



National Institute of Technology Delhi

राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली

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.

DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

इलेक्ट्रानिक्स एवं संचार अभियांत्रिकी विभाग



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NATIONAL INSTITUTE OF TECHNOLOGY DELHI

सिस्टम और सर्किट सिमुलेशन लैब | SYSTEM AND CIRCUIT SIMULATION LAB





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"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)	28	Pro Tower 400 G9 with Monitor- P22 G5 FHD	HP
2	Desktop Computer System (PC) -12th Gen Intel Core i7-12700, RAM- 8GB, 512GB SSD, HDD- 1TB HDD	15	Elite Tower 600 G9 with Monitor- P22h G5 FHD	HP
3	Desktop Computer System (PC), Core i7, RAM- 8GB, HDD- 1TB HDD	15	Compaq Elite 8300 small form factor with Monitor V192	HP
4	Desktop Computer System (PC), Core i7, RAM- 8GB, HDD- 1TB HDD	2	ELITE Desk 800 G1 SFF PC with Monitor HP V192	HP
5	Desktop Computer System (PC), Core i7, RAM- 8GB, HDD- 1TB HDD	21	406 G1 MT Business PC, Monitor- V192	HP
6	Desktop Computer System (PC), Core i7, RAM- 16 GB, HDD- 1TB HDD	10	ProDesk 600 G3 small form factor, Monitor- HP22"N220 TFT	HP

Hardware

S. No.	Item Description	Qty	Model/ Version	Make
7	VLSI Universal Board with sp3-CPLD-84-USB-JTAC	2	NA	Advance Technology
8	CPLD Development Board	2	NA	Advance Technology
9	8 Bit DAC Interface, 8 Bit ADC Interface	2	NA	Advance Technology
10	4X4 Keyboard Interface, 4X4 Keyboard Interface	2	NA	Advance Technology
11	VGA Interface, LED+7SEG Interface	2	NA	Advance Technology
12	GSM Interface, Bluetooth Interface, RFID Interface	2	NA	Advance Technology
13	FPGA Development Board - ATLYS Spartan 6 Development boards	4	Spartan 6	Xilinx
14	Galileo Board (Intel)	38	NA	Intel
15	Reconfigurable software computing Platform (software and Hardware) Software Defined Radio (SDR)	1	NA	Advance Technology



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S. No.	Item Description	Qty	Model/ Version	Make
16	USRP X310 Boards, SBX -120 USRP Daughterboard and accessories	4	NA	National Instruments
17	OCTOCLOCK-G CDA-2990 8 - Channel Clock	1	NA	National Instruments
18	LP0965 Log Periodic PCB Antenna and accessories	8	NA	National Instruments
19	Bio -Medical Instrumentation Trainer System for ECG/EMG Study Experimental Setup with Computer system, Processor-12th Gen, Intel core - i3-1200, 3.30 GHz, RAM - 8GB, HDD-1TB, Windows 11 Home	1	XPO-BOM with BM2), Slim Desktop PC S01-PF2369in with Monitor HPV20	TRINITY, HP
20	DSP STARTER KIT FOR TMS320 C6713	5	TMS320 C6713	Texas Instruments-USA/ Spectrum Digital

Hardware

S. No.	Item Description	Qty	Model/ Version	Make
21	Bio -Medical Instrumentation Trainer System for RRM, BIA Experimental Setup with Computer system, Processor-12th Gen, Intel core -i3-1200, 3.30 GHz, RAM - 8GB, HDD-1TB, Windows 11 Home	1	XPO-BOM with BM3), Slim Desktop PC S01-PF2369in with Monitor HPV20	TRINITY, HP
22	DSP STARTER KIT FOR TMS320 C6748	5	TMS320 C6748	Texas Instruments-USA/ Spectrum Digital
23	Bio -Medical Instrumentation Trainer System for Ultra Sound HRM + Audiometry Experimental Setup with Computer system, Processor-12th Gen, Intel core -i3-1200, 3.30 GHz, RAM - 8GB, HDD- 1TB, Windows 11 Home	1	XPO-BOM with BM4), Slim Desktop PC S01-PF2369in with Monitor HPV20	TRINITY, HP



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23	Bio -Medical Instrumentation Trainer System for Ultra Sound HRM + Audiometry Experimental Setup with Computer system, Processor-12th Gen, Intel core -i3-1200, 3.30 GHz, RAM - 8GB, HDD- 1TB, Windows 11 Home	1	XPO-BOM with BM4), Slim Desktop PC S01-PF2369in with Monitor HPV20	TRINITY, HP
24	30 MHz Arbitrary Function Generator	3	SDG1032X	Siglent
25	Spectrum Analyser 1 GHz	2	NA	Trinity



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S. No.	Item Description	Qty	Model/ Version	Make
26	Bio -Medical Instrumentation Trainer System for Ultra Sound RRM / BPM /HRM / Pulse Oximeter Experimental Setup with Computer system, Processor-12th Gen, Intel core -i3-1200, 3.30 GHz, RAM - 8GB, HDD-1TB, Windows 11 Home	1	XPO-BOM with BM1), Slim Desktop PC S01-PF2369in with Monitor HPV20	TRINITY, HP
27	Mobile wireless EEG Amplifier System with Post Processing Software - LiveAmp 32 channel system, LiveCap 32-channels with multitrodes, Starter Set for BrainCap MR, BrainVision Analyzer 2.0 professional	1	NA	Brain Products GmbH
28	Computer system compatible with Mobile wireless EEG system Processor-12th Gen, Intel core -i3-1200, 3.30 GHz, RAM - 8GB, HDD-1TB, Windows 11 Home	1	Slim Desktop PC S01-PF2789in, Monitor- HPV20	HP

Software

S. No.	Item Description	Qty	Model/ Version	Make
29	MATLAB Simulink and other associated tools (Software) Campus-Wide License - Unlimited Users	1	R2024a	MATLAB
30	NetSim Standard (R&.D)Version 13.3 or higher) : Component 1: Inter - Networks Component 4: Mobile ad-hoc Networks (MANETs) Component 5: Spftware Defined Networks (SON) Component 6: Internet of Things (IOT) Component 9: Vehicular Ad-hoc Networks (VANETs)	05 each	Version 13.3	NetSim
31	NetSim Academic Version 13.3 or higher)	30	Version 13.3	NetSim
32	OrCAD Designand Simulation Software (Latest Version, Perpetual License) - 20 Users	1	Latest	Cadence
33	Cisco Packet Tracer	1	Latest, Open Source	Cisco



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धन्यवाद | THANK YOU

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Department of Electronics and Communication Engineering

