

EICT Jaipur Sponsored Faculty Development Program (FDP)

on

Mastering Generative AI: From Beginners to Advanced Applications (09 June-13 June 2025)

Day & Theme	Session 1	Break (15 minutes)	Session 2	1:00 – 2:00 PM	Session 3	Break (15 minutes)	Session 4
Day1: Foundations of Generative AI and Deep Learning	Introduction to Generative AI (SSC)	Short break	Deep Learning Foundations (KS)	Lunch break	Hands-on with TensorFlow/PyTorch Basics (KS)	Short break	Brainstorming: AI Use Cases in Academia & Research (AKT) + Quiz 1
DAY 2: Generative Models - Autoencoders and GANs	Introduction to Generative Models (Latent space, reconstruction, generative loss) (SSC)	Short break	Autoencoders and Variational Autoencoders (VAE) (KS)	Lunch break	Hands-on: Building VAEs in Python (KS)	Short break	Generative Adversarial Networks (GANs) and its variants (AKT) + Quiz 2
DAY 3: Language Generation – LLMs, GPT, and Prompt Engineering	Introduction to NLP, Language Models & Transformers (SSC)	Short break	Inside GPT, ChatGPT, LLaMA, and BERT (AKT)	Lunch break	Hands-on: Language Models (SSC)	Short break	Prompt Engineering & Brainstorming (AKT) + Quiz 3
DAY 4: Multimodal and Advanced GenAI Applications	Image Generation: Stable Diffusion, DALL·E (AKT)	Short break	Audio and Video Generation (AKT)	Lunch break	Hands-on: Text-to-Image or Audio Generation using Pretrained Models (SSC)	Short break	Gen AI in Healthcare (KS) + Quiz 4
DAY 5: Industry Applications, Deployment & Capstone Presentations	GenAI in Industry – Case Studies (Industry Session 1)	Tea break	MLOps for Gen AI	Lunch break	Industry Session 2	Tea break	Feedback, Certification, and Valedictory

*Each Session will be 2 hr (Approx.)

**Time: 9:30 AM to 5:30 PM