

**Online mode FDP at LNMIIT Jaipur on
The Quantum Mechanics Foundations
of Optoelectronics"**

Nov. 30– Dec. 11, 2026

Time: 1 PM– 5 PM (4 Hours per day)



**Ministry of Electronics and
Information Technology
Government of India**

**Chairman, EICT Academy &
Director MNIT Jaipur**

Prof. Narayana Prasad Padhy

Chief Investigator, EICT Academy

Prof. Vineet Sahula, ECE

Coordinator, EICT Academy

Dr. Satyasai Jagannath Nanda, ECE

Co- Chief Investigators, EICT Academy

Prof. Lava Bhargava, ECE

Dr. Pilli Emmanuel Shubhakar, CSE

Dr. Ravi Kumar Maddila, ECE

**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 specialised FDPs on emerging technologies/ niche areas/ specialised 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 Engg. and non-engineering colleges, polytechnics, ITIs, and PGT educators.

An intensive **10-day - 40-hour training program** is being organized in **Online mode at LNMIIT Jaipur** for Ph.D. scholars, postdoctoral researchers, faculty members, and working professionals from across India to learn about the fundamental concepts underpinning modern techniques, thereby enhancing their research capabilities and practical application skills in this rapidly evolving field. The program will run for **only four hours per day from 01:00 PM to 5:00 PM**.

Experts / Speakers –

Prof. Prasanta Kumar Datta (IIT KGP), Prof. Yann-Wen Lan (NTNU Taiwan), Prof. Prasanta Kumar Basu (University of Calcutta), Prof. Pilli Emmanuel Shubhakar (MNIT Jaipur), Prof. Amlan Chakrabarti (University of Calcutta), Dr. Michael Oehme (University of Stuttgart, Germany), Dr. Tiju Cherian John (BITS Pilani, Goa Campus), Dr. Jolly Xavier P (IIT Delhi), Dr. Ankit Kumar Pandey (Bennett University), Dr. Trupti Ranjan Lenka (NIT Silchar), Dr. Neel Kanth Kundu (IIT Delhi), Dr. Ashish Kumar Chowdhary (IIT Roorkee), and **other experts from IITs, NITs, foreign university, industrial & academia experts.**

Program Modules –

Module 1: Emerging semiconductor and optical materials–Silicon Photonics.
Module 2: Emerging semiconductors and photonic devices: HEMTs, HPTs, etc.
Module 3: Surface Plasmon Enhanced Photodetectors.
Module 4: Quantum photonic devices–single-photon avalanche diodes.
Module5: Quantum information technologies: revolutionizing computing, communication, and sensing through superposition and entanglement, alongside mathematical foundations of quantum error correction and stabilizer codes, and other related topics.

Principal Coordinators (MNIT Jaipur & LNMIIT Jaipur)

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Registration:

Registration is open to Ph.D. scholars, postdoctoral researchers, faculty members, and working professionals. Participants will be admitted on first-come first-served basis.

Register online at– <http://online.mnit.ac.in/eict/>

Certification Fee: Academic (Faculty / Students): Rs. 750/-

Working Professionals, Industry / Others: 1500/-

- (A) Fee once paid will not be refunded back.
- (B) The fee covers online participation in the programme, tutorial notes and examination, certification charges.
- (C) The organizers should receive the registration amount through online mode- NEFT/UPI, provided at the registration portal.



MNIT Jaipur one of the oldest NITs, the institute has a rich heritage of sixty years producing world class engineers, managers, architects and scientists. Ranked 43rd nationally in the NIRF ranking-2024 (Engineering), the institute offers learning opportunities for undergraduate, postgraduate students, and researchers in various domains. Having a lush green campus of over 317 acres within the heart of the pink city, close to Jaipur International Airport, the campus offers a safe and lively environment. A world class teaching infrastructure, state-of-art laboratories welcome you at the campus. The institute has a vision to impart education of international standards and conduct research at the cutting edge of technology.

The LNM Institute of Information Technology, Jaipur, established in 2002 as a joint venture between the Government of Rajasthan and the LUM Foundation, is a deemed-to-be- university. Accredited by NAAC with an 'A' grade and AICTE- approved engineering programs, it offers B.Tech., B.Tech.-M.Tech. (5-year), M.Tech., M.S. by Research, M.Sc., and Ph.D. programs. For more details, visit www.lnmiit.ac.in.