

# Joint FDP on Prompt Engineering for Educators

## About E&ICT Consortium

EICTA consortium is a joint initiative of the Ministry of Electronics & Information Technology (MeitY) and IITs, NITs, and IIITs under the "Scheme of Financial Assistance for setting up of Electronics and ICT Academies. E&ICT Academies of IIT Kanpur, IIT Guwahati, and MNIT Jaipur are jointly organising a Faculty Development Programme (FDP) on **Prompt Engineering for Educators** scheduled to be conducted from **19th June - 30th June**.

## Spoke Academy

Shah & Anchor Kutchhi Engineering College, Mumbai

## Coordinators

- Prof. BV Phani, IITKanpur - Principal Coordinator
- Prof. Gaurav Trivedi, IITGuwahati - Jt. Principal Coordinator
- Prof. Mahipal Jadeja, MNITJaipur - Jt. Principal Coordinator
- Prof. Manisha Mane, Shah & Anchor Kutchhi Engineering College - Jt. Principal Coordinator

## Registration Open to

Faculty, PhD scholars, Students & Professionals

## FDP Objectives

This course is designed to equip educators, researchers, and academic professionals with the knowledge and practical skills required to effectively leverage Artificial Intelligence (AI) and Generative AI in teaching, research, and curriculum development. Participants will gain a strong understanding of Large Language Models (LLMs), prompt engineering techniques, and AI-powered tools while exploring their applications across Computer Science, Electronics, and related disciplines. The course aims to enhance academic productivity through AI-assisted content creation, assessment design, research support, and curriculum mapping, while fostering awareness of ethical considerations and responsible AI usage.

## FDP Outcomes

- ❖ Apply Generative AI tools and advanced prompting techniques to enhance teaching, learning, research, and academic administration.
- ❖ Design effective prompts for domain-specific applications in Computer Science, Electronics, Embedded Systems, VLSI, and related disciplines.
- ❖ Utilize AI for literature reviews, academic writing, proposal development, assessment creation, and curriculum mapping.
- ❖ Develop AI-enhanced learning resources, lesson plans, presentations, and instructional content aligned with educational outcomes.



## — FDP Curriculum —

### Introduction to AI & Generative AI

- M1: Evolution of AI and Large Language Models
- M2: Generative AI Tools & Their Applications

### Fundamentals of Prompt Engineering

- M3: Anatomy of a Prompt
- M4: Writing Effective Prompts — Guided Practice

### Core Prompting Strategies & Techniques

- M5: Zero-Shot, Few-Shot & Chain-of-Thought Prompting
- M6: Advanced Prompting: ToT, ReAct & Meta-Prompting

### Prompt Engineering for Computer Science Topics

- M7: Prompts for Programming, Algorithms & Data Structures
- M8: Prompts for Systems, Databases & Networking

### Prompt Engineering for Electronics Topics

- M9: Prompts for Circuit Analysis, Signals & Systems
- M10: Prompts for VLSI, Embedded Systems & IoT

### AI-Assisted Research & Academic Writing

- M11: Literature Review, Summarization & Paper Writing
- M12: Grant Proposals, Conference Abstracts & Industry Projects

### AI for Lesson Planning & Content Creation

- M13: Lesson Planning, Learning Objectives & Lecture Content
- M14: AI Tools for Slide Decks, Visuals & Course Materials

### AI for Assessments, Curriculum Design & Mapping

- M15: AI-Generated Assessments, Question Banks & Rubrics
- M16: Curriculum Mapping, CO-PO Attainment & Syllabus Design

### AI Ethics, Integrity, Policy & Tools Ecosystem

- M17: AI Ethics, Bias, Hallucinations & Academic Integrity
- M18: Complete AI Tools Ecosystem for Educators

### Capstone Project, Presentations & Way Forward

- M19: Design an AI-Enhanced Teaching Module (Capstone)
- M20: M20: Capstone Presentations



**₹500** Faculty/Research Scholar  
**₹1000** Industry/students/others



**Online**  
Mode of delivery



**40 Hrs**  
Course Duration



**June 19 -30**  
1:00 PM to 5:15 PM



SCAN QR TO REGISTER

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