

Online Programme on VLSI-04D Synthesis & Optimization of VLSI Systems

Sep 07- Sep 18, 2026



Experts/Speakers-

Prof. Anshul Kumar	CSE, IIT Delhi
Prof. M. Balakrishnan	CSE, IIT Delhi
Prof. Preeti Ranjan Panda	CSE, IIT Delhi
Prof. Kolin Paul	CSE, IIT Delhi
Prof. Virendra Singh	IIT Bombay
Prof. Gaurav Trivedi	IIT Guwahati
Mr. Gaurav Jalan	Marvell Inc
Mr. Pramod Jain	Micron Hyderabad
Prof Lava Bhargava	MNIT Jaipur
Dr. Amit M. Joshi	MNIT Jaipur
Prof. Vineet Sahula	MNIT Jaipur
Speakers from IITs/NITs/IIITs/industries and eminent experts from other walks of life	

EICT Academy MNIT Jaipur

Chairman, EICT Academy & Director MNIT Jaipur Prof. Narayana Prasad Padhy
Chief Investigator: Prof. Vineet Sahula
Coordinator: Dr. Satyasai Jagannath Nanda
Co- Chief Investigators: Prof. Lava Bhargava, Prof. Pilli Emmanuel Shubhakar, Dr. Ravi Kumar Maddila

Objective (Electronics & ICT Academy-Phase II)

- 1) To conduct specialized FDPs for faculty/mentor training in line with the vision of MeitY in high-priority areas supporting the "Make in India" and the "Digital India" programs.
- 2) To promote synergy and collaboration with industry, academia, universities and other institutions of learning
- 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.

An intensive 40-Hour Training Programme in online mode is being organized for faculty, doctoral students of engineering and technological institutions. Working professionals from industry/organizations are also invited to attend. The training program is intended to provide a much-needed orientation towards algorithms for synthesis of VLSI systems. **The programme will be run during 8-10 AM & 5 - 7 PM on weekdays.**

Programme Modules:

Module 1: High-Level Synthesis (HLS) and Scheduling, Physical Design and Interconnect Optimization

Module 2: Combinational Logic Synthesis- Two-level, multi-level logic optimization

Module 3: Sequential Logic Synthesis- FSM optimization, state encoding, retiming

Module 4: Technology Mapping

Module 5: Physical design- Partitioning, floor planning, placement, Global routing, channel routing, Layout Compaction

Module 6: Memory Synthesis aspects: an introduction

Principal/Joint-Principal Coordinators

Dr. Amit M. Joshi, PC Prof. Vineet Sahula, Jt-PC MNIT Jaipur		Jt-PC NIT Warangal	Jt-PC IIITDM Jabalpur
Jt-PC, IIT Guwahati	Prof. B. V. Phani, Jt-PC IIT Kanpur	Jt-PC IIT Roorkee	Jt-PC NIT Panta

Spoke Coordinator

Dr.	954965XXXX (M)
-----	----------------

Registration is open to faculty, working professionals, industry persons, doctoral, postgraduate, and graduate students from India and the rest of the world. Participants will be admitted on a first-come, first-served basis.

Registration Fee

Mode of programme	India/SAARC/Africa		Rest of the world
	Academia (faculty/Students)	Others	
Online	Rs. 750/-	Rs. 1500/-	US \$ 60/-

(18% GST extra)

- Fee once paid will not be refunded back; however, can be adjusted for a future programme.
- The fee covers online participation in the programme, tutorial, notes and examination, certification charges etc.
- The registration amount may be paid through online mode- NEFT/UPI/Cards/SWIFT, provided at the registration portal.
- Detailed schedule will be shared after receiving registration form

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

→ For queries, contact us at fdp.academy@mnit.ac.in

EICT Academy MNIT Jaipur



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 42nd nationally in the NIRF ranking-2025 (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.