eict
IIT Roorkee

Electronics & ICT Academy
IIT Roorkee

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

A Faculty Development Program on Enhancing Agriculture and Allied Domains with AI and Geospatial Technologies

In association with

Sam Higginbottom University of Agriculture, Technolgy And Sciences, Prayagraj

Jan 15 - Jan 19, 2025

(09:00 AM to 05:30 PM)

Register Before: Jan 13, 2025

Hybrid Mode

Venue: SHUATS, Prayagraj

Why this course ?

The course "Enhancing Agriculture and Allied Domains with AI and Geospatial Technologies" explores integrating AI and geospatial technologies to transform agriculture through precision farming, resource optimization, and data-driven decision-making. It aims to equip faculty with cutting-edge knowledge to train future agricultural professionals. Through hands-on lab sessions, participants will gain practical experience in applying these technologies for crop management, sustainable farming, and allied domains. The program provides exposure to modern agricultural solutions, empowering educators to drive innovation in teaching and research for sustainable agriculture.

Prerequisites

Basic knowledge of agriculture, AI, geospatial technologies, and proficiency in data analysis tools.

Objectives of the course

The broad objectives of the course are:

- Develop an understanding of AI and Geospatial Technologies for agricultural and allied domains.
- Build capacity among faculty to integrate modern technological approaches into agricultural education and research.
- Foster interdisciplinary collaboration between agriculture, computer science, and geospatial domains.
- Implement AI and geospatial tools for precision farming and resource management.
- Apply data-driven solutions for crop monitoring and sustainable farming.
- Design advanced curricula with AI and geospatial technologies.

Focus Areas

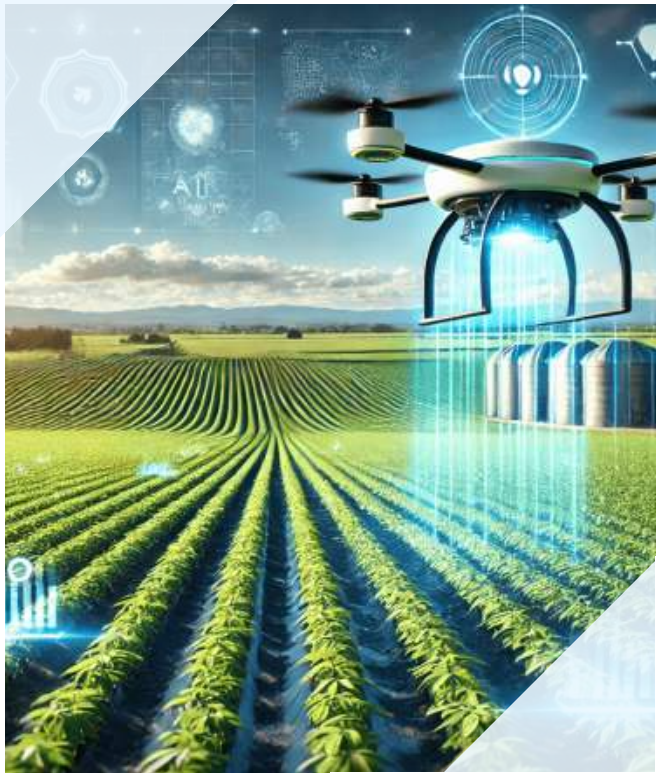
- Artificial Intelligence and Geospatial technologies for Agriculture
- Machine Learning & Data Analytics
- Internet of Things (IoT)
- Cloud Analytics & Data Mining
- Machine Learning Algorithms for Big Data Environment

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

- Understand the role of AI and Geospatial technologies in agriculture.
- Learn precision farming techniques and resource optimization.
- Gain skills in data-driven decision-making for agricultural advancements.
- Equip faculties to teach cutting-edge tools for sustainable agriculture.
- Promote innovative and sustainable agricultural practices.
- Explore real-world case studies to connect theory with practical applications.
- Foster interdisciplinary collaboration for addressing agricultural challenges.



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-25-08

Registration Link

https://forms.gle/fw4c4X6Tbmjz4vSDA

Scan QR for registration

Register before:
Jan 13, 2025

Follow us on:

Who may benifits

- Academic Faculty and Students(UG/PG)
- Government Officials.
- Working Professionals in the Semiconductor 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
- Prof. Deepak Lal, (Dean, Post Graduate Studies, SHUATS, Prayagraj)
- Dr. Rishabh Chaudhary (Associate Director, Student Welfare, SHUATS, Prayagraj)

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