

Faculty Development Programme

DATA SCIENCE FOR ALL

October 14 - 24, 2026

(10:30 AM - 12:30 PM and 2 PM - 4 PM) live streaming

Jointly organized by Electronics and ICT Academies
Established by the Ministry of Electronics and Information Technology, Govt. of India

Objectives (Electronics & ICT Academy-Phase II)

1. To conduct specialized FDPs for faculty/mentor training in line with the vision of MeitY by promoting emerging areas of technology and other high-priority areas that are pillars of both the "Make in India" and the "Digital India" programs.
2. To promote synergy and collaboration with industry, academia, universities and other institutions of learning, especially in emerging technology areas.
3. To support the National Policy on Electronics 2019 (NPE 2019) which envisions positioning India as a global hub for ESDM sector, including MeitY Schemes/policies such as Programme for Semiconductors and Display Fab Ecosystem; India AI; National Programme on AI, Production Linked Incentive Scheme for IT Hardware & Large-Scale Electronics Manufacturing; EMC; SPECS; Chips to System (C2S); etc.
4. To promote standardization of FDPs through Joint Faculty Development Programmes.
5. To support the vision of the National Education Policy (NEP 2020), which mandates that Indian educators go through at least 50 hours in professional development programmes/year.

Programme Coordinators

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Objective of FDP:

To provide participants with a practical foundation in data science, statistics, machine learning, data mining and deep learning. The programme combines mathematical concepts with Python-based demonstrations and applications, enabling participants to analyse data, build predictive models and understand modern data-driven techniques.

Resource Persons:

Speakers from IITs, NITs, and IIITs, together with practical perspectives from industrial leaders

Programme Modules:

1. Data Science Foundations & Python

Introduction to data science, data preprocessing, visualization, descriptive statistics and essential Python programming.

2. Mathematics, Probability & Statistics

Linear algebra, SVD, probability distributions, sampling, estimation, confidence intervals and statistical hypothesis testing.

3. Optimization & Predictive Modelling

Mathematical optimization, gradient-based methods, linear regression, classification, model evaluation and cross-validation.

4. Machine Learning & Data Mining

Principal Component Analysis, clustering, association-rule mining and recommender-system fundamentals with practical demonstrations.

5. Deep Learning & Text Analytics

Introduction to artificial neural networks and PyTorch, neural-network training, text preprocessing and an overview of CNNs and RNNs.

Registration Link: <https://forms.gle/nmzWijNgypoi3h6p7>

Beneficiary Name -PDPM IIITDM Jabalpur

Bank Name - INDIAN BANK

A/C No. - 50018692852

IFSC Code - IDIB000M694

Last Date of Registration – 13th October 2026

Registration fee is nonrefundable

Certification Fee: Academic (Faculty / Students): ₹ 885/-

Industry Professionals / Others: ₹ 1770/-

Participants from the Rest of the World USD: US\$ 60



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