



PDPM IIITDM Jabalpur

E&ICT Academy, PDPM IIITDM Jabalpur

Online Winter Faculty Development Programme IoT Applications with Sensors, Embedded Systems, and Data Analytics

February 17 - 28, 2025 : Online live streaming

Jointly Organized by

IIT Roorkee



IIITDM Jabalpur



NIT Patna



IIT Guwahati



MNIT Jaipur



Course Contents and Schedule

[February 17 - 28, 2025, 4:00 PM to 8:00 PM]

- IoT Fundamentals: Introduction to IoT and its applications.
- Hardware and Platforms: Arduino hardware, Tinkercad for simulations, and hands-on prototyping.
- Programming and Communication: IoT programming environments, serial communication, and protocols like UART, I2C, and SPI.
- Networking and Cloud Integration: WiFi, LoRaWAN, cloud platforms, and IoT databases.
- Data Analytics in IoT: Collecting, processing, and analyzing data from IoT devices using cloud-based tools and databases.
- Hands-on skills using platforms like Tinkercad, Arduino, and cloud databases for IoT experimentation.
- Demonstration of effective pedagogy strategies for teaching IoT concepts and tools.

Coordinators

Prof. Vijay Kumar Gupta,
Joint- Principal Coordinator, IIITDM Jabalpur
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Prof. Sanjeev Manhas and Prof. Rahul Thakur,
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RESOURCE PERSONS

- Prof. Rahul Thakur, IIT Roorkee
- Prof. Sudeepta Mishra, IIT Ropar
- Dr. Anbumunee Ponnai, Chief Technical Officer, IBM India

Registration Details

Registration link – Please fill in the registration form using the following link:

<https://forms.gle/gJWniP6pnn4Xq9vp7>

Registration fee: INR 500/-

Last Date for Registration: February 13, 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

PDPM IIITDM JABALPUR
SCAN & PAY



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