

About Electronics & ICT Academy at



PDPM IIITDM Jabalpur

The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics and ICT Academies in the year 2015. In the second phase, the academy at PDPM IIITDM Jabalpur aims at scalable training programmes in niche areas of Electronics and ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. The Academy is identified by the MeitY as a hub of activities for capacity building through training, internships, research, and consultancy programmes in fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized academic programmes for students, corporate sectors and researchers.

About IIITDM Kancheepuram

IIITDM Kancheepuram, established in 2007, is a premier institute in Tamil Nadu, specializing in IT, Computer Science, Electronics, and design-focused manufacturing. As an Institute of National Importance, it offers programs integrating design thinking and technical innovation. With modern infrastructure and a strong research focus, the institute collaborates with industry and academia. Located near Chennai, it benefits from proximity to India's tech hub.

Faculty Development Programme

On

Deep Learning and Foundation Models for Vision, Language, Multimodal, and Quantum AI

This FDP focuses on advanced techniques in AI, covering deep learning for computer vision, natural language processing, and multimodal applications. It also explores the integration of quantum computing with AI, equipping participants with the latest tools and knowledge to drive research and innovation in these cutting-edge fields.

Who can attend: It is suitable for faculty from colleges, universities, and technical and professional institutes can attend. Students, fresh graduates, researchers, and industry personnel working in allied disciplines can also attend.

Important Dates:

Last Date of Online Registration: 25th May 2026

FDP Dates: 8th – 13th June 2026

Coordinators:

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Deep Learning and Foundation Models for Vision, Language, Multimodal, and Quantum AI

Jointly Organized by
IIITDM Kancheepuram, Chennai



and

Electronics and ICT Academy
IIITDM Jabalpur



PDPM
IIITDM
J A B A L P U R

*An Initiative of the Ministry of
Electronics and Information Technology,
Government of India*



Faculty Development Programme

On

Deep Learning and Foundation Models for Vision, Language, Multimodal, and Quantum AI

8- 13th June 2026 (Physical Mode)

Resource Persons

- Prof. R. Balasubramanian, IIT Roorkee
- Prof. Aparjitha Ojha, IIITDM Jabalpur
- Dr. Subrahmanyam Murala, Trinity College Dublin, Ireland
- Dr. Konda Reddy Mopuri, IIT Hyderabad
- Dr. Santosh Kumar Vipparthi, IIT Ropar
- Dr. Prashant W Patil, IIT Guwahati
- Dr. Praveen Kumar, SVNIT Surat
- Dr. Shiv Ram Dubey, IIIT Allahabad
- Prof. Masilamani, IIITDM Kancheepuram
- Dr. Rahul Raman, IIITDM Kancheepuram

Course Contents

- Foundations of Deep Learning
- Modern CNN Architectures and Efficient Vision Models
- Vision Transformers and Self-Supervised Learning
- Transformer Architecture and Contextual Language Models
- Large Language Models and Prompt Engineering

- Multimodal Learning and Vision–Language Models
- Generative Models Across Modalities
- Few-Shot and Meta Learning
- Explainable, Robust, Responsible AI, Quantum AI

Hands-On Sessions

- Basics of Deep Learning
- Training and Evaluating a Baseline Deep Learning Model
- Transfer Learning for Image Classification
- Vision Transformer Implementation
- Fine-Tuning Transformer Models
- Prompt-Based NLP Tasks
- Vision–Language Model Applications
- Generative Model Implementation
- Self-Supervised Learning Experiment

Programme Features

- Covers deep learning from CNNs and RNNs to transformers, LLMs, multimodal AI, and quantum machine learning
- Balanced sessions with practical implementation for every concept
- Experience with Python, PyTorch/TensorFlow, OpenCV, Hugging Face, and Qiskit/PennyLane
- Gain hands-on experience with modern architectures like EfficientNet, ViT, BERT, GANs, and diffusion models
- Develop a strong understanding of optimization techniques and fine-tuning strategies.
- Implement projects in computer vision, NLP, generative AI, and multimodal systems.

Registration Details

- Registration link – Please fill out registration using the following link:
<https://tinyurl.com/y3sx97jr>
- Following are the steps wise procedure :
- <https://www.onlinesbi.sbi/sbicollect/> (SBI e collect - > Educational Institute -> search for IIITDM-Educational Event -> Payment Category -> **DHQL**).
- Registration fee: 1000/- INR
- Last Date for Registration: 25th May 2026

Chief-Patron

Prof. M.V. Kartikeyan

Director

IIITDM Kancheepuram

Patron

Prof. Jayabal K

Dean-DII & CE,

IIITDM Kancheepuram

&

Prof. Aparajita Ojha,

Chair, E&ICT Academy

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Contact Details

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