

**Five-day E- Short Term Course
On**

**AI-Driven VLSI Design and Signal
Processing**

May 27-31, 2024

Registration form

(Last date of registration: May 20, 2024)

Name:.....

Designation:.....

Organization:

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Gender: M..... F.....

Address of communication:

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Email:.....

Mobile:.....

Qualification:.....

Payment Mode: SBI Collect

(To pay through SBI collect, select Payment Category
“Workshop/STC/FDP/Conference”)

SBI Collect Receipt No

Date Amount

Link for e-registration through Google Form: -

<https://forms.gle/wLPWv7E1NoC2QAV56>

Date:

Place:

Signature of candidate

Signature & name of

Supervisor/HoD/Principal/Director

along with Institute Seal

Patron

Prof. H. M. Suryawanshi

Director, NIT Hamirpur

Chairman

Dr. Ashwani Kumar Rana

Head, Department of Electronics and
Communication Engineering

Convener

Dr. Ashwani Kumar Rana

Associate Professor, DoECE

Course Coordinator

Dr. Sandeep Kumar Singh

Er. Vinod Kumar

Treasurer

Dr. Sandeep Kumar Singh

Organizing Committee

All faculty members and staff of Electronics
and Communication Engineering
Department

Address for Correspondence

Dr. Sandeep Kumar Singh

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May 27-31, 2024

An Initiative of
National Institute of Technology Hamirpur,
Himachal Pradesh, India



Organized by

Department of Electronics and Communication
Engineering

National Institute of Technology Hamirpur

Hamirpur, Himachal Pradesh

Pin Code- 177 005, India

Website: www.nith.ac.in

Background

The proposed short term course emerges from the imperative to address the evolving landscape of technology integration in modern engineering. VLSI (Very Large Scale Integration), Communication, Signal Processing and Artificial Intelligence (AI) represent pivotal domains that, when harmoniously fused, usher in a new era of intelligent systems.

The program envisions creating a cohort of engineers adept at navigating the complexities of integrated smart systems. The benefits extend beyond individual skill development to shaping professionals who can contribute meaningfully to the ongoing technological revolution. As we stand at the intersection of VLSI, Communication, Signal Processing and AI, this program is a strategic initiative to prepare academicians and industry persons for the challenges and opportunities of the future.

Objective

The objective of this course is to impart necessary and practical knowledge VLSI, Communication, Signal Processing and Artificial Intelligence, and to develop skills required to build real-life projects.

Speakers

Faculty members of IITs, NITs, IIITs and other premier Institutions/Organizations of India.

Course Contents

- VLSI
- Artificial Intelligence
- Machine Learning and Deep Learning
- Intelligent Computing
- Low Power VLSI Design
- MEMS Design
- System-on-Chip (SoC) design
- Convolutional Neural Network

- AI in VLSI Design
- AI in Signal Processing
- Advanced Communication System
- MIMO-OFDM Systems
- Communication technologies for IoT
- Application of AI & ML in communication

Target Audience

Faculty members of Engineering Institutions/Universities, Research scholars and PG scholars pursuing research on the Advance electronics and communication areas, Participants from Industry/ R&D organization.

Number of Participants

Number of participants is limited to 50 seats. Application will be accepted on first-cum-first serve basis.

E-Certification

E-certificates will be provided to the participants, with at least 75% attendance, upon successful completion of the program.

Important Dates

Application in the prescribed format should reach the course coordinator by email on or before **May 20, 2024**.

Registration Fee Details

Participants	Amount (in Rs.)
Participants from Academia/R&D Labs	500/-
Students	200/-
Participants from Industries	1000/-

Bank Details for NEFT:

Bank & Branch Name: SBI, NIT Hamirpur (H.P.)
Account Name: Director NIT Hamirpur
Current Account No.: 11159548375
IFSC Code: SBIN0010367

Procedure of SBI collect:

1. Go to www.onlinesbi.com and select option State Bank Collect
2. Accept terms & conditions and proceed further
3. Select State of Corporate/Institute: Himachal Pradesh and Type of Corporate/Institute: Educational Institute
4. Select Educational Institute Name: NIT Hamirpur and click on Submit
5. Select Payment category Workshop STC FDP Conference and fill the details to proceed further

About the Institute

NIT, Hamirpur is an institute of National Importance. The Institute offers B. Tech, M. Tech and PhD programmes in various disciplines of Engineering, Humanities and Sciences. The Institute is functioning in a vast area of above 250 acres at Anu in Hamirpur district of Himachal Pradesh and is 4 Kms from main bus stand of Hamirpur on Mandi-Jalandhar National Highway (NH-70). The city of Hamirpur is well connected with the rest of the country by road. Nearest Railway Station: UNA (about 85 Km) and Nearest Airport: GAGGAL (Kangra) (about 85 Km)

About Department

Established in the year 1988, the Electronics & Communication Engineering (E&CE) Department NIT Hamirpur HP, has built an international reputation for excellence in teaching, research, and service. E&CED is making exhilarating progress in areas ranging from microelectronics, mobile communications to VLSI Design Automation. In labs and classrooms, students draw on the expertise and knowledge of our able faculty, integrating practical, hands-on research experience with challenging and interesting coursework. The team approach is very warm in the Department. A palpable excitement surrounds the Department, an enthusiasm pervades every classroom and lab, invigorating our students and spurring on our faculty to fresh innovations.