

Electronics & ICT Academy IIT Roorkee

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

A Faculty Development Program on

Data Mining and Data Analytics

In association with

**GNIOT Institute of
Professional Studies,
Greater Noida**

Jan 27 - Feb 05, 2025

Register Before: Jan 25, 2025

Hybrid Mode

Venue: GNIOT Institute of
Professional Studies, Greater Noida



Why this course ?

This course is tailored to empower faculty with both practical and theoretical expertise in data mining, analytics, and Python programming, enhancing their teaching and research proficiency. It focuses on critical areas such as data preprocessing, exploratory data analysis, statistical testing, machine learning models, and time series analysis, along with an introduction to big data analytics. Participants will gain foundational knowledge in data analytics, learn effective data cleaning and analysis techniques, and develop advanced analytical skills. Hands-on projects will equip them to apply these techniques to real-world challenges, enriching their academic and professional endeavors.

Prerequisites

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

Objectives of the course

- Provide foundational knowledge in data mining and analytics concepts.
- Develop Python programming skills essential for data analysis tasks.
- Teach effective methods for data preprocessing and cleaning.
- Enable participants to perform exploratory data analysis (EDA) for deriving insights.
- Introduce statistical testing methods and supervised learning techniques.
- Offer practical experience through hands-on projects to apply learned concepts effectively.
- Equip participants with skills to address real-world analytical challenges in teaching or research.

Focus Areas

- Fundamentals of data mining and analytics.
- Python programming for data analysis and mining.
- Techniques for data preprocessing and cleaning.
- Exploratory data analysis (EDA) methods.
- Parametric and non-parametric statistical tests.
- Machine learning techniques, including regression and classification.
- Basics of time series analysis and big data analytics.

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

Course Outcomes

Participants are likely to:

- Gain foundational knowledge in data analytics and Python.
- Learn to pre-process, clean, and analyze data effectively.
- Develop skills in advanced analytics techniques, including statistical tests and machine learning models.
- Undertake hands-on projects to apply learning in real-world scenarios. Strengthen the ability to interpret and visualize data for impactful decision-making and communication.
- Build a strong foundation to explore advanced topics in data science and big data analytics.



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, within 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-25-14

Registration Link

<https://forms.gle/QLA5wJuUz3duBC9h6>



Scan QR for
registration

Register before:
Jan 25, 2025

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Who may benefit

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

Course Coordinators

- Prof. Sanjeev Manhas, IIT Roorkee
- Prof. (Dr.) Savita Mohan, GNIOT
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Greater Noida

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