequisites

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

Objectives of the course

The broad objectives of the course are:

- Equip participants with the foundational knowledge of Machine Learning and IoT concepts.
- Train participants in handling real-world IoT datasets through data preprocessing, cleaning, and visualization.
- Enable participants to build simple regression and classification models for IoT applications.
- Provide an introduction to cloud platforms for hosting and scaling IoT and ML-based applications.
- Foster the ability to derive insights and make predictions using ML techniques on simulated IoT data.

Focus Areas

- Basics of Python programming for ML and IoT.
- Data preprocessing, cleaning, and visualization techniques.
- Building, evaluating, and interpreting ML models.
- Exploratory Data Analysis (EDA) on simulated IoT datasets.
- Introduction to cloud platforms for hosting IoT and ML solutions.

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

Jan 27 - Jan 31, 2025

(9:30 AM to 05:30 PM)

Register Before: Jan 25, 2025

Hybrid Mode: Venue: IIMT Group of
Colleges Greater Noida

Course Outcomes

- Understand the fundamental concepts of ML and IoT.
- Preprocess and clean real-world datasets for ML and IoT applications.
- Conduct Exploratory Data Analysis (EDA) and create insightful visualizations using Python libraries like Pandas and Matplotlib.
- Build and evaluate basic regression and classification models using Scikit-Learn.
- Apply feature engineering techniques to improve ML model performance on IoT data.
- Predict and analyze usage patterns or faults based on historical IoT data.

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

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-25-32

Registration Link

<https://forms.gle/BCveBCD5XbX8rw6F7>



Scan QR for
registration

Register before:
Jan 25, 2025

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Who may benefits

- Academic Faculty and Students(UG/PG)
- Government Officials.
- Working Professionals in the Industry and Startups.
- Reasearch 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
ECE Department, IIT Roorkee

Course Coordinators

- Prof. Sanjeev Manhas, IIT Roorkee
- Mr. Ajay Sharma, Dean(R&D),
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