

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

\*Each Session will be 2 hr (Approx.)

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