About IIITDM Kancheepuram

Indian Institute of Information Technology Design and Manufacturing Kancheepuram (IIITDM Kancheepuram) is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Education, Government of India to pursue design and manufacturing oriented engineering education and research and to promote the competitive advantage of Indian products in global markets. The institute offers academic and research programs that integrate engineering design, manufacturing and management with information technology. The institute offers undergraduate and postgraduate programs which focus on IT, design and manufacturing in engineering sectors. The institute is located on a 51-acre campus on the outskirts of Chennai, off the Vandalur-Kelambakkam road.

It is a fully residential campus with all students residing within the campus.. The institute offers UG and PG programs in the areas of Computer Science, ECE, Mechanical Engineering, and interdisciplinary Ph.D. programs in core and applied areas of basic sciences and humanities (Physics, Mathematics, Biomedical, Biotechnology, and English) and engineering.

About CSE Department

Department of Computer Science and Engineering (CSE) offers design centric programmes such as B.Tech (CSE), B.Tech(CSE with Major in AI), Dual Degree (DD) programmes (B.Tech in CSE and M.Tech in CSE), M.Tech.(CSE with Specialization in Data Science and Artificial Intelligence) and Ph.D in various research areas in computer science. The department has enthusiastic students numbering around 550 which includes B.Tech, DD students, M.Tech and Ph.D scholars. There are 20 faculty members who are actively involved in research in areas such as knowledge engineering, machine learning, IOT, high performance computing, VLSI architectures, biometrics, image processing, and theoretical computer science.

Registration

Participants interested to attend this program should register online using the following link:
https://forms.gle/zPfnkENPLU6eVqMC9

Payment link:
https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=634626
Payment category: **GenAI**
Last date of registration: **31-07-2025**
Course Registration fee **is Rs. 2360 for students and Rs. 3540 for faculty & industry Including GST.**

Resource Persons

The course content will be delivered from a pool of resource persons on the subject from leading prestigious academic institutions including IITs, NITs, IIITDM and others.

One Week Workshop on
Deep Learning for Generative AI: Theory & Practice
(Physical Mode)
4th– 8th August 2025

Organized by
Department of Computer Science and Engineering

Indian Institute of Information Technology, Design and Manufacturing (IIITDM) Kancheepuram, Chennai, India-600127

www.iiitdm.ac.in

About the Workshop

In today's fast-paced digital world, artificial intelligence (AI) and Deep Learning and Generative AI (GenAI) are no longer confined to research laboratories or tech giants—they are at the core of many modern innovations that shape our daily lives. From personalized recommendations on streaming platforms to advanced medical diagnosis systems and intelligent virtual assistants, AI has established itself as a cornerstone of progress. At the heart of this revolution lies deep learning, a powerful subset of AI that mimics the way the human brain processes data and makes decisions.

Deep learning algorithms and Generative AI, particularly those based on neural networks, have brought about remarkable breakthroughs in areas such as computer vision, image recognition, natural language processing (NLP), and autonomous driving. As industries increasingly rely on data-driven insights, there is a growing demand for skilled professionals who understand the theory behind deep learning and can apply it to solve complex, real-world problems. Recognizing this need, the Deep Learning for Generative AI Workshop was conceived as an intensive, hands-on learning experience tailored for students, researchers, and professionals from various disciplines. The primary objective was to provide participants with a solid foundation in deep learning concepts and enable them to implement practical solutions using modern tools and frameworks.

Topics Covered

- Overview of Traditional AI
- Fundamentals of Deep Learning
- Discriminative Vs. Generative Models
- Generative AI
- Natural Language Processing
- Transformers, GPT, BERT
- Vision Transformer
- Image Generation
- GAN, Diffusion Model
- Emerging Technologies
- Hands-on Session
- Applications in Real World Problems

Important Dates

Last date for Applications   : 31-07-2025
Intimation of Selection   : 02-07-2025
Confirmation of Participation   : 03-07-2025

Chief-Patron

Prof. M.V. Kartikeyan

Director, IIITDM Kancheepuram

Patron

Prof. S. Jayavel

Dean-SRICCE, IIITDM Kancheepuram

Prof. Sivaselvan B

HOD, CSE, IIITDM Kancheepuram

Information for Participants

- Accommodation will be provided on payment basis.
- **Accommodation cost rs.250 per day Including GST**
- Breakfast and dinner can be availed in the mess on payment basis
- Participants will be graciously provided with a working lunch and snacks.
- **Seats are limited (only 40)** and the participants are selected by organizers on a first come first.
- Shortlisted candidates will be informed through their email.
- TA will not be provided to the participants.
- A certificate will be provided to the participant after the successful completion of the event

Workshop Coordinator(s)

Dr. Umarani J, Dr. Rahul Raman, Dr. Preeth R

Assistant Professor (s)
Department of CSE,
IIITDM Kancheepuram, Chennai
Email: umarani@iiitdm.ac.in;
Contact: 9994067092

For queries contact

Mr. Sukesh Babu

Contact: **98476 30806**

cs22d0001@iiitdm.ac.in