

List of Major Equipment / Facilities in each Laboratory / Workshop

Department of Biotechnology

S.No.	Name of the Laboratory	List of Major equipment
1	Biochemistry lab	Autoclave, Calorimeters, Chemical storage refrigerators (220L), Distillation apparatus, Digital weighing Balances, Laminar Air flow (vertical), Incubator (Parakh), Magnetic stirrer, Digital pH meters with ATC (Elico), Single pan Balance, Cyclomixer, Water bath, Water baths with Thermostat (12-Holes).
2	Bioinformatics lab	Desk top computers without DVD, Laser jet Printer, canon mf 244 dw printer, UPS 10KV
3	Bioprocess Lab	Air lift Bioreactor, Remi Orbital shaking incubator, Orbital shaking incubator, Calorimeters, Chemostat (Air lift Bioreactor), Ultra Precision Pressure Sensor (Air lift), Fermentor (3 lit), Hot air oven, Heating Mantle (2L), Magnetic stirrers, Magnetic stirrer with hot plate (1L), Magnetic stirrer with hot plate (2L), Digital pH meter with ATC (Elico), Packed bed reactor, Visible spectrometer, Water baths with Thermostat (12-Holes), Balance (Digital), Digital weighing Balance,
4	Downstream stream Processing Lab	Orbital shaking incubator, Digital pH meter with ATC (Elico), Balance (Digital), Digital weighing Balance, Calorimeters, Heating Mantle (2L), Homogenizers with serrated pestles, pH meter, Visible spectrometer, Heating Mantle (1L)
5	Genetic Engineering Lab	Air curtains, Gel-Doc (Bio- rad), Balance (Digital-Sartorius), Digital weighing Balance, Bench top cooler tubs, Mini centrifuge, Calorimeter, Dry bath, Electrophoresis units, Hot air oven, BOD incubator (Remi), Incubators (Sisco), Micro oven, Magnetic stirrer, Micro centrifuge with digital timer, pH meter, PCR, Plat farm Rocker with electronic timer, Refrigerator, Refrigerated high speed centrifuge, Remi quick freezer, Bio Spectrophotometer (UV), UV Cabinet, UV Transilluminator, Vertex mixer, Water bath with Thermostat (12-Holes), White light Transilluminator.
6	Enzyme Technology Lab	Remi centrifuge (3-Rotors), Calorimeters, Heating Mantle (2L), pH meter, Digital pH meter with ATC, Digital weighing Balance,

7	Instrumentation Lab	Remi centrifuge (3-Rotors), Calorimeters, Digital conductivity meters, Distillation apparatus (glass), Digital Spectrometer, Electrophoresis unit, Paper Electrophoresis system (vertical), Flame photometer, Hot air oven, Heating Mantles (1L), Monopan Balance, Digital Nephelometer, pH meters, Digital pH meters with ATC, Refrigerator, Spectro colorimeter with 8 filters (Systronics), Water bath, Water baths with Thermostat(12-Holes), Digital weighing Balances.
8	Immunology Lab	Calorimeters, Chemical storage refrigerators (220L), Digital weighing Balance, Hot plate, Immuno-electrophoresis system, Magnetic stirrer with hot plate (1L), Refrigerator (L.G), Vertical mini-Gel System, Water bath, Serological water bath.
9	Microbiology Lab	Air curtains, Autoclave, Calorimeters, Compound Microscopes, Colony counters Digital, Digital weighing Balances, Hot air oven, Heating Mantle (2L), Heating Mantle (1L), Incubators (Parakh), Laminar Air flow (Horizontal), Magnetic stirrer, Biological Compound Microscopes, Binocular Compound Light Microscopes, Orbital shaking incubator, Digital pH meter with ATC, Refrigerator (LG 320L), Water bath with Thermostat (12-Holes)
10	Tissue Culture Lab	Autoclave, Autoclave with SS basket, Autoclave Portable, Air curtains, Bench top Orbital shaking Incubator, Cooling incubator, Double Distillation Unit(4lit), Distillation Unit, Digital weighing Balance, Hot air oven, Heating Mantles (250 ml), Hot plate, Laminar Air flow (Horizontal), Microscope Inverted, Magnetic stirrer with hot plate (2L), Digital pH meters with ATC (Elico), Refrigerator (LG 320L),
11	R& D Lab	Waterbath with Thermostat(12-Holes), Rotary Shaker (Digital), Hot air oven, Incubator, Double Beam UV -VIS Spectrophotometer FGSL-220, Binocular Compound Light Microscope, Freezer (-20°C), Digital Balance, Colorimeter, Laminar Air Flow, Fluidized Bed Reactor, pH Meter.

Department of Chemical Engineering

1. CHEMICAL REACTION ENGINEERING LABORATORY

S. No.	Name of Equipment
1.	Adiabatic Batch Reactor
2.	Temperature Effects In Batch Reactor
3.	Continuous Stirred Tank Reactor
4.	Plug Flow Reactor
5.	Packed Bed reactor
6.	Residence time distribution (RTD) in Tubular Reactor
7.	Variable speed mixer

2. PROCESS DYNAMICS AND CONTROL LABORATORY

S. No.	Name of Equipment
1.	First-Order and Second-Order System
2.	Level Control Trainer
3.	Temperature Control Trainer
4.	Flow Control Trainer
5.	Pressure Control Trainer
6.	Interacting and Non-Interacting Systems

3. MASS TRANSFER OPERATIONS

S. No.	Name of Equipment
1.	Batch Dryer
2.	Gas Diffusivity equipment
3.	Simple Distillation
4.	Steam distillation
5.	Packed Column
6.	Vapor Liquid Equilibrium

4. MECHANICAL UNIT OPERATIONS

S. No.	Name of Equipment
1.	Sieve Analysis
2.	Ball Mill
3.	Pulveriser
4.	Vibrating Screen
5.	Jaw Crusher
6.	Plate and Frame Filtration
7.	Roll crusher
8.	Drop Weight Crusher
9.	Cyclone Separator

5. PROCESS HEAT TRANSFER LABORATORY

S. No.	Name of Equipment
1.	Stefan Boltzmann Apparatus
2.	Emissivity Measurement Apparatus
3.	Composite Wall
4.	Lagged Pipe Apparatus
5.	Pin-Fin Apparatus
6.	Heat Exchanger
7.	Critical Heat Flux Apparatus
8.	Thermal Conductivity of Insulating Powder

6. FLUID MECHANICS LAB

S. No.	Name of Equipment
1.	Orifice meter and Venturi meter
2.	Notches (V, Rectangular and Trapezoidal types)
3.	Major Losses and Minor Losses (Sudden Enlargement & Sudden Contraction)
4.	Mouthpiece under Constant Head & Variable Head
5.	Bernoulli's theorem

7. TECHNOLOGY OF SURFACE COATINGS LAB

S. No.	Name of Equipment
1.	Scratch Hardness Tester
2.	Paint Film Thickness Tester
3.	Flexibility Test
4.	Paint Gloss Tester
5.	Impact Resistance Tester

Department of Civil Engineering

Name of the Laboratory	Lab / Major Equipments
FLUID MECHANICS LAB	Pelton Wheel, francis turbine, kaplan turbine, Reciprocating pump, Centrifugal Pump, Open Channel
ENVIRONMENTAL ENGG. LAB	OVEN, COD Digester, BOD incubator, digital folcculator, Air Volume sample, Color rimeter
ENGG. GEOLOGY LAB	Resistivity Meter
CONCRETE LAB	Vibration table, Pan Mixer, Rebound Hammer, 300Tonne Compression Testing, UPV tester, profomeder
COMPUTER CENTRE 2	HP laser Jet 1020 Printer, 10KVA UPS - 30min backup, Abacus, Midas Civil, ANSYS Softwares, Desktop HP3330i7 - (9 Nos), HP3330i5 - (12 Nos) - 1TB -HDD-8GB DDR4 RAM
TRANSPORTATION ENGG.	Marshal Stability Apparatus, CBR, Bitumen Extractor
COMPUTER CENTRE (UG)	Bentley STAAD and 20 modules , Visual Mod flow 5.2, Arc GIS software, DELL i7 Model, HP laser, 1TB - HDD, 8GB DDR4 RAM (47 Nos.)
SURVEY LAB	Digital Theodolite(s) Auto Level(s) Vernier Theodolite (20 Sec.), DGPS, Total Station (Model R1505N)
STRENGTH OF MATERIALS LAB	1000kN Digital Universal Testing Machine , 100T Universal Testing Machine, Torsion, 5 tone capacity Tension machine , Vickers hardness test, Brinell Hardness tesing machine - 3000kg, Rockwell Hardness test, torsion testing machine, impact machine(charpy) and IZod), Fatigue testing machine
SOIL MECHANICS LAB	Automatic Compaction, Standard Penetration test, Plate Load Test(Field), Electromagnetic sieve shakar
MODEL TESTING LAB	Shake Table, impulse hammer

DEPARTMENT OF CSE

List of Major Equipment / Facilities in each Laboratory / Workshop

Sl.No.	Laboratory/ Office / Staff	Description of Equipment	Qty
1	LAB-I	HP Elite 7100 MT, Intel core i3 550 @ 3.2GHz, Intel board, 2 GB RAM, 320 GB HDD, 18.5" TFT Monitor, Keyboard and mouse	30
		30 KVA UPS Online with ½ hour backup Sharing with lab2 & lab3	1
		3.5 Ton Cassette AC	2
		Cisco SG-300, 48-port Manageable switch	1
		HP Laser jet 1020 Plus	1
		6-U Communication rack	1
		LCD Projector with Screen	1
2	LAB-II	HP 400-G Desktop Intel Core i7/4570 Processor, 8 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and mouse	30
		30 KVA UPS Online with ½ hour backup Sharing with lab1 & lab3	1
		3.5 Ton Cassette AC	2
		Cisco SG-300, 48-port Manageable switch	1
		HP Laser jet 1020 Plus	1
		6-U Communication rack	1
		LCD Projector with Screen	1
3	LAB - III	HP 400-G Desktop Intel Core i5/4570 Processor, 8 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and mouse	28
		HP Elite 7100 MT, Intel core i3 550 @ 3.2GHz, Intel board, 2 GB RAM, 320 GB HDD, 18.5" TFT Monitor, Keyboard and mouse	2
		30 KVA UPS Online with ½ hour backup Sharing with lab1 & lab2	1
		3.5 Ton Cassette AC	2
		Cisco SG-300, 48-port Manageable switch	1
		HP Laser jet 1020 Plus	1
		6-U Communication rack	1
		LCD Projector with Screen	1
4	LAB - IV	Dell Optiplex 3060 Core i7 Processor, 32 GB Ram, 1 TB HDD, 20" LCD Monitor, Keyboard, Mouse	30
		HP Intel Core i7, 16 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and Monitor.	10

		30 KVA UPS Online with ½ hour backup Sharing with lab5 & lab6	1
		3.5 Ton Cassette AC	2
		24 Port CISCO Manageable Switch	1
		24 Port D-Link Switch	1
		HP Laser 1020Plus	1
		6 U Wall Mounted Rack	1
		LCD Projector with Screen	1
5	LAB - V	HP 3330 Desktop, Intel Core i7, 8 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and Monitor, Graphic Card.	30
		30 KVA UPS Online with ½ hour backup Sharing with lab4 & lab6	1
		Split Air Conditioners	2
		24 Port 10/100 Mbps D-link switches	2
		HP Laser jet 1020 Plus	1
		6 U Wall Mounted Rack	1
		LCD Projector with Screen	1
6	LAB-VI	HP 3330 Desktop, Intel Core i7, 8 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and Monitor,	29
		Dell Optiplex 3050 MT Intel Core i7-7700- 7th gen processor, 16 GB RAM, 1 TB HDD, 18.5 LED Monitor, Keyboard, Mouse	7
		30 KVA UPS Online with ½ hour backup Sharing with lab4 & lab5	1
		Window Air Conditioners	2
		24 Port 10/100 Mbps D-link switches	2
		HP Laser jet 1020 Plus	1
		6 U Wall Mounted Rack	1
		LCD Projector with Screen	1
7	LAB-VII	Dell Optiplex 3050 MT Intel Core i7-7700- 7th gen processor, 16 GB RAM, 1 TB HDD, 18.5 LED Monitor, Keyboard, Mouse	36
		30 KVA UPS Online with ½ hour backup Sharing with lab8 & lab9	1
		Window Air Conditioners	2
		24 Port 10/100 Mbps D-link switches	2
		HP Laser jet 1020 Plus	1
		6 U Wall Mounted Rack	1
		LCD Projector with Screen	1

8	LAB-VIII	Dell Optiplex 3060 MT Intel Core i7 processor, 8 GB RAM, 1 TB HDD, 20" LED Monitor, Keyboard, Mouse	63
		30 KVA UPS Online with ½ hour backup Sharing with lab7 & lab9	1
		Split Air Conditioners	3
		Window Air Conditioners	1
		HP Laser jet 1020 Plus	1
		24 Port 10/100 Mbps D-link switches	2
		16 Port 10/100 Mbps D-link switches	2
		12 U Wall Mounted Rack	1
		6 U Wall Mounted Rack	1
		LCD Projector with Screen	1
9	LAB-IX	Dell Optiplex 3060 MT Intel Core i7 processor, 16 GB RAM, 1 TB HDD, 20" LED Monitor, Keyboard, Mouse	25
		Dell Intel core i5, 8 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and mouse	1
		30 KVA UPS Online with ½ hour backup Sharing with lab7 & lab8	1
		24 Port 10/100 Mbps D-link switches	2
		6U Wall Mounted Rack	1
		LCD Projector with Screen	1
10	LAB-X (A Block- 003)	HP Pro 3330 MT Desktop Intel Core i5, 8 GB RAM, 1TB HDD, 20" LED Monitor, Keyboard and Mouse.	59
		HP Compaq P IV, 2 GB DDR-2 RAM, 320 GB HDD, 17" TFT Monitor	5
		20 KVA UPS Online with ½ hour backup Sharing with lab7 & lab8	1
		Window Air Conditioners	3
		24 Port 10/100 Mbps D-link switchess	3
		16 Port 10/100 Mbps switchess D-Link.	2
		HP Laser jet 1020 Plus	1
		6 U Wall Mounted Rack	1
		LCD Projector with Screen	1
11	SERVER ROOM	Vmware Hypervisor-I (Bigbluebutton, Oracle 11g, Digihunt and Diginance Servers): HP ProLiant DL 380 Gen 10 Rack Server, Intel Xeon – 5115 (2.4GHz/10-core/85w) FIo Processor kit, HPE 128GB (8x16GB) Dual Rack x 8DDR4-2666, 5x300 GB 6 G SAS 10k rpm 12G SAS Modular Controller, 1GB 4-port network	1

SERVER ROOM	Vmware Hypervisor-II (Digital Library, LMS and LMSdb Servers): HP ProLiant DL 380 G9 Rack Server, Dual E5-2620V3 @2.4 GHz Processors, 2G 440 Smart Array Controller, 32 GB RAM, 5*300 GB SAS HDD, DVD RW, 4*1Gigabit Ethernet Cards	1
SERVER ROOM	Vmware Hypervisor-III (Old Web & Quick Heal Antivirus Servers and pfSense Firewall,) : HP ProLiant DL 380 G9 Rack Server, Dual E5-2620V3 @2.4 GHz Processors, 2G 440 Smart Array Controller, 32 GB RAM, 5*300 GB SAS HDD, DVD RW, 4*1Gigabit Ethernet Cards	1
SERVER ROOM	HP Blade Server (Bigbluebutton Server): Intel Xeon E5-2630v4 (2.2GHz/10-core /25MB/85W),Dual Processor, 64GB DDR3 RAM, 2.4TB HDD etc.,	1
SERVER ROOM	HP Blade Server (LMS Server): Intel(R) Xeon(R) CPU E5-2640 v2 @ 2.00GHz (8 Cores)/25MB/ 85W) Dual Processor, 32GB DDR3 RAM, 1.2TB HDD etc.,	1
SERVER ROOM	LTSP Thin Client Server: DELL Server Power edge T610 2S Server, IntelQuad Core E5506 xeon processor @2.15 GHz,PERC H700 Raid controller card, 16 GB DDR-2 ECC RAM, 4 MB Cache Memory, 4 x 300 GB SASHDD, DVD RW drive, Integrated Dual Broadcom Gigabyte Ethernet card, 19" LCD Monitor.	1
SERVER ROOM	Linux Server DELL Server Power edge 2900 Intel Pentium –IV, 2 x 1.8 Ghz Quad Core xeon processor, PERC 5/I Raid controller card, 4 GB DDR-2 ECC RAM, 2x4 Cache Memory, 2 x 146 GB 15K RPM SAS HDD, DVD Combo drive, Integrated Dual Broadcom Gigabyte Ethernet card, 15" Color Monitor.	1
SERVER ROOM	DHCP Server: DELL Server Power edge 2900 Intel Pentium –IV, 2 x 1.8 Ghz Quad Core xeon processor, PERC 5/I Raid controller card, 4 GB DDR-2 ECC RAM, 2x4 Cache Memory, 2 x 146 GB 15K RPM SAS HDD, DVD Combo drive, Integrated Dual Broadcom Gigabyte Ethernet card, 15" Color Monitor	1

	SERVER ROOM	Windows 2008 Server (Matlab): DELL Server Power edge 2900 Intel Pentium –IV, 2 x 1.8 Ghz Quad Core xeon processor, PERC 5/I Raid controller card, 4 GB DDR-2 ECC RAM, 2x4 Cache Memory, 2 x 146 GB 15K RPM SAS HDD, DVD Combo drive, Integrated Dual Broadcom Gigabyte Ethernet card, 15” Color Monitor	1
	SERVER ROOM	VMware V-Centre - Dell Optiplex 3050 MT Intel Core i7-7700- 7th gen processor, 16 GB RAM, 1 TB HDD, 18.5 LED Monitor	1
	SERVER ROOM	LMS (Moodle) HP 400-G Desktop Intel Core i5/4570 Processor, 8 GB RAM, 1 TB HDD, 18.5” LED Monitor, Keyboard and mouse	2
	SERVER ROOM	DHCP Server - 1 HP 3330 Desktop, Intel Core i7, 8 GB RAM, 1 TB HDD, 18.5” LED Monitor, Keyboard and Monitor,	1
	SERVER ROOM	HP 3330 Desktop, Intel Core i7, 8 GB RAM, 1 TB HDD, 18.5” LED Monitor, Keyboard and Monitor,	1
	SERVER ROOM	HP Pro 3330 i3 Processor, 4 GB RAM, 500 GB HDD, 20" led monitor, Keyboard, Mouse	5
	SERVER ROOM	HP Elite 7100 MT, Intel core i3 550 @ 3.2GHz, 2 GB RAM, 320 GB HDD, 18.5” TFT Color Monitor, Keyboard and mouse	1
		Dell i5, 8GB RAM, 1 TB HDD, 18.5" Monitor, Key Board, Mouse	1
		HP i5, 8GB RAM, 1 TB HDD, 18.5" Monitor, Key Board, Mouse	1
	SERVER ROOM	Laptop Dell Vostro 3560, Core i5 Processor, 8 GB RAM, 1 TB HDD, with DOS.	2
	SERVER ROOM	CISCO Router 1900 Series	1
	SERVER ROOM	Cisco MX100 Firewall	1
	SERVER ROOM	28 Port CISCO SG-350 Gigabit Switch	4
	SERVER ROOM	HP Lasejet MFP M1005 Printer	1
	SERVER ROOM	HP Laser jet 1020 Plus Printer	1
	SERVER ROOM	42 U Rack for Switches	1
	SERVER ROOM	8 Port KVM Switch	1
	SERVER ROOM	Netrack Servers Rack	1
	SERVER ROOM	Air conditioner 3.5 Tones	2
	SERVER ROOM	10 KVA Online UPS 5 hours Backup Techser make	1
12	A Block LAB-1	HP i3 Pro 3330 Processor, 4 GB RAM, 500 GB HDD, 20" led monitor, Keyboard, Mouse	70

13	Dept. Library	HP i3 Pro Processor, 4 GB RAM, 500 GB HDD, 20" led monitor, Keyboard, Mouse	1
14	C-203	HP i3 Pro Processor, 4 GB RAM, 500 GB HDD, 20" led monitor, Keyboard, Mouse	1
15	Staff Systems	HP 3330 Desktop, Intel Core i7, 8 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and Monitor,	4
16		HP 400-G Desktop Intel Core i7/4570 Processor, 8 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and mouse	3
17		Dell i5, 8 GB RAM, 1 TB HDD, 20" LED Monitor, Keyboard, Mouse	13
18		HP 3330 Desktop, Intel Core i7, 4 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and Monitor,	1
19		HP Elite 7100 MT, Intel core i3 550 @ 3.2GHz, Intel board, 2 GB RAM, 320 GB HDD, 18.5" TFT Monitor, Keyboard and mouse	4
20		Laptop Dell Inspiron 3567, Core i7 Processor, 8 GB RAM, 1 TB HDD, 2 GB Graphic Card, with OS. HP Laserjet M1005 Printer, Laptop Carry Bag	1
21	CSE Class Rooms	LCD Projectors with Screens	12

Department of EEE

Major Equipments:

S.No.	Name of the Laboratory	Name of the Equipment
1.	ELECTRICAL MEASUREMENTS & INSTRUMENTATION LAB	Phase Shifting Transformer
		3- Φ Auto Transformer
		AC/DC Bridges
		Loading Rheostats
		CROs
2.	CONTROL SYSTEMS LAB	Temperature controller kit
		Synchro Transmitter and Receiver.
		DC Position Control
		AC Position Control
		DC Servo Motor
		AC Servo Motor
		Stepper Motor
CRO's		
3.	BASIC ELECTRICAL ENGINEERING LAB	Auto Transformers
		DC Motors
		AC Motors
		Cut section of AC/DC Motors
		3- Φ slip ring Induction Generator Set
		CRO Demonstration kit
4.	ELECTRICAL MACHINERY LAB - I	Motor Generator Sets.
		DC Motors
		3- Φ & 1- Φ AC Motors
		Auto Transformers
		Single Phase Energy Meter
		Rectifier unit
5.	ELECTRICAL MACHINERY LAB - II	3-Phase alternator sets
		3-Phase Auto transformer
		Scott connected transformer(3- Φ to 2- Φ conversion)
		DC Motors
		3- Φ & 1- Φ AC Motors
		Loading Rheostats.
		Rectifier unit
6.	MICROCONTROLLERS LAB	8051 Trainer kit(15 Nos) Interfacing Modules

7.	POWER ELECTRONICS LAB (UG)	Power oscilloscopes (Dual Trace & Storage)
		SCR Modules
		Integrated Thyristor Controllers
		Two quadrant DC Drive
		1- Φ converter & inverter kits.
		3- Φ Half controlled bridge converter
		3- Φ Full controlled bridge converter
8.	POWER SYSTEMS LAB (UG)	Relay testing kits
		Differential Relays (Static & Numerical)
		Oil Testing kit
		Three phase transmission line model
		Current Transformers
9.	POWER SYSTEMS (PG) LAB	Differential Protection
		Auto Transformer.
		D.S.O.
		Vector Control 3HP Squirrel cage Induction Motor
		Microprocessor-Based Voltage/Current Relays
		MG-Sets
		3- Φ Transformers
		Loading Rheostats
		Distribution Panel Board
		Rectifier unit
		Solar PVTR and Solar PV Emulator
10.	POWER ELECTRONICS LAB (PG)	Digital CROs
		3- Φ Half controlled Bridge converter
		3- Φ Fully controlled Bridge converter
		1- Φ Dual converter
		3- Φ Mc-Murray inverter with R & RL Loads
		Closed loop control of PMDC Motor
		3- Φ PWM IGBT Based inverter
		Static Kramer Drive
		Slip Power Recovery System
		3- Φ Cyclo converter
11.	DIGITAL ELECTRONICS LA	Modular Experimental Trainer
		Universal Digital IC Trainer

12.	ANALOG ELECTRONICS CIRCUITS	DSO's
		CRO's
		Function generator
		RPS
13.	COMPUTER SIMULATION LAB	DELL i5- 4 GB RAM, Computers - 24 users,
		MatLab 14
		UPS-10 kVA
14.	COMPUTER LAB - II	Dell i7- 8 GB RAM, 18 Users
		DELL i5- 8 GB RAM, 04 Users
		MatLab 14
		Blue Sol Software - 03 Users
		UPS-10 kVA

Department of ECE

List of Major Equipment/Facilities in each Laboratory/ Workshop

S.No	Name of the Lab	Major Equipment
1.	BASIC ELECTRONICS-I	Multisim Education Editor, Hall effect Experiment trainer, CRO, Function generators
2.	BASIC ELECTRONICS-II	Semiconductor Trainer Kits FT308, , CRO, Function generators
3.	CCN	N-Sim Network Software, L-Sim Protocol Simulator & Analyzer software (Falcon Make)
4.	Communications	Spectrum Analyzer, Storage Oscilloscope, 8 Channel CRO, WDM, 2G/3G GSM Mobile trainer
5.	Computer Centre	Computer-DELL OptiPlex/i7/8/1 TB
6.	Electronic Circuits -I	CRO, Function generators
7.	Electronic Circuits -II	Semiconductor Trainer Kits FT308, , CRO, Function generators
8.	Electronic Workshop	CRO, Function generators, LCR Q-Meter
9.	Embedded System &VLSI	Cadence Tools Software, Mentor graphics Software, Xilinx Software, High end Computers
10.	Integrated Circuits	IC Tester Kit
11.	Microprocessors and Microcontrollers	Wind river Vxworks Software, ARM7 Trainer Kits
12.	Microwave	Microwave Power Meter, VSWR Meter, Microwave Benches
13.	Systems and Signal Processing	High end Computers, Active HDL, DSP Processor Kits, Mat Lab
14.	NCRC Lab	IRNSS-SPS-GPS Receivers, IRNSS-GPS-SBAS Receivers, RF Field Fox Analyzer, GSG Hack RF, Telescopic Antenna, GPS Antenna.

PG Programmes

Title of the Course	M.E (Communication Engineering)		
Curricula and Syllabi	Annexure – II(B)		
Laboratory facilities exclusive to the Post Graduate Course	S.No.	Name of the Lab	Facilities
	1.	CCN lab	L-Sim protocol simulator & Analyzer Software, Wireless LAN T-Network simulation (UE),MATLAB, NS2,
	2.	Communications Lab	Spectrum Analyzer, Optical Fiber Link, LabVIEW, 2G/3G GSM Mobile trainer

Title of the Course	M.E (Embedded Systems and VLSI Design)		
Curricula and Syllabi	Annexure – II(C)		
Laboratory facilities exclusive to the Post Graduate Course	S.No.	Name of the Lab	Facilities
	1.	Embedded Systems and VLSI Design Lab	Cadence Tools Software, Mentor graphics Software, Xilinx Software, FPGA Boards, MATLAB, Wind River Vx works Software
	2.	Microprocessors and Microcontrollers	WindriverVxworks Software, ARM7 Trainer Kits

Department of Information Technology

Laboratory Equipment Procured:

**Name of the Lab: ITLAB-1
JAVA AND ES&IOT LAB**

Sl. No	Description of the Major Equipment	Quantity
I. HARDWARE		
a.	Dell Optiplex 3060 i7/8/1/1TB/20"/W10/3YW	28
b.	HP Desktop Core i7/3 4GHz/8 GB RAM /1TB HDD/DVD-RW/DOS/3-3-3, HPLV1911 18.5" Black Lit monitor	04
c.	HP LaserJet 1020 plus Printer	01
d.	Panasonic LCD Projector	01
II. Network Accessories and Peripherals		
a.	24 Port Switch Cisco	02
b.	6U Wall Mounted Rack	01
III. ELECTRICAL EQUIPMENT		
a.		Air Conditioners 02
b.		UPS 30KVA(Shared with LAB I,II,III)-Power Inn 01
IV. Software's		
a.	Operating Systems : Windows 10	
b.	Languages : C, C++, JDK 1.8	
c.	Applications :KEIL μ Vision, SST software_8051, PuTTY, MS-Office 2010, Acrobat reader, Edit plus, Eclipse IDE, Notepad++, Quick Heal Total Security Antivirus.	

**Name of the Lab: ITLAB-2
ES & IOT AND DBS LAB**

Sl. No	Description of the Major Equipment	Quantity
I. HARDWARE		
a.	Dell Optiplex 3060 i7/8/1/1TB/20"/W10/3YW	27
b.	HP Desktop Core i7 /3 4GHz/8 GB RAM /1TB HDD/DVD-RW/DOS/3-3-3, HPLV1911 18.5" Black Lit monitor	05
c.	Panasonic LCD Projector	01
II. NETWORK ACCESSORIES AND PERIPHERALS		
a.	24 Port Switch Cisco	02
b.	6U Wall Mounted Rack	01
III. ELECTRICAL EQUIPMENT		
a.	Air Conditioners	02
b.	UPS 30KVA(Shared with LAB I,II,III)–Power Inn	01
IV. Software		
a.	Operating Systems : Windows 10	
b.	Languages : C, C++, JDK 1.8	
c.	Applications KEIL μ Vision, SST software_8051, Oracle SQL Developer, PuTTY, MS Office 2010, Acrobat reader, Edit plus, Eclipse IDE, Quick Heal Total Security Antivirus 2010, Acrobat reader, Edit plus, Eclipse	

Name of the Lab: ITLAB - 3

OPERATING SYSTEMS AND NETWORK PROGRAMMING LAB

Sl. No	Description of the Major Equipment	Quantity
I. HARDWARE		
a.	Dell Optiplex 3060 i7/8/1/1TB/20"/W10/3YW	27
b.	HP Desktop Core i7 /3 4GHz/8 GB RAM /1TB HDD/DVD-RW/DOS/3-3-3, HPLV1911 18.5" Black Lit monitor	05
c.	HP LaserJet 1020 plus Printer	01
d.	Panasonic LCD Projector	01
II. NETWORK ACCESSORIES AND PERIPHERALS		
a.	24 Port Switch Cisco	02
b.	6U Wall Mounted Rack	01
III. ELECTRICAL EQUIPMENT		
a.	Air Conditioners	02
b.	UPS 30KVA (Shared with LAB I,II,III)–PowerInn	01
IV. Software		
a.	Operating Systems : Windows 10	
b.	Languages : C, C++, JDK 1.8	
c.	Application Tools:Dot net Visual Studio 2012 , NetBeans IDE, XAMPP, MS-Office 2010, Acrobat reader, PuTTY, Quick Heal Total Security Antivirus.	

Name of the Lab: ITLAB-4**MINI PROJECTS LAB**

Sl. No	Description of the Major Equipment	Quantity
I. HARDWARE		
i.	HP Server: Intel Quad Core Xeon E 5410 Processor, 2x6 MB Cache, 8 GB DDR 2, 667 MHz ECC RAM, 3x 146 GB Hard Disk (SAS), RAID 5 Controller, 17" CRT Monitor, DVD–RW Drive 48x Max speed, USB to PS/2 dongle Cable, Integrated Dual Broadcom Gigabit Network Card, Chassis- Tower Orientation for Power edge 2900, USB Keyboard, Optic Mouse Scroll, 930W Redundant Power Supply	01
ii.	Dell Power Edge T610 Intel2S Server: Inter Quad Core E5506 Xeon Processor, TPM Mother Board for T610, 2.13GHz, 4MB Cache, 16 GB 1333 MHz RDIMMs, 4x 300 GB HDD (SAS), RAID 5 Controller, 19" LCD Flat Monitor, DVD–RW Drive 16x Max speed, 5709C Dual port Gigabit Ethernet, USB Keyboard, Optic Mouse Scroll, 570W Redundant Power Supply	01
iii.	Dell Optiplex 3050MT i7 Model Intel Core i7-7700 3.6 GHz 7th Gen Processor , 16GB RAM, 1 TB HDD 7200 RPM SATA, No DVD, 18.5" LED Monitor, Keyboard & Mouse, DOS , 3 Years Warranty	24
iv.	HP Desktop Core i7 /3 4GHz/8 GB RAM /1TB HDD/DVD-RW/DOS/3-3-3, HPLV1911 18.5" Black Lit monitor	07
v.	Panasonic LCD Projector	01
II. NETWORK ACCESSORIES AND PERIPHERALS		
i.	24 Port Switch Cisco	02
	6U Wall Mounted Rack	01
III. ELECTRICAL EQUIPMENT		
a.	Air Conditioners	02
b.	UPS 10 KVA – Power Inn	01
IV. Software		
i.	Operating Systems: Windows 10	
ii.	RDBS: Oracle 11g Server and Client, Red hat Linux	
iii.	Languages : C, C++, JDK 1.8	
iv.	Application Tools: PuTTY, MS Office 2010, Weka Tool, Eclipse IDE and Quick Heal Total Security Antivirus.	

Name of the Lab: ITLAB-5

BIG DATA ANALYTICS AND DATA MINING LAB

Sl. No	Description of the Major Equipment	Quantity
I. HARDWARE		
a.	Dell Optiplex 3050 MT i7 Model Intel Core i7-7700 3.6 GHz 7th Gen Processor , 16GB RAM, 1 TB HDD 7200 RPM SATA, No DVD, 18.5" LED Monitor, Keyboard & Mouse, DOS , 3 Years Warranty	26
b.	HP Desktop Core /3 4GHz/8 GB RAM /1TB HDD/DVD-RW/DOS/3-3-3, HPLV1911 18.5" Black Lit monitor	07
II. NETWORK ACCESSORIES AND PERIPHERALS		
a.	24 Port Switch Cisco	02
b.	6U Wall Mounted Rack	01
III. ELECTRICAL EQUIPMENT		
a.	Air Conditioners	02
b.	UPS 10KVA – Cyber	01
IV. Software		
a.	Operating Systems : Ubuntu 18.04 LTS, Windows 10	
b.	Languages : C, C++, JDK 1.8, Python	
c.	Applications :Oracle 11g Server, Moodle, Hadoop, Spark, Pig & Hive Frame Works, Weka Tool, R & R-Studio, Python & Eclipse IDE, VMware Workstation15.0 E- License and Quick Heal Total Security Antivirus.	

Name of the Lab: ITLAB-6

M.TECH (CNIS) LAB

Sl. No	Description of the Major Equipment	Quantity
I. HARDWARE		
a.	HP Desktop Core i7/ 8 GB RAM / 1TB HDD/ DVD-RW/DOS/3-3-3, HPLV1911 18.5" LED/LCD monitor	32
b.	HP LaserJet 1020 plus Printer	01
c.	Panasonic LCD Projector	01
II. NETWORK ACCESSORIES AND PERIPHERALS		
a.	24 Port Switch Cisco	02
b.	6U Wall Mounted Rack	01
III. ELECTRICAL EQUIPMENT		
a.	Air Conditioners	02
b.	UPS 10KVA – Power Inn	01
IV. Software		
a.	Operating Systems : Windows 7, Ubuntu 16.04	
b.	Languages : C, C++, JDK 1.8 .	
c.	Applications :PuTTY , MS Office 2010, Weka Tool & Eclipse IDE, Hadoop.	

Department: **MECHANICAL ENGINEERING**

Major Equipment

Major equipment/Software (Rs 50,000) available (in Working Condition)

S No	Name of the Equipment / Software	Qty	Price per Unit (Rs.)	Make and Model	Date of Purchase	Name of the Lab	Usage and scope
1	GNM2-Lathe	04	169188.85	M/S Jayesams' Engineering co., 151,Rashrapathi Road, Sec'bad	24-03-1981	Machine Tools Lab	Lab experiments for I & II sem all branches, V sem (mech) and VII Sem Production students
2	Tiger-Lathe	04	162780.00	M/S Union Machine tools., 134,Rashrapathi Road, Sec'bad	4-9-1981	-Do-	Lab experiments for I & II sem all branches, V sem (mech) and VII Sem Production students
3	MK(Mysore Kirloskar)-Lathe	04	185922.90	M/S Union Machine tools., 134,Rashrapathi Road, Sec'bad	3-2-1981	-Do-	Lab experiments for I & II sem all branches, V sem (mech) and VII Sem Production students
4	GEDEE WEILER Lathe	02	70410.24	M/S Union Machine tools., 134,Rashrapathi Road, Sec'bad	3-5-1981	-Do-	Lab experiments for I & II sem all branches, V sem (mech) and VII Sem Production students
5	Universal milling machine	01	106911.11	M/S Bharat Fritz werner Private Ltd., Peenya,Bangalore	31-7-1981	-Do-	Lab experiments for V sem (mech) and VII Sem Production

							students
6	HMT Lathe	01	75428.00	M/S Qet Cos Ltd., factory, Umayanallor, P.O. Quilan,Kerala	4-1-1982	-Do-	Lab experiments for V sem (mech) and VII Sem Production students
7	PSG Lathe	02	89372.08	M/S PSG Industrial Estate., 5-3-336,Rashrapathi Road, Sec'bad	30-03-1981	-Do-	Lab experiments for V sem (mech) and VII Sem Production students
8	HMT (New Lathe)	01	1552162.00		15.06.2016	-Do-	Lab experiments for V sem (mech) and for final year projects
9	Lathe Tool Dynamometer Drill Tool Dynamometer Milling Tool Dynamometer	1 Each	145000	Measure India	25.08.2017	-Do-	Lab experiments for V sem (mech) and for final year projects
10	Nano UTM	1	3061085	BISS	08/01/2016	CAD/CAM Lab	To carry out tension , compression, bending, fracture toughness, crack tip opening displacement and fatigue test in metals, non metals , ceramics and composite materials for research and final year projects
11	Wear Lubrication and Friction Tester	1	980000	MAGNUM	15/02/2016	-Do-	To understand the effect of lubricant and load conditions for carrying out research and final year

							projects
12	Ultra Sonic Flaw Detector	1	175000	ENISTIEN	15/02/2016	-Do-	To detect hidden cracks, voids, porosity, and other internal discontinuities in metals, composites, plastics, and ceramics for research and final year projects
13	Image Analyzer	1	825000	Metco, SDM-IE200	03/07/2015	-Do-	To understand the microstructure and measurement of minute dimensions in a sample for research and final year projects
14	Sand testing equipment	1	282151	Mt.Sonic Engineers Pvt. Ltd,Secunder abad	19-5-2016	Casting Lab	Lab experiments for III sem (mech) and IV Sem Production students
15	Welding Rectifier Throlex (401)(TLG)	1	120978	Advani Overlikon	4-6-2002	Welding Lab	Lab experiments for I & II sem all branches, III sem (mech) and IV Sem Production students and also any fabrication works in the college.
16	TIG Welding attachment model(ADOR TLG 25/30)	1	122737	Advani Overlikon	19-6-2002	-Do-	Lab experiments for III sem (mech) and IV Sem Production students and for final year projects

17	MIG Welding M/c Ranger(400 D/C)	1	144121	Ashok Brothers, Koti,Hyderabad	4-6-2002	-Do-	Lab experiments for III sem (mech) and IV Sem Production students and for final year projects
18	HP Z220 Workstation Consisting Of Ram-8GB, HDD-1TB, Graphic Card-1GB, LRD Monitor-18.5"	25 Nos	1977150	HP Microcare Computers Pvt Ltd	27-6-2013	CFD Lab	Lab experiments for II Sem ME Thermal Engineering, CAD/CAM and student projects for both ME and BE.
19	HP Z420 Workstation Consisting of Ram-16GB, HDD-3TB, Graphic Card: NVIDIA 1GB, 23" LED Monitor	1				CFD Lab	Using for R&D
20	Ansys Academic Teaching Version 19R1	50 Users	800000	ARK Info Solutions Pvt Ltd	30-3-2018	-Do-	Lab experiments for ME Thermal Engineering, CAD/CAM and student projects for both ME and BE.
21	Altair Hyper WorksV-12 Version	2 Users	955622	Akademy of design & Architecture, Hyd	30-1-2014	-Do-	For student projects
22	Online UPS 10 KVA, Batteries	1	157067	Power INN Systems & Controls, Hyd	29-3-2015	-Do-	Provides backup power for CFD and CAD/CAM labs
23	LCD Projector NEC Projector [3-230X]	1	51525	Jyoti Audio Visual Pvt Ltd., Hyd	18-4-2013	-Do-	For ME, BE Lab classes and project presentations

24	Universal Vibration Apparatus	1	58500	Supersonic Electronics	31-7-2015	DOM Lab	For students to conduct practicals during regular lab sessions
25	Universal vibration Apparatus	2	117000	-Do-	19-8-2015	DOM lab	For students to conduct practical's during regular lab sessions
26	DELL Precession Work Station	1	1480000	DELL		R&D Block Hexagon Lab	
27	CESAR-II,PV Lite, Tank, GT Strudl	1	650000	Software		-Do-	
28	Monocular metallurgical microscope model METZ 56	5	67275	Metasonic engg radio centre sec.bad (p) Ltd.	2-10-1989	-Do-	To study the microstructure of specimens for research and final year projects. Used in BE laboratory experiments also.
29.	Hydra 645 3D-Printer With MK450 Extruder	1	2537000.00	Adroitec Information System Pvt Ltd. Invoice no:- E/18/P/UP/280	27.02.2019	Do	
30	PC based image analysis system include color ccd camera framer gabber card and full image analyser software	1	200000	Metsonic engineers red cross road sec' bad	8-11-2004	MSM Lab	To study the microstructure of specimens for research and final year projects. Used in BE laboratory experiments also.
31	Hydraulic press Capacity – 50 Tons	1	249750	Borewell Hydraulic	11-6-2003	MFT Lab	

32.	SEMI-HYDRAULIC PIPE BENDING MACHINE	1	206500	TEKCONS SYSTEMS	14-12-2017	MFT Lab	
33	25 TONS Hydraulic press	1	58300	Union Machine Tools	24-9-1995	MFT Lab	
34	V.M.C TRIAC	1	1499332	M TAB Engineering Private Ltd	4-2-1995	CAD/CAM Lab	To carry out experimental work for VI semester students during regular class work and final year projects
35	TRIAC V.M.C TOOLING PACKAGE	1	70000	M TAB Engineering Private Ltd	11-11-1995	-Do-	To carry out experimental work for VI semester students during regular class work and final year projects
36	HP XW 4600 WORKSTATION	1	138320	HP-Apoorva IT Solutions	10-9-2009	-Do-	Hardware accessory while carrying out regular classwork
37	Refurbishing of TRIAC M/C with Tooling Package	1	300000	M TAB Engineering Private Ltd.	11-6-2010	-Do-	Hardware accessory while carrying out regular classwork
38	HP 3330 DESKTOP - I7	20	975450	HP-Microcare Computers	29-3-2015	-Do-	Hardware accessory while carrying out regular classwork and research
39	HP I5	15	661500	HP	5-9-2015	-Do-	Hardware accessory while carrying out regular classwork and research
40	10KVA UPS	1	91967		29-3-2015	-Do-	Hardware accessory

							while carrying out regular classwork
41	AIR COMPRESSOR	1	79660	SLS ENGINEERS	30-12-2016	-Do-	Hardware accessory while carrying out regular classwork
42	DIGIMAT ACADEMIC RESEARCH SOFTWARE	1	173192	CSM SOFTWARE PVT LTD	20-2-2017	-Do-	Accessory to carry out final year student projects and research work.
43	HP Z 240 WORKSTATION	10	735000	HP-Microcare Computers	4-9-2017	-Do-	Hardware accessory while carrying out research work
44	SOLID WORKS-18	500 Users	1087370	Logical Solutions	19-4-2018	-Do-	Accessory to carry out regular classwork for VI semester students
45	Zeiss Measuring Optical Projector MP-320	1	95164	Zeiss	19-1-1983	M & I Lab	Lab experiments for VII sem Mechanical & Production Engineering students
46	Zeiss Large tool makers microscope	1	71479	Zeiss	19-1-1983	-Do-	Lab experiments for VII sem Mechanical & Production Engineering students and for final year Students projects
47	DAK Strain Gauge Starter kit		104760		5-4-2004	-Do-	Lab experiments for VII sem Mechanical & Production Engineering students .

48	Mescon Make strain meter		85320	MESCON	5-4-2004	-Do-	Lab experiments for VII sem Mechanical & Production Engineering students
49	Dell Optiplex 3060 I7 Computer	1	52575	DELL	29-8-2018	-Do-	Lab experiments print out for VII sem Mechanical & Production Engineering students .
50	Taylor Hobson Talysurf Surface Roughness Tester S-100 Series	1	324500	Taylor Hobson Talysurf	5-2-2019	-Do-	Lab experiments for VII sem Mechanical & Production Engineering students and for final year Students projects
51	Optical/Profile Projector 400TE, Computerized Measuring System With 2D Software	1	487635	Zeiss	3-7-2019	-Do-	Lab experiments for VII sem Mechanical & Production Engineering students and for final year Students projects
52	VCR petrol Engine	1	88825	M/s Mectrix Engineers	2-10-2017	ATD Lab	
53	4 Stroke Multicylinder petrol engine	1	192400	Tech-ED Equipment Company	6-9-2003	-Do-	
54	Bajaj 2 stroke petrol engine	1	261169	M/s IND Lab Equipment	7-7-2009	-Do-	
55	Raise 3D N2 Plus 3D Printer Volume: 305 X 305 X 610	1	588000	Adroitec Engineering Solutions Pvt Ltd.	3-9-2016	Additive Manufacturing Lab	Print complex prototypes, customized production parts for regular

							classwork, final project and research for PLA, ABS, Nylon, Bronze PLA, BrassFill PLA, HIPS, Wood PLA, PC-ABS, PC, ASA, Rubber/Flex (TPU), PETG, Carbon Fiber, ColorFabb XT, ColorFabb XT CF20 (PET-G), PLA-CF , CF-Nylon, PA-CF low warp, Marble PLA materials
56	Next Engine HD 3D Scanner	1	875000	Next Engine HD 3D	5-1-2018	-Do-	Used in industrial design, engineering, and manufacturing , to quickly and precisely capture the required data for final year and research projects
57	Flash Forge Inventor 3D Printers, Build Volume: 230 X 150 X 160 mm ³	2 Nos	165200	Daksha Online Services Pvt Ltd	9-4-2018	-Do-	Print complex prototypes, customized production parts for regular classwork, final project and research for PLA, ABS, TPU etc.
58	Form Labs SLA Base 3D Printer. Build Volume: 145 X 145 X 175 mm ³	1	507400	Adroitec Information System Pvt Ltd.	30-4-2018	-Do-	Print complex prototypes, customized production parts for regular classwork, final project and research

59	Markforged Onyxpro 3D Printer. Build Volume: 320 X 132 X 154 mm3	1	855500	-Do-	30-4-2018	-Do-	Printers' base material is a blend of nylon and chopped carbon for stronger and stiffer parts than plastics other printers that stands up to corrosive chemicals common in manufacturing is applicable for final year project and research work
60	Dell Optiplex 3060 I7 Systems Consisting Of Ram-8GB, HDD-1TB, Graphic Card-2TB, Monitor 20"	12 Nos	743994	Care Computer Services	11-1-2019	-Do-	Accessory while carrying out regular class work, final year project and research work
61	GI sheet cutting machine	1	51620		6-1-2013	Central Worksh op	
62	BOSCH tuition kit for modernisation of workshop	1	269724	BOSCH tuition kit for modernization of workshop	10-4-2008	-Do-	
63	Refrigeration Tutor	1	82900	B.S. Pyromatic India (p) Ltd	82900	Thermal Engg. Lab	Regular Lab
64	Axial Flow fan	1	200000	INDLAB Equipment	25-3-1997	-Do-	Regular Lab
65	Centrifugal Blower Test rig	1	202800	-Do-	25-3-1997	-Do-	Regular Lab
66	Nozzle pressure distribution apparatus	1	105385	-Do-	12-8-2010	-Do-	Regular Lab
67	Air conditioning	1	72000	B.S. Pyromatic	3-2-2010	-Do-	Regular Lab

	Tutor			India (p) Ltd			
68	Subsonic WindTunnel	1	4,50,000/-		March 2019	Do-	Regular Lab and Student Projects
69	Coefficient of thermal expansion - Measurement of solids, liquids and gases	1	134004	INDLAB Equipment	23-12-2013	Thermal Systems Lab	Regular Lab
70	Heat pipe demonstration	1	83855	-Do-	23-12-2013	-Do-	Regular Lab
71	Thermal capacity of solids	1	56331	-Do-	23-12-2013	-Do-	Regular Lab
72	Determination of Isentropic coefficient of air-Clement Desormes Method	1	66812	-Do-	23-12-2013	-Do-	Regular Lab
73	Kirloskar 5 HP Diesel engine with computer interfacing	1	6029063	-Do-	22-1-2014	-Do-	Regular lab and student's projects
74	Cross flow heat exchanger	1	75531	-Do-	15-3-2014	-Do-	Regular lab
75	Multicylinder 4-Stroke Diesel engine	1	737036	-Do-	8-12-2015	-Do-	Regular lab and student's projects
76	HP Pro 3330 MT Desktop Intel Core i3, 4GB RAM, 500GB Hard Disk, DVD RW, 20"LED Monitor, Gigabit Lan Card, Keyboard and Mouse	130 Nos	7150000	HP		Engineering Graphics & Design Lab	

77	20 KVA Online UPS with 1/2 hour back	1	228400	Power Systems	19-9-2013	-Do-	
78	10KV online UPI Techsel Make	1	272000	Techsel	6-5-2007	-Do-	
79	Solar Thermal Training System	1	3.50,000/-	Ecosense Delhi	October2019	Design of Solar and Wind Systems Lab	Regular Lab and Student Projects
80	Solar Concentrator Training System	1	5,50,000/-	Ecosense Delhi	October2019	Design of Solar and Wind Systems Lab	Regular Lab and Student Projects

Department of MCA

(LIST OF MAJOR EQUIPMENT) above 1 lakh

S.No.	Item Description	Quantity	Cost in Rupees
I	HARDWARE		
1	HP 3330 Desktop Core i5-34701, 8GB RAM, 1 TB HDD, GRAPHIC Card, TFT Color Monitor, DVD RW, 10/100/1000 Mbps Ethernet Card, Keyboard and mouse.	30	30*41,100 =12,33,000/-
2	HP Elite 7100 Desktop Intel Core i3-500 Processor 2 GB RAM 520 GB HDD, DVDs, 18.5" TFT Monitor	12+3	12*26500= Rs 3,18,000 3*27,700= Rs 83,100/-
3	HP Elite 7100 Desktop Intelcore i3-500 Processor, 2GB RAM, 32GB HDD, DVDs, 17.5" TFT Monitor	06	6*26500= Rs 1,59,000
4	K4Q81AV-HP 400G2 Desktop core i7-4770/3, 64ghz / 890/1 TB/DVD RW, USB/KB and mouse/005/333 G9/W86AA-HP V193, LED 18.5" Monitor	15	15*48,500= Rs 7,27,500
5	10 KVA UPS Online CONSUL with ½ hour backup	01	Rs1,22,000/-

Department of SMS

List of Major Equipments

Level	Is it Research Lab for PG Course?	Name of the Laboratory	Lab / Major Equipments	Apply for Site Change	Type	Building Name	Building Number
POST GRADUATE	No	SMS LAB-1	30 Dell Optiplex-3020, Intel Core i5-4570-3.2 GHz(4th Gen), Quad core Processor, 6 MB Cache Memory	No	Laboratory	A BLOCK	1
POST GRADUATE	No	SMS LAB-2	30 HP 3330 DESKTOP (WITHOUT GRAPHIC CARD)CORE15-347-/8GB RAM/1TBHDD/DVD-RW/DOS/3-3-3,10KVA UPS-1,ETC	No	Laboratory	A BLOCK	1

Department of Physics

List of Equipment in Lab – I

S.No	Name of the Equipment	Make	Qty.	Cost	Total Cost
1	Polorimeter	Texla	10	9000	90000
2	Sonometer	Omega	6	1000	6000
3	Compound Pendulum	Texla	12	1200	14400
4	Fly Wheel		6	1000	6000
5	Torsional pendulum	Texla	7	1000	7000
6	B-H Curve	Texla	12	5666	67992
7	Fiber Opttics	Texla	18	11000	198000
8	Malus's Law	Texla	10	9300	93000
	Malus's Law	Texla	3	11500	34500
9	Young's Modulus	Mikron	6	2860	17160
				Total	534052

List of Equipment in Lab – II

S.No	Name of the Equipment	Make	Qty.	Cost	Total Cost
1	R.P.Telescope	Mikron	12	3000	36000
2	Traveling Microscope	Mikron	15	10000	150000
	Traveling Microscope	Texla	5	13250	66250
3	Spectro Meters	texla/omega	21	14000	294000
4	Optical Bench		5	4000	20000
	Optical Bench up-rights	Texla	4	13500	54000
5	Single Slits	texla	10	1250	12500
6	Double Slits		2	500	1000
7	Viscosity-Lamp & Scale	Mikron	6	9336	56016
				Total	689766

List of Equipment in Lab – III

S.No.	Name of the Equipment	Make	Qty.	Cost	Total Cost
1	Melde's Experiment	Mikron	8	10000	80000
2	E/M of an Electron	texla	13	15000	195000
	E/M of an Electron	texla	5	15850	79250
3	Dielectrc Constant	Puspa	6	29600	177600
4	Laser Diode	texla	10	6800	68000
5	GM Counter		1	53000	53000
6	Ultrasonic Interferometer	texla	6	38200	229200
	Ultrasonic Interferometers	Texla	2	50500	101000
7	Thermo Electric Power	Puspa	4	44600	178400
8	Helmholtz Resonator	Mikron	6	3166	18996
9	M & H Values	Mikron	8	4000	32000
				Total	1212446

List of Equipment in Lab – IV

S.No.	Name of the Equipment	Make	Qty.	Cost	Total Cost
1	Solar Cell	Texla	15	4000	60000
	Solar Cell	Texla	2	5800	11600
2	Plank's Constant	Texla/Mikron	11	5535	60885
	Plank's Constant	Texla	3	17250	57750
3	Energy Gap	Texla	17	3600	61200
	Energy Gap with digital meters	Texla	5	5050	25250
4	Thermister	texla	8	4250	34000
5	P-N Junction Diode	Texla/Mikron	19	4000	76000
6	Hall Effect	Indosaw	11	32000	352000
	Hall Effect	Texla	3	42500	127500
7	LED Characterestics	Mikron	6	8800	52800
	LED Characterestics	Texla	2	6450	12900
8	LCR Circuit	Mikron	6	8944	53664
	LCR Circuit	Texla	3	14050	42150
				Total	1027699