

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 National Institute of Technology Karnataka, Surathkal



National Institute of Technology Karnataka, Surathkal is in Mangalore City, Karnataka State, India. The Institute was established as Karnataka Regional Engineering College in 1960 and upgraded as National Institute of Technology Karnataka (NITK) in 2002.

Faculty Development Programme

Electronics and ICT Academy IIITDM Jabalpur is jointly organizing the Five-Day Faculty Development Program with Department of Mathematical and Computational Sciences, National Institute of Technology, Surathkal. It aims to help faculty and researchers deepen their knowledge of modern computational approaches used across science and engineering. Topics include numerical methods, data-driven models, optimization, image processing, computer vision, and engineering problems, with practical sessions. The program features talks and discussions led by experts from respected national and international institutions to promote collaboration, research ideas, and better teaching practices.

Important Dates:

Last Date of Registration: May 23rd, 2026

FDP Dates: May 25th – 30th, 2026

Coordinators:

Dr. L. K. Balyan,

IIITDM Jabalpur

Dr. Mahima &

Dr. Jerry W. Sangma, NIT Surathkal

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Faculty Development Programme

On

Applied Mathematics for Data- Driven Computing and Engineering Applications

(ONLINE MODE)

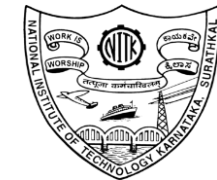
Jointly Organized by

**Electronics and ICT Academy IIITDM
Jabalpur**



And

**National Institute of Technology
Karnataka Surathkal**



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



Resource Persons

- Prof. Ganapati Panda, Ex-Director NIT Jamshedpur, Ex-Deputy Director IIT Bhubaneswar
- Prof. Debi Prosad Dogra, IIT Bhubaneswar
- Prof. Sanjeev Kumar, IIT Roorkee
- Prof. Ram Jiware, IIT Roorkee
- Dr. Tanujit Chakraborty, Sorbonne University, Abu Dhabi, UAE
- Dr. Saurav Mallik, The Univ. of Arizona, USA
- Dr. Swarnendu Bhattacharya, Senior Manager Forecasting & AI Analytics at Unilever
- Dr. Deepak Ranjan Nayak, MNIT Jaipur
- Dr. Alok Patel, Founder & Principal OR Scientist, DecisionOpt
- Dr. Kishore Babu Nampalle, IIIT Ranchi
- Dr. Bharat Soni, IIIT Raichur

Area of Focus

- Mathematical Foundations for Data Science and Artificial Intelligence
- Computational Methods and Optimization
- Applications of Mathematics in Image Processing and Computer Vision
- Interdisciplinary Approaches in AI-Driven Engineering and Medical Imaging
- Integration of Theoretical Mathematics with Real-World Problem Solving

Hands-On Sessions

- Linear Algebra & Probabilistic Reasoning in Machine Learning using Python
- Image fundamentals, preprocessing & segmentation techniques
- From Theory to Implementation: Deep Learning in Practice
- Solution of Differential Equations & Dynamical Systems Using Neural Networks
- Mathematical Analysis of Fluid Structure Interaction in Matlab

Programme Features

This five-day Faculty Development Programme brings together expert-led sessions by distinguished faculty from premier academic institutions and active researchers working at the frontier of applied mathematics and intelligent computing. Participants will engage with core and advanced topics spanning mathematical foundations for data science and artificial intelligence, computational methods and numerical optimization, signal and image processing, and interdisciplinary applications in AI-driven engineering and medical imaging. The programme places special emphasis on emerging research areas including deep learning architectures, convolutional and transformer-based models, probabilistic inference, partial differential equations in physics-informed networks, and multi-source ensemble transfer learning for diagnostic classification.

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.

Patron

**Prof. Bhartendu K Singh, Director
IIITDM Jabalpur**

Coordinators

Dr. L. K. Balyan, IIITDM Jabalpur

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Dr. Mahima, Asst. Prof., NITK

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Dr. Jerry W. Sangma, Asst. Prof., NITK

Email: jerry.sangma@nitk.edu.in

Registration Details

Please complete your registration using the following link:

<https://forms.gle/KUewYyUhiDzPR4pE6>

Registration Fee

(Inclusive of GST)

<i>Student Participants</i>	<i>INR 500/-</i>
<i>Faculty Participants</i>	<i>INR 500/-</i>
<i>Industry Participants</i>	<i>INR 5900/-</i>

**Registration Fee Non-Refundable*

Last Date for Registration: May 23rd, 2026

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:**

