



# Electronics & ICT Academy IIT Roorkee



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

## A Faculty Development Program on

## Empowering Educators with Generative AI

In association with

**IIIT Nagpur**

**July 01<sup>st</sup> - July 10<sup>th</sup>, 2025**

**Timings:** 10:00 AM - 04:00 PM

**Register Before:** June 25<sup>th</sup>, 2025



**Venue: Hybrid Mode at IIIT Nagpur**

### Objectives of the Course

- To introduce foundational concepts of Generative AI, including LLMs and diffusion models.
- To explore the evolution from rule-based systems to deep generative networks.
- To demonstrate hands-on use of tools like GPT-3, Stable Diffusion, and LangChain.
- To examine text vs image generation methods and their educational relevance.
- To provide practical skills in prompt engineering and model fine-tuning.
- To promote responsible and ethical GenAI use in academia.
- To enable faculty to create GenAI-powered teaching and content tools.



### Why this course ?

Generative AI is reshaping how we teach, learn, and create. With advancements in language and image models like GPT-3 and Stable Diffusion, educators must adapt to new paradigms of content creation, interaction, and assessment. This course empowers faculty to understand, experiment, and ethically apply these technologies through a blend of theory and hands-on labs. By the end of this FDP, participants will be equipped to incorporate GenAI tools into curricula, guide students in AI-based projects, and lead innovation in tech-enabled education.

### 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-5H6-08**

#### Registration Link

<https://forms.gle/RCB4qT5uwCaBjKnQ9>



Scan QR for  
registration

**Register before:**  
June 25<sup>th</sup>, 2025

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### Course Outcomes

- Understand foundational and advanced concepts of Generative AI
- Gain proficiency in using Hugging Face, LangChain, and Stable Diffusion
- Design educational content using GenAI tools
- Perform hands-on tasks in text and image generation
- Develop GenAI apps or projects for academic applications
- Address ethical and pedagogical implications of AI integration
- Confidently mentor students and lead classroom innovation using GenAI.

### Focus Areas

- Large Language Models (BERT, GPT, LLaMA)
- Diffusion models for image generation (e.g., Stable Diffusion)
- Prompt engineering for educational tasks
- LangChain for conversational and document-based AI
- Retrieval-Augmented Generation (RAG) techniques
- Fine-tuning text/image models using open-source tools
- Ethical, pedagogical, and assessment applications in education

### 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

This certificate can be considered in alignment with other Quality Improvement Programs (QIP) as well as **NBA** and **NAAC** for recognition/credit.

### Patrons

- Shri Deepak Ghaisas, Chairman, BOG, IIIT Nagpur**
- Dr. Prem Lal Patel, Director, IIIT Nagpur**
- Shri K. N. Dakhale, Registrar**

### Conevnors

- Dr. Tausif Diwan, Associate Dean, IIIT Nagpur**
- Dr. Nishant Ansari, HOD CSE, IIIT Nagpur**

### Principal Investigator

- Prof. Sanjeev Manhas, ECE Department, IIT Roorkee**

### Course Coordinators

- Prof. Sanjeev Manhas, IIT Roorkee**
- Dr. Swati Hira, IIIT Nagpur**
- Dr. Vaundhara Rathod, IIT Nagpur**
- Dr. Mangesh Kose, IIIT Nagpur**

### Reach Us:

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