


### 4.1.1 Major Equipment in the Laboratories 2023-24

#### Department of Civil Engineering 2023-24

S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	<b>Surveying lab/Structural Mechanics Lab</b>	Total Station SET-610	1
		Total Station Trimble	1
		Transit venire theodolite	10
		Auto Level	10
		Tilting Level	6
		Dumpy level	10
		Elastic Beam and Continuous beam Apparatus	1
		Three Hinged Arch Apparatus	1
		Two Hinged Arch Apparatus	1
		Laser Distance Meter	1
		Air Flow Meter	1
2	<b>Highway Engineering Lab</b>	Los angles Abrasion testing machine	1
		Marshall Test Apparatus ( Digital)	1
		CBR Apparatus	2
		Ductility testing machine	1
		Merlin Apparatus	1
		Core Cutter Apparatus for Pavement	1
3	<b>Concrete Lab</b>	Universal Testing Machine	1
		Compression Testing Machine capacity – 200ton Digital	1
		Compression Testing Machine	1
		Hobart Mixer MADE IN U.S.A./GERMANY	1
		Flexural Testing Machine capacity – 20ton	1
		Concrete Flow Table	1
		Concrete Test Hammer	2
		Ultrasonic Pulse Velocity Tester	1
		Cover Meter / Rebar	1
		Torsion Testing Machine	1
		Spring Tension meter	1
		Hardness Tester	1
Half Cell Potential Tester	1		
4	<b>Geotechnical Lab</b>	Triaxial Shear Test Apparatus	1

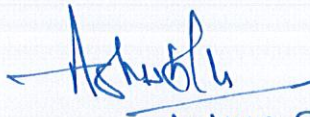
		Direct shear apparatus (Digital)	1
		Direct shear apparatus	1
		Consolidation apparatus	2
		DCPT	1
		Standard penetration test Apparatus	1
		Swell Test Apparatus	1
		Hydraulic Sample Extruder	1
		Heating Oven	2
		Data logger	1
		Pull Out Instruments for Soil Nails	1
		Hydraulic Jack With Load Cell(35 ton)	1
		Incinerator	1
		Pore Pressure Assembly	1
5	<b>Fluid Mechanics Lab</b>	Open Channel Flume	1
		Bernoulli's Theorem Apparatus	2
		Impact of Jet Apparatus	1
		Orifice meter Test Apparatus	1
		Venturimeter Test Apparatus	1
		Pipe friction Test Apparatus	1
		Apparatus for Minor losses in Pipe fittings	1
6	<b>Chemistry and Environmental Engineering Lab</b>	Spectrophotometer	1
		Multi parameter Apparatus(DO/BOD)	1
		Dust Sampler	1
		Digestion Apparatus	1
		Biodegradation of waste settlement analyzer	1
		Muffle Furnace	1
		Double Distillation Unit	1
		Autoclave	1
		BOD Incubator	1
		Laboratory stirrer	1
		Gas Sensor for CO2 & CH4	1
		Hydraulic Jack With Load Cell(5 ton)	1
		Earth Pressure Cell	1
		Depth Water Sampler	1
		Bomb Calorimeter	1
7	<b>Civil Software lab</b>	Autodesk Educational Suite 2022 (Unlimited)	1
		STAAD.PRO Connect Edition (Unlimited)	1
		GEO-5 (30 Users)	1
		ESTIMATOR 2.0 (unlimited)	1
		PRIMAVERA CONTRACTOR (05 Users)	1
		ANSYS Academic Advanced v11 (10 Users)	1



  
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		PLAXIS 2D SUITE Standalone (Single User)	1
		Nikon D5600 DSLR Camera	1
		E Tabs Ultimate V21	1
		Bentley Civil Bundle of Perpetual Network Based (Unlimited)	1
8	<b>Fluvial Hydraulics &amp; Research Lab</b>	Open Channel Flume	1
		Acoustic Doppler Velocimeter Nortek USA	1
		Conductivity meter	1
		COD Reactor	1
		Mixer Grinder	1
		Digital Temperature Meter	1
		Kjeltron Apparatus	1
		Incubator Inner 5.5	1
		Digital TDS Meter	1
		Digital Weighing Balance	1
		Digital Tuibidity Meter	1
		Digital Conductivity Meter	1
		Digital PH Meter	1
		Lenovo P500 Workstation with 64 GB RAM ,4 GB NVIDIA QUADRO K4200 Graphics Card, 2 TB Storage	2
9	<b>Workshop Practices Lab</b>	Lathe Machine	2
		Milling Machine	2
		Base Drilling Machine	1
		Power Hacksaw	1
		Welding Machine	1
		Radial Drilling Machine	1
10	<b>Engineering Graphics Lab</b>	Drawing table	35
		<b>Total</b>	<b>171</b>



  
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**Department of Biotechnology & Bioinformatics 2023-24**

S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	Human Genomics Lab (4th Floor) 4F12	Thermal Cycler ABS Veriti with Work Station.	1
		Centrifuge, Make- Eppendorf	1
		CO <sub>2</sub> incubator, Eppendorf Ltd. Model- 170S	1
		Deep Freezer (-20°C), Blue Star Pvt.	1
		Air Filtration Unit	1
		Nicon Binocular Inverted Research Microscope, Nicon Corporation. Model- TS-100 LED with accessories	1
		Biological Safety Cabinet, Telstar Tech-SLU. Model- Bio II Advance- 4	1
2	PTC Lab (4th Floor) 4F09	Analytical Balance, Citizen. Model- CTG-603	1
		Laminar Air Flow, Size- 3X2X2 ft. working table size	1
		Laminar Air Flow, Model- 1590B-48-24-24	1
		Shaker with Plateform. Adolf Kuhner	1
		pH Meter Benchtop, (Eutech)	1
		Refrigerator Samsung 665 Ltr. Model: RT65K7085BS	1
3	Proteomics Lab (4th Floor) 4F07	GE Protein Purification system biorad	1
		Electrophoresis system(2D) biorad	1
		UV -Visible Spectrophotometer thermo	1
		Electrophoresis system biorad	1
		Refrigerated Centrifuge, Eppendorf India Ltd.	1
		Conductivity meter	1
		Lp Logic System Bio-Rad	1
4	Equipment Room-1 (4th Floor) 4F06	Centrifuge, Remi. Model- C-85418. Capacity- 18 ml	2
		Centrifuge, Remi 2.4 X 1.5 ml, Angle head	3
		Centrifuge, Remi Company. Model- R-24 Remi	1
		Centrifuge, Remi Model- R-244 A Remi 8 X 15 ml	2
		Gel Dryer, Bio-Rad, Model- 503, 220/240 V	1
		Shaker with incubator. Adolf Kuhner	1
		Lyophilizer Martin Christ	1
		Hot Air Oven	2
		Water Bath, Macflow Eng.	4
		Centrifuge Refrigerator Eltek	2
Lyophizer Macflow	1		
5	Equipment Room-2 (4th Floor) 4F13	ATOMIC ABSORPTION SPECTROSCOPY PERKIN ELMER	1
		Sonicator, Sonics Pvt. Ltd.	1
		Gas Chromatography, Agilent Technology India Pvt. Ltd.	1
6	UG-1 Lab (4th Floor) 4F01	Stereo Microscope	1
		Deep freezer -20 cell frost	1
		Laminar Air Flow, Size- 3X2X2 ft. working table size	1
		Refrigerator, L.G., Capacity- 350 Ltr. Model- 365YMQG4	1
		Microwave, United Agencies	1
		Microscope Monocolour, Olympus	16
		Trinocular Research Microscope, Model- CH 20iTR	4
		Microscope, CH20i. Make- Olympus	7
		U.V. Transilluminator, Model- 107171	1
Spectrophotometer - Colorimeter	2		

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		Microwave Bajaj	1
		Peristaltic Pump(Rave+zenith)	9
		Autoclave (Small Size)	1
		pH controller zenith	2
		Magnetic stirrer zenith	5
		Circulatory water bath	1
14	Central Instrumentation Facility-2 (3rd Floor) 3F13	GC SCION 456 with 3 gas cylinder(N2,H2 AND ZERO AIR)	1
		Genetic analyzer	1
		PDS-100/HE SYSTEM with LAF & Vacuum pump	1
		Research Microscope(Fluorescence)Olympus	1
		HPLC, PDA autopurification system (Waters)	1
		Refrigerator, L.G. Capacity- 350 Ltr. Model- 365YMQG4	1
		Microscope MSZ-TR, Magnus zoom stereo trinocular (LED) Olympus/Magnus	1
		Ultrasonicator,Cap. Tank- 5 Ltrs	1
		Compact LC-MS System Nano-Advance UHPLC, Bruker	1
15	PG Lab (3rd Floor) 3F13	Oven, International Scientific	1
		Conductivity Meter	1
		Viscometer Brookfield	1
		Water both with Digital Temp.	1
		Freeze Videocon Table Top	1
		Digitak Ultrasonic Velocity Meter	1
		Tensio Meter Biolin Scientific	1
		U.V. Transilluminator, B.T.K. Bioscience	1
		Digital Weighing Balance (G-203, Citizen)	1
16	Genomics Technologies Lab (DBT Lab) (2nd Floor) 2F42	Deep freezer -80 C	2
		Cold chamber vista bio cell	1
		Thermal cycler ABS	3
		Radiometer	1
		Microwave	1
		Glass Door Refrigerator Cell Frost	1
		Centrifuge 5810 R	1
		Digital incubator with shaker RT	1
		Innova 44R Incubator with Shaker	1
		Autoclave, Alpha Innotech (Sanya). Model- MLS 3781	1
		Centrifuge, Make- Eppendorf Model- AC4100F	1
		Non-refrigerated centrifuge, BioNixs Model- CT-15E	1
		Cold Storage, Vista Biocell. Size- 11.4" X 5.6" X 11"	1
		Chef-Drill Chiller, Bio-Rad Sys, 220/240 V (set)	1
		Deep Freezer (-20°C), United Agencies	3
		Gel DOC, Alpha Innotech	1
		Versafluoro meter, Bio-Rad.	1
		S.Q. GEN GT/PPHV 38 X 50, 100/120 V, Bio-Rad.	1
		Double Door Freezer, Delhi. Model No.- FUG- 1000	1
		Gene Pulser, Bio-Rad	1
		Analytical Balance, Denver Model- TB-215 D	1
		RT-PCR, Macflow BioRad Engg.	1
		Table top refrigerated micro centrifuge, Make-Hitachi. Model. CT-15RE	1
		Nanodrop Spectrophotometer 2000°C	1
17	UG-4 (Biochem)	Analytical Balance, Capacity-10 mg-200 g	1



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**Department of Computer Science & Engineering and Information Technology  
2023-24**

S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	Computer Lab 3	HP 280 G2 MT ( 8GB RAM, 1TB HDD, Intel core i5@ 6500 GHZ, Windows 10 Pr. 64 bit)	43
		HP Pro Tower 280 G9 E ( 16GB RAM, 500GB SDD, Intel core i7@ 13700 2.10 GHZ, Windows 11 Pr. 64 bit)	17
		Dell Vostro core i5 7400, 8GB RAM, 1TB HDD, Windows 10 Pro 64 bit	1
		Dell Precision Tower ( 8GB RAM, 1TB HDD, Intel Xeon Processor @ 6500 GHZ, Windows 10 Pr. 64 bit)	1
		Logitech B525 HD Webcam, Logitech Wired Headphone (each)	2
2	Computer Lab 4	HP 280 G2 MT ( 8GB RAM, 1TB HDD, Intel core i5@ 6500 GHZ, Windows 10 Pr. 64 bit)	49
		Logitech B525 HD Webcam, Logitech Wired Headphone	1
3	Computer Lab 5	HP Pro Tower 400G9 PCI Desktop PC Processor - 12th Gen Intel Core i7,12700x20 Operating system - Ubuntu 22.04 LTS, 64 bit, 16GB RAM, 500GB SSD Graphics - Mesa Intel UHD graphics 770 (ADL-SGTI)	29
		Dell- Optiplex 5000 Desktop PC Processor - 12th Gen Core i7 Intel Core i7,12700 @2.10 GHz, Operating System - Windows 11 Pro, 64 bit, 16 GB RAM, 500GB SSD	16
		HP Pro Tower 280G9 Processor i7-13700, 13th gen, 16GB RAM, 500GB SSD Windows11 Pro 64 Bit	17
		Logitech B525 HD Webcam, Logitech Wired Headphone	2
4	Computer Lab 6	DELL VOSTRO 3669/INTEL CORE I5 @ 3.00 GHZ, 8GB RAM,1TB HDD	25
		HP Desktop-Core i5-6500 cpu @3.2 Ghz with 8GB RAM and 1 TB HDD, Windows 10 Pro 64 bit	20
		Dell Workstation-Intel Xeon @ 3.3 GHZ, 64 bit, 8 GB RAM, 1 TB Hard disk, DELL tower 3420, Windows 10 Pro 64 bit	1
		HP Pro Tower 280G9 Processor i7-13700, 13th gen, 16GB RAM, 500GB SSD Windows11 Pro 64 Bit	3
		Logitech B525 HD Webcam, Logitech Wired Headphone	1
		Color.Printer-2: Hp DeskJet GT 5810	1
5	Computer Lab 7	Dell 12th Gen Intel(R) Core(TM) i7-12700 2.10 GHz 500SDD , 16 GB RAM, Windows 11 Pro	34
		HP PRO TOWER 280G9 DESKTOP i7 13th gen 16gb RAM, 500GB SSD, WINDOWS 11 PRO	4
		HP PRO TOWER CORE I7 12th Gen, UHD 770, SSD-500GB, 16 GB RAM, Windows 11 pro 64 bit	5
		Logitech B525 HD Webcam, Logitech Wired Headphone	1
6	Computer Lab 8	Dell Workstation-Intel Xeon @ 3.3 GHZ, 64 bit, 8 GB RAM, 1 TB Hard disk, DELL tower 3420, Windows 10 Pro 64 bit	1
		HP PRO TOWER 280G9 DESKTOP i7 13th gen 16gb RAM, 500GB SSD, WINDOWS 11 PRO 64 BIT	7
		HP PRO DESK CORE I7 12th Gen, UHD 770, SSD-500GB, 16 GB RAM,	29

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		Windows 11 pro 64 bit	
		HP PRO TOWER CORE I7 12th Gen, UHD 770, SSD-500GB, 16 GB RAM, Windows 11 pro 64 bit	35
		Dell Optiplex 5080, i7 10th , 16 GB, HDD-1TB, 16GB RAM, WINDOWS11 PRO 64 BIT	1
		Toshiba 2309a Laser printer	1
		Logitech B525 HD Webcam, Logitech Wired Headphone	1
7	<b>Computer Lab 9</b>	HP PRO 440-238-G9 ALL IN ONE, i7 13th gen windows 11 pro 64 gb. 16gbRam, 500gb ssd	59
		ThinkCentre Core i3-2120 @3.30 GHZ,320 GB HDD, 2 GB RAM, Windows 7 64 bit	2
		Dell Vostro 3669 Intel Core i5-7400 CPU@3.0GHZ,1 TB HDD, 8GB RAM Windows 10 Pro 64 bit	1
		Dell Workstation Intel Xeon e3-1225 V5@3.30GHZ,1 TB HDD, 16GB RAM , Windows 10 Pro 64 bit	2
		Logitech B525 HD Webcam	3
		Logitech Wired Headphone	2
		Wacom Digitab	1
		Craetive Speakers A235	1
		Projctor- Canon LV7260	1
		Hp laserjet P1566	1
8	<b>Computer Lab 10</b>	Dell Vostro Desktop-intel® Core™ i5-7400 CPU@3.00GHz RAM 8 GB 64-bit OS Windows 10 Prof , 1 TB	80
		Dell Optiplex5080,Desktop-intel® Core™ i7-10700 CPU@2.90GHz 2.90GHz RAM 16 GB 64-bit OS Windows 10 Prof, 1TB	12
		HP 280 G4 MT 8GB RAM, i7 8th gen 1tb HDD, windows 10 pro 64 bit	1
		Logitech B525 HD Webcam	1
		Logitech Wired Headphone	1
9	<b>Computer Lab 11</b>	DELL PRECISION 3460 Desktop- intel core i7-12700CPU@2.10 GHZ 16GB RAM, 512 GB SSD , Windows 11 64 bit	30
		Logitech B525 HD Webcam	1
		Logitech Wired Headphone	1
10	<b>Computer Lab 12</b>	Desktop-Intel Core i5-7400 @ 3.0 GHZ, 64 bit, 1 TB Hard disk, 8GB RAM, Windows 10 Pro. 64 bit	11
		Desktop-intel® Core™ i5-6500 CPU @3.20GHz 3.20 GHz RAM 8GB 64 bit OS (60), 1TB	1
		<b>Total</b>	<b>560</b>



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## Department of Electronics and Communication Engineering 2023-24

S. No	Name of the Lab	Major equipment in the laboratories	Unit/s
1	Computer Lab 1	Processor intel® Core™ i3-3220 CPU @3.30GHz 3.30GHz RAM 4GB, Windows 10 64 bit , 270GB HDD	1
		Processor intel® Core™ i3-2120 CPU @3.30GHz 3.30GHz RAM 4GB, Windows 7, 64 bit , 450GB HDD	22
		Processor intel® Core™ i5-4460 CPU @3.30GHz 3.30GHz RAM 4GB, Windows 8.1 64 bit , 450GB HDD	9
		Processor intel® Core™ i5-7400 CPU@3.00GHz 3.00GHz RAM 8GB Windows 10 pro., 1 TB HDD	17
		HP Pro Tower 280 G9 E PCI Desktop PC (Processor intel® Core™ i7-13700 CPU) 512 SSD, 16GB RAM	10
		DELL PRECISION TOWER 3420 (WINDOWS10 PRO, 8GB RAM, Xeon Processor E1225 V5 @ 3.30 GHZ ), 1 TB HDD	1
		DIGILENT BASYS 2 100	7
		DIGILENT SPARTAN 6 FPGA DEVELOPMENT BOARD 324 PIN	1
		NI ELVIS /II	1
		NI MECHATRONIC SENSORS BOARD FOR ELVIS-II	1
		NI PROTOTYPING BOARD FOR ELVIS-II	1
		NI SMART CAMERA	1
		DIGILENT ZED BOARD (Vivado)	2
		NI LAB VIEW SOFTWARE (50 Users)	1
		XILINX VIVADO-SYSTEM -2018.1 64 bit (25 Users)	1
		MATLAB 2019 b (25 Users)	1
2	ECL-1	Digital CRO (GWINSTEK)	12
		Function Generator (GWINSTEK)	12
		Project Board, BB12V (VIJAYANTA)	12
		Power Supply (APLAB)	15
		Digital Multimeter (SANWA)	7
		Digital Multimeter (RISHAB)	10
		Current Source (Meco)	3
3	ECL-2	Digital Multimeter ( Sanwa-CD800a)	10
		Digital Multimeter (Rishab-14S)	8
		DSO-50MHZ (Gwinstek-GDS 1052U)	12
		Function Generator-3 MHZ (Gwinstek-SFG 1013)	12
		Multi output DC Power Supply (Scientific-PSD3304)	15
		Project Bread Board (Vijayanta-BB 12V)	15
		Dc Power Supply (Aplab-L3202)	1
		Digital IC Tester (Leaper- LP-01)	1
Current Source (Meco- 333)	2		



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4	ECL-3	Project Board, BB12V	15
		Power Supply, LQ 6324	15
		8051/251 Single board Computer/Evaluation board with ADP PPI Adapter; Model: ESA KEIL MCBx51	10
		DAC for ADC & Temp. Sensor Interface, Model: IF-DADC	10
		4-Digit, 7 Segment LED Display Interface, Model: IF-DIS	10
		Logic Controller Interface, Model: IF-LC	10
		Traffic Lights Interface, Model: IF-TRL	9
		4x4 Matrix Hex keyboard interface, Model: IF-HEXKBD	10
		Function Generator, ST 4060	2
		Function Generator, ST 4061	28
		Digital Multi-meter (Rish 14S)	13
		Project Board, ST 2610	10
		Digital IC Tester LP01	1
		5	ECL 4
Three Phase Auto Transformer, 3 $\phi$ , 8A (Voltex- 2 & Packard-2 )	4		
DC Ammeter, (0-1A) (Meco)	4		
DC Ammeter, (0-2A) (Meco)	8		
DC Ammeter, (0-5A) (Meco)	7		
DC Shunt Generator, 3 $\phi$ 0.5HP with AC Induction Motor 1H.P.(Drive) OR Coupled (Voltex)	2		
Induction Motor, 3 $\phi$ 1 HP (Voltex)	2		
Induction Motor 3 $\phi$ , 1/4hp (Voltex)	1		
Rheostat, 100 Ohm 5A (Siba)	7		
Rheostat, 1000 Ohm 2A (Siba)	8		
Single Phase Transformer, 1KVA (Packard)	2		
Single Phase Transformer, 1KVA (Voltex)	1		
Three Phase Transformer, 1KVA (Voltex)	1		
Single Phase Auto Transformer (Variac), 8A	4		
Synchronous Motor, 1HP	1		
Resistance Load Bank, 0-10A (Voltex-3 & Packard-2)	5		
Dc Power Supply (0-200V, 2A (Voltex-1 & Packard-2)	3		
Wattmeter (0-750/1500/3000W, 5/10A) (Meco)	10		
Digital Tachometer (Kusam Meco)	5		
Digital Multimeter ( 14S)	8		
Analog Multimeter (P-3)	5		
AC Ammeter (0-5-10A) (Meco)	10		
AC Voltmeter (0-300-600V) (Meco-10 & AE-2)	12		
DC Voltmeter (0-300V) (Yokins)	1		
Rheostat, 10 Ohm 10A (Voltex)	4		
Rheostat, 100 Ohm 5A (Voltex)	3		
Panels For Experiments (10"*12")	8		



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*20/11/2019*

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	DC Ammeter (0-5A) (Omega-65)	1
	DC Voltmeter (0-300)V (Meco)	8
	Single Phase Auto Transformer (Variac),4A (AE)	2
	Wattmeter (0-700W,150/300/600V,5/10A) (EPL)	2
	Wattmeter (0-500W,250V,2.5/5A) (AE)	1
	Wattmeter (0-300W,150/300/600V,2.5/5A)	2
	AC Ammeter (0-5-10A) (AE)	1
	DC Ammeter (0-1mA) (Meco)	10
	DC Power Supply (ST4077)	15
	CRO (Caddo 803D)	5
	Function Generator (ST 4063)	1
	Function Generator (Caddo 4063A)	1
	Function Generator (Caddo 4061)	6
	DC Power Supply (Aplab)	10
	Bread Board (Vijayanta)	10
	OutPut Power Meter (ST501)	1
	CRO (Caddo 803)	3
	DSO 50Mhz	9
	Function Generator 3Mhz	9
	DMM (Sanwa)	11
	Table lamp (Monex)	10
	Rheostat, 1000 Ohm 0.5A (Labin)	10
	Decade Inductance Box (Labin)	10
	Variable DC Power Supply 0-250V (Packard)	10
	Variac (Auto Transformer) 8A, 0-560V (Dimmerstat)	10
	Milli amperes 0-500mA (DC Ammeter) (AE)	20
	Milli amperes 0-100mA (DC Ammeter) (Meco-V)	6
	Voltage Commutated Thyristorised Chopper (OMEGA , PET-430)	1
	Study of SCR and A.C. Pahse Controler (OMEGA, PET-402)	1
	Zigbee Modules 100M Range	10
	Zigbee Modules Adapter	5
	Metal Gear Servo Motor	5
	Sharp GP2y0A21ykoF Infrared range Sensor	10
	GPS Receiver	2
	Fire Bird Robot	4
	Spart V Robot Adapter	5
	Fire Bird Adapter	3
	Fire Bird Adapter Card	5
	Servo Motor Based Griper Kit	2
	Gyroscope Accelerometer and GPS Interfacing Module	2



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		Desktop computer Dell with Intel core i5 processor, 8GB RAM, 1TB HDD and 19-inch Monitor	3
6	ECL-5	Distortion Meter (HM5027)	5
		1GHz Frequency Counter (HM5021)	2
		Project Board	17
		Digital IC Tester ( LP-01)	1
		Digital Multi-meter ( Rish14s)	10
		Analog IC Tester	1
		TDM Pulse Amplitude Modulation/Demodulation Trainer (ST2102)	1
		TDM Pulse Code Modulation Transmitter Trainer ( ST2103)	1
		TDM Pulse Code Modulation Receiver Trainer ( ST2104)	1
		Delta, Adaptive Delta and Delta Sigma Modulation/ Demodulation Trainer ( ST2105)	1
		Data Formatting and Carrier Modulation/Transmitter Trainer ( ST2106)	1
		Data Reformatting and Carrier Demodulation Receiver Trainer ( ST2107)	1
		Digital CRO (GDS-1052U)	12
		Function Generator (SFG1013)	27
		Power Supply (PSD3304)	15
		Phase Locked Loop ( Omega)	1
Phase Shift Keying ( Omega)	1		
7	ECL 6	Dell Computer Systems Modal No. VOSTRO 3669 Core i5, 7th Generation, 3.00 GHz with 8GB RAM and 1 TB HDD (Windows 10 professional)	12
		Ansys Academic HFSS Software	01 User
		Digital Storage Oscilloscope 60Mhz(TDS2002)	7
		Digital Storage Oscilloscope 100Mhz (GDS-1102U)	3
		Agilent Digital Storage Oscilloscope (DSO3102A)	1
		Agilent CSA Spectrum Analyzer (N1996A)	1
		Agilent RF Network Analyzer (8714ET)	1
		Bloom with DSP CDs	15
		Bluetooth Comm. Training Systems (BT2001)	1
		Spectrum Analyzer (SA3005)	1
		Function Generator 15Mhz (DG1012)	6
		Function pulse Generator (ST4064)	1
		Gunn Power Supply (GS610)	3
		VSWR Meter (Sico)	5
		VSWR Meter (NV103A)	6
VSWR Meter (ST103)	3		
LCR-Q- Meter (4910)	1		



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		LCR Meter (LCR-814)	1
		Klystron Power Supply (NV102)	5
		Klystron Power Supply (ST102)	3
		Microwave Power Meter (NV105)	1
		LC Transmission Line Kit (ETB-10)	2
		Wave Guide Adapter (NV225)	4
		Phase Shifter (NV238)	4
		Optical Fiber Trainer (Benchmark)	4
		Project board (ST2610)	7
		Writing Tab (Wacom)	1
		Mitsubishi Electric FA Learning Setups (Training Kits)	2
		Base rack - 8 slots	1
		Power supply for PLC	1
		PLC CPU with 40K Steps memory	1
		2 GB memory card	1
		Simple Motion Module for 4 axis	1
		Dual network module: Ethernet & CC-Link IE	1
		Digital input module with 32 I/P, sink /source and high speed	1
		Digital output module, Transistor output Source type, v 32 points	1
		4 channel Analog Output Module	1
		4 channel Analog Input, Module	1
		Servo amplifier for three axis, 400W each	1
		Encoder cable for servo motor	3
		Power cable for servo motor	3
		Battery Case	1
		Battery for servo amplifier	2
		Battery Cable	1
		SSCNET cable	1
		Servo motor 400 W	3
		A800 series inverter 400W	1
		CC-Link IE Field Card for Inverter	1
		8.4" Screen HMI – GT200 series	1
		Connector	3
		I/O simulator and X-Y table setup & Induction Motor setup	1
		iQ Works Programming Software	1
8	ECL-7	Micro Controller Programmer	2
		8085 Microprocessor Tr. Kit	9
		8086 Advance Microprocessor tr. Kit	9
		8031 Micro Controller Kit	5
		8051 Micro Controller Kit	4
		Power Supply With Cable	30




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Sd/-  
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		8255 Study Card	2
		8279 Study Card	1
		8253 Study Card	1
		8251 Study Card	1
		8257 Study Card	1
		8259 Study Card	1
		8212 Study Card	1
		Buffer, Latch Decoder Card	1
		8 Channel ADC Module	1
		Computer Systems	1
9	<b>ECL-8</b>	Dell Computer Systems Modal No. VOSTRO 3669 Core i5, 7th Generation, 3.00 GHz with 8GB RAM and 1 TB HDD (Windows 10 professional)	14
		Wicomm-T (IF & Base Band)	2
		Writing Pad (Wacomone Creative Pen Display)	1
		2.1 Multimedia Speaker F&D A111-B008MW0GH6	1
		Drone ( Assembled)	4
		Cadence VLSI Design Software	<b>10 user</b>
10	<b>ECL-9</b>	Dell Computer Systems Core i5-6500 cup @3.00 GHz with 8GB RAM and 1 TB HDD (Windows 10 professional)	14
		<b>Total</b>	<b>1091</b>




  
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Sumant  
 20/11/24

## Department of Physics and Materials Science 2023-24

S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	Physics Lab 1	BIOT Savart Law	2
		Di-Electric Set	4
		"e/m" set	4
		Fresnel's Bi-Prism	2
		Four Probe set	4
		Fiber optics kit	3
		Diffraction Grating with Spectrometer	2
		Hall effect set	3
		Hysteresis Loop Tracer	4
		Electromagnet	2
		Magnetostriction Set	2
		Newton's ring set	2
		Planck's constant set	3
		Specific Rotation set	2
		Dispersive power of prism (Spectrometer)	3
		Solar Energy Trainer	2
		Laser diode	2
		Power Supply(5amp;30V)	4
		Gauss Meter	2
		He-Ne laser	1
		Table Lamp	17
Tool Kit	1		
EMF Setup	1		
Spectrometer	2		
Bi-prism Assembly	2		
2	Physics Lab 2	Fresnel s Bi-prism set up	2
		Magnetic Susceptibility set up	1
		Newton' s Ring set up	2
		Planck' s constant set up	2
		Spectrometer for Dispersive power of prism set up	2
		Spectrometer for transmission Grating set up	2
		Specific rotation set up	2
		Viscosity set up	2
		Table Lamp	15
		E/m Thomson set up	1
		Four probe set up	1
		Digital gauss meter with probe	2
		Optical fiber set up	2



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		BH- Curve set up	2
		Hall Effect Set-up	1
		Constant Current Power Supply with Hall probe	1
3	<b>Research (CVD Lab)</b>	Furnace (TH E F)	1
		Argon Gas Cylinder	1
		Electromagnet	1
		Double stage 50L.P.M Vacuum pump	1
		Single stage 50Lp.m Vacuum pump	1
		Digital High Voltage Power Supply	1
		Magnetic Stirrer Hot Plate	1
		Analog pirani Gauge	1
		Valve for line	1
		250LPM vacuum pump	1
		HP Laser jet Printer	1
		High temp 4probe setup	1
		Argon Gas Cylinder	1
		Argon gas regulator	1
		Cylinder regulator	2
		Power supply	2
		Furnace	1
		HE NE Leaser	2
		E/M by Thomson	2
4	<b>Material Science Lab</b>	Vacuum coating unit	1
		Electron Beam Gun power supply	1
		Rotary Flask shaker	1
		L.G Refrigartor	1
		Magnetic stirrer with hot plate(2ltr)	1
		Magnetic stirrer (2ltr)	1
		Magnetic stirrer (2ltr)	1
		Ultra sonic cleaner	1
		Hydrogen gas cylinder	1
5	<b>Characterizations Lab</b>	Pico Ammeter	1
		UV spectrophotometer	1
		Air STM	1
		Digital Mill voltmeter	1
		Digital Multimeter	1
		Soldering iron with stand	1
		Mass flow controller(0-10,sccm)	1
		Mass flow controller(0-1,sipm)	1
		Gas mixing chamber & sensing	1
		Argon gas meter	1



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		LS-55 photoluminescence spectrophotometer	1
		Hydrogen gas cylinder	2
		Nitrogen gas cylinder	1
		Magnetic stirrer(1mlh)	1
		Systronic signal pulse generator	2
		Carbon monoxide cylinder	1
		NO <sub>2</sub> cylinder	1
		CH <sub>4</sub> cylinder	1
		Table Lamp	1
6	<b>2-D Lab</b>	BMT Hand tool kit	1
		Ice Bath	1
		Regulator	3
		Nitrogen gas cylinder	1
		Hydrogen gas cylinder	1
		Kip's Apparatus (250mL Glass )	1
		Kip's Apparatus(250mL Glass)	1
		Mass flow controller 0-50SCCM	1
		Mass flow controller 0-SLPM	1
		CVD System pc interface with Datalog	1
		Temperature controller	1
		Cylinder regulator inlet	1
		Hydrothermal reactor	1
		KBR Die set	1
		Zero Air cylinder	1
		Desiccator 250ml	2
7	<b>Synthesis Lab</b>	Hydrogen Thermal reactor	2
		Magnetic stirrer(2Ltr)	5
		Ph Meter	1
		Hot plate	2
		Hot air oven	1
		Clean work bench (Laminar)	1
		Electronic balance	1
		Spin coating unit	1
		Magnetic stirrer(5Ltr)	1
		Centrifuge machine	1
		Computer set	1
		Programmable high temp.furnace	1
		Digital magnetic stirrer	1
		Double Distillation unit	1
		Rota menter	1
8	<b>Electrical</b>	High temp. two probe setup	1



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	<b>Characterization Lab</b>	Hydraulic press	1
		Electrical balance	1
		Digital D.C microvoltmeter	1
		Digital pico Ammeter	1
		Vacuum pump	1
		High power DC power supply	1
		Light Lux Meter	1
		Dielectric measurement setup	1
		Constant Current Source	1
		Multimeter Digital	1
		Digital pirani gauge	1
9		<b>Antenna Lab</b>	VNA
	PCB prototype machine		1
		<b>Total</b>	<b>231</b>

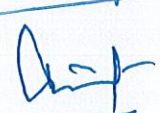


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## Department of Humanities and Social Sciences 2023-24

S. No.	Name of the Lab	Major equipment in the laboratories	Unit/s
1	LANGUAGE LAB (HSS)	<b>Hardware:</b>	
		Dell Precision Tower 3420 Workstation Intel Xeon CPU E3-1225 V5@ 3.3 GHZ, 64 bit, RAM-8 GB, HDD 1TB, Windows 10	1
		HP 280 G2 MT Business PC Intel Core i5-6500CPU @ 3.2 GHZ, 64 bit, RAM-8GB HDD-1TB, Windows 10	5
		Dell-D19M-Vostro Intel Core i5-7400-7thGen@3.0GHZ, 64bit, RAM 8GB, HDD-1TB, Windows 10 Pro	25
		Lenovo Desktop PC Intel (R) Core (TM) i3 2100 CPU @ 3.10 GHZ RAM 2GB System type 32 bit operating system	2
		Headphones Logitech (H-111)	6
		Headphones Logitech (H-110)	27
		Webcam Logitech(C615)	1
		<b>Software:</b>	
		Practical Writing (CLARITY ENGLISH)	33
		Tense Buster (CLARITY ENGLISH)	33
		Clarity S.NET	30
		SPSS (24)	3
		Microsoft office	33
		Adobe reader 9.0	33
	<b>Total</b>	<b>232</b>	

No change  
  
23/10/2024



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