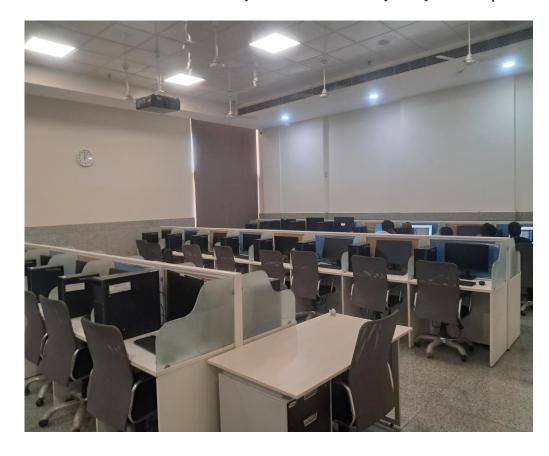# National Institute of Technology Delhi

राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

इलेक्ट्रानिक्स एवं संचार अभियांत्रिकी विभाग

Vision

Create an educational environment to prepare the students to meet the challenges of the modern electronics and communication industry through state of art technical knowledge and innovative approaches beneficial to society.

Mission

- To promote teaching and learning by engaging in innovative research and by offering state-of-the-art undergraduate, postgraduate, and doctoral programs.
- To cultivate an entrepreneurial environment and industry interaction, leading to the emergence of creators, innovators, and leaders.
- To promote co-curricular and extra-curricular activities for the overall personality development of the students.
- Building of responsible citizens through awareness and acceptance of ethical values.

एडवांसड वीएलएसआई लैब | ADVANCED VLSI LAB

"उत्साही छात्र वैज्ञानिक अन्वेषण में डूबे हुए, प्रयोगशाला के भीतर निर्बाध रूप से प्रयोग कर रहे हैं, जहां ज्ञान और जिज्ञासा मिलती है।"

"Enthusiastic students immersed in scientific exploration, seamlessly orchestrating experiments within the laboratory, where knowledge and curiosity converge."

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List of Instruments/ Equipment/ Software

Hardware

S. No.	Item Description	Qty	Model/ Version	Make
1	Desktop Computer System (PC) - 12th Gen Intel Core i7-12700, RAM- 16GB, HDD- 512GB SSD, GPU-4GB (NVIDIA)	40	Pro Tower 400 G9 with Monitor- P22 G5 FHD	HP
2	HP Workstation PCs - Processor- Xeon E5-1607/4GB/1TB/Win7with K2200 Graphics Card HP	5	Z440 workstation with Z24i 24-INCH IPS Monitor	HP
3	FPGA/DSP based Transmission Kit with Real Time Embedded Evaluation Board	2	MyRIO 1900	National Instruments
4	Basys 3 FPGA boards	10	Basys 3	Xilinx, Digilent
5	Analog Discovery kit	3	NA	Xilinx, Digilent
6	Pynq Z2 Board under Chipin C2S Project	6	NA	Xilinx, Digilent
7	Boolean Board under Chipin C2S Project	16	NA	Xilinx, Digilent
8	Urbana Board under Chipin C2S Project	2	NA	Xilinx, Digilent
9	Arty A7-100T Board under Chipin C2S Project	1	NA	Xilinx, Digilent
10	Kria KR-260 under Chipin C2S Project	1	NA	Xilinx, Digilent

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List of Instruments/ Equipment/ Software

Hardware

S. No.	Item Description	Qty	Model/ Version	Make
11	Kria KV (Video) under Chipin C2S Project	11	NA	Xilinx, Digilent
12	Pynq ZU under Chipin C2S Project	1	NA	Xilinx, Digilent
13	Zynq UltraSca le+ MPSoC ZCUI 04 under Chipin C2S Project	1	NA	Xilinx, Digilent

Software

S. No.	Item Description	Qty	Model/ Version	Make
14	Cadence University Standard bundle, 10 User License for 3 year	1	Latest	Cadence
15	Siemens - Mentor Graphics, HEP 1-Mentor -IC nanometer Design (Back end Design) HEP 2- Mentor-Design, Verification and Test (Front End Design) (3 Year Term) and ODTs for all technologies (One Year) (Software)	1	Latest	Siemens
16	Xilinx Vivado Software, 2017 version 25 Users Lic	1	2017	Xilinx
17	Xilinx Vivado Software, latest version 50 Users Lic	1	2023	Xilinx

धन्यवाद | **THANK YOU**

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Department of Electronics and Communication Engineering