

A Faculty Development Program

on

Innovative Technologies for Smart Cities: IoT, AI, and Blockchain

[23 Dec - 28 Dec, 2024]

under the aegis of

**Electronics & ICT Academy
IIT Roorkee**



Supported by

Ministry of Electronics & Information
Technology
Government of India



Experts from Academia/Industry

Registration Fee

Fees: ₹ 250/participant, non-refundable
(Applicable for all)

Note: Refund will be done in case of course cancellation only, within 20 working days

Certificates to participants by E&ICT
Academy IIT Roorkee

Hybrid Mode: Noida Institute of
Engineering and Technology,
Greater Noida

Why this course ?

This course on Innovative Technologies for Smart Cities: IoT, AI, and Blockchain aims to explore the transformative integration of Generative AI, IoT, and Blockchain with digital twins. Participants will learn how these technologies enhance urban management through predictive analytics, real-time data monitoring, and secure transactions. By equipping city planners and stakeholders with the necessary tools and knowledge, the course fosters innovation, efficiency, and sustainability in developing resilient urban environments.

Objectives of the course

- Explore the integration of Generative AI, IoT, and Blockchain with digital twins in Smart City development.
- Understand how these technologies enhance urban planning and management.
- Provide advanced predictive capabilities and real-time data monitoring.
- Equip city planners and stakeholders with knowledge and tools for optimization.
- Improve resource allocation and service delivery.
- Foster innovation for sustainable and resilient urban environments.

Course Features

- 40 Hours of Lectures & Hands-on (Hybrid Mode)
- Lectures from Expert Speakers, Hands-on from industry experts
- Expert talks from the industry
- Access to learning material and video lectures
- Certificate by E&ICT Academy IIT Roorkee

Focus Area

- Introduction to Digital Twins in Smart Cities.
- Generative AI and Its Impact on Digital Twins.
- Role of IoT in Enhancing Digital Twins.
- Blockchain for Secure and Transparent Smart City Operations
- Synergy of Generative AI, IoT, and Blockchain in Digital Twins
- And more!

Prerequisites

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

Registration Link

<https://forms.gle/92MGPrdxB9jwWQic8>

How to make payment

<https://eict.iitr.ac.in/instruction-for-payment/>
Conference Code: EICTIITR-FDP-24-16

Principal Investigator

Prof. Sanjeev Manhas
E&ICT Academy, IIT Roorkee

Course Coordinators

- Prof. Sanjeev Manhas, ECE Department, IIT Roorkee
- Ms. Garima Jain, Deputy Head & Assistant Professor, Department of Computer Science and Business Systems, NIET, Greater Noida

Reach Us:

Landline No.+91-332286457,M.No.- 8112766397
Email: eict@iitr.ac.in