



Electronics & ICT Academy IIT Roorkee



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

A Faculty Development Program on

AI & ML Innovations for a Sustainable Future

In association with

School of Electronics Engineering, KIIT, Bhubneswar

June 30th – July 06th, 2025

Register Before: June 28, 2025



**Venue: Hybrid Mode at: School of
Electronics Engineering, KIIT, Bhubneswar**

Objectives of the Course

- Introduce core concepts of AI & ML focused on sustainability.
- Demonstrate AI/ML applications in agriculture, healthcare, and smart cities.
- Encourage interdisciplinary approaches for solving real-world problems.
- Improve teaching and research skills in AI/ML.
- Promote innovation aligned with UN Sustainable Development Goals (SDGs).
- Enable collaboration through expert talks and hands-on sessions.
- Support research proposal writing and curriculum development in AI/ML.



Why this course ?

With rising global challenges, AI and ML offer powerful tools for sustainable solutions. This FDP provides a practical platform to explore AI/ML in key areas like healthcare, agriculture, and urban systems. Through expert-led sessions, hands-on training, and SDG alignment, participants gain essential skills for real-world application. The course supports academic growth, encourages innovation, and fosters interdisciplinary collaboration—empowering faculty and researchers to drive impactful change through technology in their institutions and communities.

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: ₹ 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/>

EICT Course Code: EICTIITR-FDP-5H6-14

Registration Link

<https://forms.gle/UJVUtMP3xQZoiWDD6>



Scan QR for
registration

Register before:
June 28 , 2025

Click on icon to follow us on:



Course Outcomes

- Grasp AI/ML principles and sustainability relevance
- Apply AI/ML to real-world societal challenges
- Develop AI-based models for agriculture, health, and transport
- Improve research and teaching methods in AI/ML
- Use practical tools for AI development
- Design academic modules on AI for sustainability
- Draft research proposals in aligned domains

Focus Areas

- Fundamentals of AI & ML.
- AI/ML with Applications.
- Industry 5.0, Key Enablers & Applications.
- Generative AI for sustainable society.
- Generative AI for intelligent transportation systems.
- AI for Health and Planet.
- Hardware Accelerators for AI and ML.
- Deep Learning Models on FPGA.
- Tools and Platforms for Hands-on.
- Proposal Writing and Research Design.

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 benefits

- 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 ECE Department, IIT Roorkee

Course Coordinators

- Prof. Sanjeev Manhas, IIT Roorkee
- Dr. Chinmay Chakraborty, Associate Professor, KIIT, Bhubaneswar

Reach Us:

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