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 Kurnool

Indian Institute of Information Technology Design & Manufacturing, Kurnool (IIITDMK) was announced in 2014 after receiving the assent of President of India to the Institutes of Information Technology Act, 2014. IIITDM Kurnool is fully funded by Ministry of Education. IIITDM Kurnool was accorded the status of Institute of National Importance. The campus was inaugurated by Hon'ble Prime Minister on 20th February 2024. The institute is offering B.Tech, M.Tech and Ph.D. in CSE, ECE and ME. IIITDM Kurnool students bagged AIR 29 and 42 in GATE 2024.

About Faculty Development Programme

The course is designed to provide fundamental knowledge on Machine Learning, Medical Imaging, Systems Biology and highlights the recent developments in the foundations, theories, models and applications for multi-disciplinary research encompassing of Molecular Biology, Structural Biology, Structural Bioinformatics, Computer Aided Drug Design and medical image analysis. The course also aims to discuss image processing research issues, medical image processing and the image segmentations.

Who can attend: 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: 31.05.2025

FDP Dates: 02-12, June 2025

Coordinators:

Dr. Ranjeet K. Ranjan
Assistant Professor, Dept. of CSE
PDPM IIITDM Jabalpur
Dr. Naresh Babu Muppalaneni
Associate Professor, Dept. of CSE
IIITDM Kurnool
Dr. K. Nagaraju
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Faculty Development Programme
On
Machine Learning in Medical Imaging and Systems Biology (Online mode)

Jointly Organized by

Indian Institute of Information Technology Design and Manufacturing Kurnool

and

Electronics and ICT Academy IIITDM Jabalpur

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

Faculty Development Programme
on
Machine Learning in Medical Imaging and Systems Biology (Online mode)
02-12, June 2025

Resource Persons

- Prof. P. Manimaran, University of Hyderabad
- Dr. Subrahmanyam Gorthi, IIT Tirupati
- Dr. Gopakumar G, NIT Calicut
- Dr. Suganya Devi K., NIT Silchar
- Dr. Mohammad Farukh Hashmi, NIT Warangal
- Dr. Tripti Goel, NIT Silchar
- Dr. Jisna V.A., NIT Karnataka
- Dr. Seenia Francis, CDAC Trivandrum
- Dr. Naresh Babu M., IIITDM Kurnool
- Dr. K. Nagaraju, IIITDM Kurnool
- Dr. Shounak Chakraborty, IIITDM Kurnool

Course Contents

- Machine learning
- Neural Networks
- Deep Learning
- Image processing concepts
- Medical Image Processing
- Systems Biology
- Machine Learning for PPI predictions
- Case studies for Deep learning based disease prediction

- Application of Deep Learning in the Field of Medical Imaging
- Pattern Recognition in Medical Image Processing
- Segmentation of MRI Image
- Generative adversarial networks
- Semantic segmentation and its application in medical imaging

Hands-On Sessions

- Python Basics
- Working on Machine Learning problems
- Working Deep Learning problems
- Experiments with medical image analysis
- Hands on session with network biology
- Experiment with diabetes dataset and validate the results with explainability

Programme Features

- Rigorous training for theoretical and practical knowledge on drug design
- Opportunities to connect with experts in the field.
- Instructor-led rigorous hands-on sessions
- Certificate on successful completion with full access to the course material.

Registration Details

- Registration link – Please fill out registration using the following link: "Registration link"
- Registration fee: **Rs. 500/-**
- Certificate will be provided for the participants who have attended 80% of sessions
- Assessment test will be conducted at the end of the course.
- Last Date for Registration: **31.05.2025**

Online Payment Details

- **Internet banking**

Beneficiary Name	PDPM IIITDM Jabalpur
Bank Name	INDIAN BANK
A/C No.	50018692852
IFSC Code	IDIB000M694

- **UPI ID : iiitdmj@indianbk**
- **QR Code :**

PDPM IIITDM JABALPUR
SCAN & PAY
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