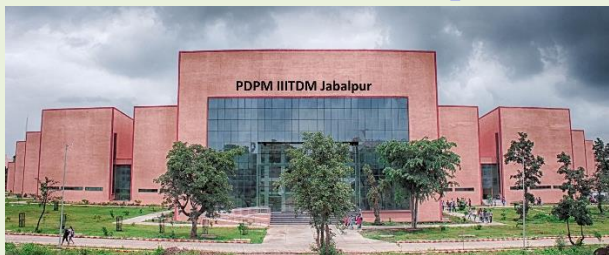


About Electronics & ICT Academy at PDPM IIITDM Jabalpur



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.

IIITDM Kurnool

Indian Institute of Information Technology Design and Manufacturing, Kurnool (IIITDMK) was announced in 2014 after receiving the assent of President of India to the Institutes of Information Technology Act, 2014, and its subsequent publication in the Gazette of India, Extraordinary, Part- II, Section I, on December 08, 2014. The institute was announced by Government of India to give effect to its obligation under the Andhra Pradesh reorganization act 2014. The IIITDM Kurnool campus is located far away from the bustling life of the metropolis in the mineral-rich mountain trails of the Rayalaseema region of Andhra Pradesh.

Faculty Development Programme On

Advances in Quantum Technologies

Quantum technologies have emerged as one of the most transformative areas of modern science and engineering, with applications spanning secure communication, advanced computing, precision sensing, and materials research. The Faculty Development Program (FDP) on “*Advances in Quantum Technologies*” aims to provide participants with a comprehensive understanding of the fundamental principles and recent developments in quantum science and their technological applications. This offline FDP is designed to enhance the knowledge base of faculty, research scholars, and professionals by bringing together experts from academia and research organisations to deliver in-depth lectures, discussions, and hands-on sessions. The program certainly will yield a new perspective on novel technology in science and engineering, which will be helpful for faculty and researchers in this premier field.

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: 17-11-2025

FDP Dates: November 24 - 29, 2025

Coordinators:

1. **Dr. Pandiyarajan T**
Assistant Professor and Head of Department
Department of Sciences
IIITDM Kurnool, A.P., India
2. **Dr. Putha Kishore**
Assistant Professor
Department of Sciences
IIITDM Kurnool, A.P., India
3. **Dr. Ashish S Parihar**
Assistant Professor
PDPM IIITDM Jabalpur

Faculty Development Programme On

Advances in Quantum Technologies

November 24 - 29, 2025 (Physical mode)

Jointly Organised by

Department of Sciences

Indian Institute of Information Technology

Design and Manufacturing, Kurnool –

518008, Andhra Pradesh, India



and

Electronics and ICT Academy

IIITDM Jabalpur



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



Faculty Development Programme On Advances in Quantum Technologies November 24 - 29, 2025 (Physical mode) Resource Persons

1. **Prof. B Karthikeyan**
Département of Physics
NIT-Trichy
2. **Dr. Aswath Babu**
Assistant Professor in Physics,
HoD, Department of Arts, Science and Design
IIIT Dharwad, Dharwad, Pin: 580009,
Karnataka.
3. **Dr. Ramachandrarao Yalla**
Assistant Professor
School of Physics
University of Hyderabad
Telangana-500046, India
4. **Dr. Chandra Chowdhury**
School of Interdisciplinary Studies (SIDiS)
IIT Madras, Chennai – 600036
5. **Dr. R. Muthuganesan**
Research Assistant Professor
SRM Institute of Science and Technology,
Kattankulathur, Chennai
6. **Dr. Murali D**
Assistant Professor
Department of Sciences
IIITDM Kurnool
7. **Dr. R Kabaleeshwaran**
Assistant Professor
Department of Computer Science
IIITDM Kurnool
8. **Dr. P V Prakash Madduri**
Assistant Professor
Department of Sciences
IIITDM Kurnool
9. **Dr. Putha Kishore**
Assistant Professor
Department of Sciences, IIITDM Kurnool

10. Dr. Pandiyarajan T
Assistant Professor
Department of Sciences, IIITDM Kurnool

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Department of Sciences
IIITDM Kurnool, A.P., India
3. **Dr. Ashish Singh Parihar**
Assistant Professor,
Department of Computer Science and
Engineering, PDPM IIITDM, Jabalpur

Course Contents

- Foundations of Quantum Technology
- Quantum Materials and Devices
- Quantum Computing: Algorithms and Applications
- Post-Quantum Cryptography
- Quantum Photonics
- Quantum Sensors and Their Role in Precision Measurement

Hands-On Sessions

- Demonstration of the generation of a random number using a Quantum Cryptography Demonstration Kit.
- Demonstration of "which path information" using a Quantum Eraser Demonstration Kit.
- Hands-on experience in the fabrication of Quantum Materials.

Programme Features

- Rigorous training for theoretical and practical knowledge on Quantum Technologies

- 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:
<https://forms.gle/h2PgAN4msfTvqA317>
- Registration fee: 1000/- INR
- Last Date for Registration: 17-11-2025

Online Payment Details

- Internet banking [Partner Institute]

Beneficiary Name	IIITDM KURNOOL
Bank Name	ICICI BANK
A/C No.	756701001024
IFSC Code	ICIC0007567

- QR Code:

