



Advanced Semiconductors & Packaging Technology

June 30- July 09, 2025



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

Prof. 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 engineering and non-engineering colleges, polytechnics, ITIs, and PGT educators.

An intensive 40 Hours Training Programme in online mode is being jointly organized by 7 EICT Academies for faculty and doctoral students of engineering and technological institutions. It is also open to working professionals from industry/organizations. It aims to equip educators and researchers with basic and advanced knowledge in the field of **Advanced Semiconductors & Packaging Technology**. Hands-on sessions and demos are planned towards advanced learning. This FDP will be conducted online starting from **30th June 2025 (4 – 8 PM daily)**. This training programme is in line with India Semiconductor Mission (ISM) and aims to equip an individual with knowledge & skills which are sufficient to contribute to ISM mission.

Experts/Speakers-

Prof. Sanjeev Manhas, IIT Roorkee

Dr. Pradeep Dixit, IIT Bombay

Programme Objectives/Modules:

Semiconductor packaging materials and technologies
Electrical and thermal design considerations
TCAD and ANSYS-based simulation methods
High-density substrates and interconnections
Reliability analysis and failure mechanisms
Advanced packaging techniques (3D, co-packaged optics)
Hands-on experiments and real-time problem solving

Principal Coordinators:

Dr. Deepak Bharti, Jt-PC 95302 03200 (M)	fdp.academy@mnit.ac.in	Dr. B V Phani, Jt-PC IIT Kanpur
Prof. Sanjeev Manhas, PC IIT Roorkee	Dr. Pushpa Raikwal, Jt-PC IIITDM Jabalpur	Dr. Bambam Kumar, Jt-PC NIT Patna

Registration:

Registration is open to faculty, working professionals, industry persons, doctoral, postgraduate and graduate students from India and rest of the world. Participants will be admitted on first-come first-served basis. Register online at- (<http://online.mnit.ac.in/eict/>)

Registration Fee:

Academia (faculty/Students): India/SAARC/Africa	Others: India/SAARC/Africa	Rest of the world
Rs. 500/-	Rs. 1000/-	US \$ 60/-

- (A) Fee once paid will not be refunded back.
- (B) The fee covers online participation in the programme, tutorial notes and examination, certification charges etc.
- (C) The registration amount may be paid through online mode- NEFT/UPI/Cards/SWIFT, provided at the registration portal.
- (D) Detailed schedule will be shared after receiving registration form.

→ For Queries, email us at fdp.academy@mnit.ac.in



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.