Online Faculty Development Programme on

Python Programming for Engineering Applications

28 July - 08 August 2025

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

| IIITDM Jabalpur | IIT Guwahati | IIT Kanpur | IIT Roorkee | MNIT Jaipur | NIT Patna | NIT Warangal |

Objective (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 per year.
6. To design, develop & deliver specialized FDPs on emerging technologies/ niche areas/ specialized modules for specific research areas for Faculty in Higher Education Institutions (HEI), besides FDPs on multi-disciplinary areas connected with ICT tools and technologies and other digital hybrid domains, covering a wide spectrum of Engineering. and non-engineering colleges, polytechnics, ITIs, and PGT educators.

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An intensive 40 hours Training Programme will be offered in online mode (including theory and hands-on sessions) and is intended for faculty and research students of engineering and technological institutions. The training program will explore the theme of "Python Programming for Engineering Applications" which is a topic of necessity in all engineering applications and domains. The classes will be held from 10 AM - 02 PM.

COURSE OBJECTIVES:

This two-week Programme is designed to provide a deep insight into Python fundamentals, intermediate Python and error handling, OOP and advance tools including Multithreading and Multiprocessing for the first 4 days. From Day 5 onwards the various engineering applications using Python programming will be discussed.

COURSE OUTCOMES:

- Understand the Fundamentals of Python Programming
- Solve Engineering Problems using Programming Constructs
- Implement Numerical and Scientific Computations
- Visualize Engineering Data Effectively
- Perform File Handling and Data Processing.
- Design and Develop Python Programs for Real-World Engineering Tasks.
- Collaborate and Communicate Effectively in Technical Projects.
- Analyze and Debug Python Code Efficiently

Resource Persons:

- Dr. Anirban Dasgupta, IIT Guwahati
- Dr. Anjan Chowdhury, IIT (ISM) Dhanbad
- Dr. Hanumant Singh Shekhawat, IIT Guwahati
- Dr. Bhaskar Mondal, NIT Patna
- Dr. Mukesh Kumar, NIT Patna
- Dr. Saurabh Srivastava, IIT (ISM) Dhanbad
- Mr. Kaushlendra Singh Sisodia, UniConverge Technologies Pvt. Ltd.
- Other eminent professionals from reputed institutions.

Registration Link: https://forms.gle/sNizSZXLHJiK6UVJ6
Last Date of registration: 21/07/2025
Beneficiary Name -PDPM IIITDM Jabalpur
Bank Name -   INDIAN BANK
A/C No. -   50018692852
IFSC Code - IDIB000M694
Certification Fee: Academic (Faculty/Students): ₹500/-
Industry Professionals/Others: ₹1000/-
The fee covers course material and certification charges.

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