

Program Wise Lab Details

Department: CSE & CST

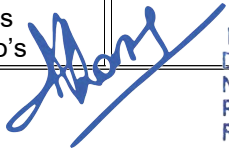
Name of Program	Name of Laboratory	Major Equipment	List of Equipment added during previous year	List of Equipment added
Engineering & Technology	Programming in 'C' Lab (ES-153)	72 No's Computer Nodes 02 No's LaserJet Printer 03 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Programming in 'C' Lab (ES-154)	72 No's Computer Nodes 02 No's LaserJet Printer 03 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Computational Methods Lab. (ETES- 251)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Data Structures Lab. (CIC-255)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Object Oriented Programming Lab. (CIC 257)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Probability, Statistics and Linear	24 No's Computer Nodes	NIL	Nil


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	Programming Lab (BS-252)	01 No's LaserJet Printer 01 No's Switch 24 Port		
Engineering & Technology	Database Management Systems Lab. (CIC 256)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Programming in Java Lab (CIC-258)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Compiler Design Lab (CIC-351)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
Engineering & Technology	Operating Systems Lab (CIC-353)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Software Engineering Lab (CIC-357)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Design and Analysis of Algorithm Lab (CIC-359)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port

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Engineering & Technology	Computer Networks Lab. (CIC-355)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port 06 No's Hub 01 No's Switch 01 No's Router 04 No's Crimping Tools 20 No's NIC (Gigabit) NIC (Fast Ethernet) CAT-5e Cable Fiber Cable RJ-45 Connectors Window 2000 Server Kit (LJ Technician)	NIL	Nil
Engineering & Technology	Advanced Java Programming Lab (CIE-306P)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
Engineering & Technology	Programming in Python Lab (CIE-332P)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
Engineering & Technology	Artificial Intelligence Lab (CIE-374P)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
Engineering & Technology	Information Security Lab (ETCS 451)	24 No's Computer Nodes 01 No's	NIL	Nil


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		LaserJet Printer 01 No's Switch 24 Port		
Engineering & Technology	Software Testing and QA Lab (ETCS 453)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Lab based on Elective I or II (ETCS 457)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Wireless Communication Lab (ETEC 463)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Mobile Computing Lab. (ETIT 452)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Machine Learning Lab (ETCS 454)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Lab based on Elective – I (ETCS 456)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil


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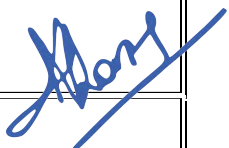
Engineering & Technology	Lab based on Elective – II (ETCS 458)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	 Prof. (Dr.) V. Sharma Director
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Program Wise Lab Details

Department: Computer Science and Engineering (AI, AIML, DS)

Name of Program	Name of Laboratory	Major Equipment	List of Equipment added during previous year	List of Equipment added
Engineering & Technology	Programming in 'C' Lab (ES-153)	72 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Programming in 'C' Lab (ES-154)	72 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Computational Methods Lab. (ETES-251)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Data Structures Lab. (CIC-255)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Object Oriented Programming Lab. (CIC 257)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Probability, Statistics and Linear Programming Lab (BS-252)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Database Management Systems Lab. (CIC 256)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Programming in Java Lab (CIC-258)	24 No's Computer Nodes 01 No's LaserJet	NIL	Nil


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		Printer 01 No's Switch 24 Port		Prof. (Dr.) N. Sharma Director
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Program Wise Lab Details

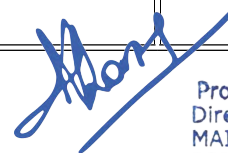
Department: AIDS & AIML

Name of Program	Name of Laboratory	Major Equipment	List of Equipment added during previous year	List of Equipment added
Engineering & Technology	Foundations of Data Science Lab (AIDS-253)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Principles of Artificial Intelligence Lab (AIDS-257)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Web Programming Lab (AIDS-259)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Computer Networks and Internet Protocol Lab (AIDS-256)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Fundamentals of Machine Learning Lab (AIDS-258)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Design and Analysis of Algorithms Lab (AIDS-353)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Data Mining lab (AIDS-355)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch	NIL	Nil

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		24 Port		
Engineering & Technology	Introduction to Internet of Things Lab (AIDS-357)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Digital Image Processing Lab (AIDS-354)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Blockchain Technology Lab (OAE-304P)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	Nil
Engineering & Technology	Big Data Analytics Lab (AIDS-306P)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port, Smart Board 01 No's	NIL	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port ,Smart Board 01 No's
Engineering & Technology	Fundamentals of Deep Learning Lab (AIDS-304P)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port	NIL	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
Engineering & Technology	Social Network Analytics Lab (AIDS-310P)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port, Smart Board 01 No's	NIL	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port , Smart Board 01 No's



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Department: Information Technology and Engineering

S.No.	Name of Program	Name of Laboratory	Major Equipment
1	Engineering & Technology	Computational Methods Lab. (ES- 251)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
2	Engineering & Technology	Data Structures Lab. (CIC 255)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
3	Engineering & Technology	Data Communication and Networks Lab (ETEC 358)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
4	Engineering & Technology	Database Management Systems Lab. (CIC 256)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
5	Engineering & Technology	Data Science Lab. (ETCT 351)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
6	Engineering & Technology	Programming in Java Lab (CIC 258)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
7	Engineering & Technology	Algorithm Design & Analysis Lab. (E CS 351)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port

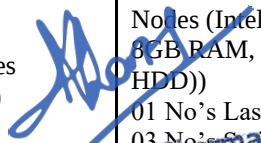

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8	Engineering & Technology	Operating System Lab (ETCS 352)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port
9	Engineering & Technology	Information Retrieval System Lab (ETIE 354)	24 No's Computer Nodes 01 No's LaserJet Printer 01 No's Switch 24 Port

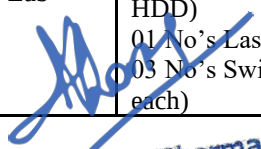

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Department: Information Technology

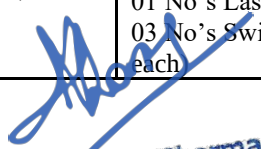
S.No.	Name of Program	Name of Laboratory	Major Equipment	List of Equipment added during previous year	List of Equipment added
1	Engineering & Technology	Foundation of Data science Lab (AIDS 253) (3rd Semester)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD))
2	Engineering & Technology	Computational Methods Lab(ES 251)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)		
3	Engineering & Technology	Principles of AI Lab(AIDS 257)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)		
4	Engineering & Technology	Web Programming Lab (AIDS 259)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	2 No's Computer Nodes(Intel I5	54 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 03 No's Switch (24 Port each)
5	Engineering & Technology	OOPusing C++ Lab(CIC 257)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	03 No's Switch (24 Port each)
6	Engineering & Technology	Data Structures Lab(AIDS 251)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	
7	Engineering & Technology	Data Structures Lab(CIC 255)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	


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8	Engineering & Technology	Object Oriented Programming Lab. (ETCS 258)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	
9	Engineering & Technology	Computer Organisation & Architecture (ETCS254)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	
10	Engineering & Technology	Database Management Systems Lab.	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	
11	Engineering & Technology	Java Programming Lab.(ETCS 357)	62 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD) 4 No's Computer Nodes (Intel Core i3, 4 GB RAM, 1 TB HDDDD) 01 No's LaserJet Printer 04 No's Switch (24 Port each)	NIL	
12	Engineering & Technology	Software Engineering Lab (ETCS 353)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	
13	Engineering & Technology	Algorithms design and Analysis Lab (ETCS 351)	62 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD) 4 No's Computer Nodes (Intel Core i3, 4 GB RAM, 1 TB HDDDD) 01 No's LaserJet Printer 04 No's Switch (24 Port each)	NIL	
14	Engineering & Technology	Data Sciences Lab (ETCT 351)	66 No's Computer Nodes (Intel Core i3, 2 GB RAM/500 GB HDD) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	03 No's Switch (24 Port each)


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15	Engineering & Technology	Operating System Lab(ETCS352)	62 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD) 4 No's Computer Nodes (Intel Core i3, 4 GB RAM, 1 TB HDD) 01 No's LaserJet Printer 04 No's Switch (24 Port each)	NIL	
16	Engineering & Technology	Data Communication lab	62 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD) 4 No's Computer Nodes (Intel Core i3, 4 GB RAM, 1 TB HDD)	NIL	
17	Engineering & Technology	Wireless Communication Lab	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	NIL	
18	Engineering & Technology	Advanced Computer Network Lab.	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)	One 10 KVA Online U.P.S. with 16 Batteries.	
19	Engineering & Technology	Cryptography and network Security Lab (ETIT 455)	66 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD)) 01 No's LaserJet Printer 03 No's Switch (24 Port each)		
20	Engineering & Technology	Advanced Database Administration Lab	62 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD) 4 No's Computer Nodes (Intel Core i3, 4 GB RAM, 1 TB HDD) 01 No's LaserJet Printer 04 No's Switch (24 Port each)	One 10 KVA Online U.P.S. with 16 Batteries.	
21	Engineering & Technology	Mobile Computing Lab. (ETIT 452)	66 No's Computer Nodes (Intel Core i3, 2 GB RAM/500 GB HDD) 01 No's LaserJet Printer 03 No's Switch (24 Port each)		


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22	Engineering & Technology	.Ad hoc and Sensor Networks Lab	62 No's Computer Nodes (Intel core i5, 8GB RAM, 1 TB HDD) 4 No's Computer Nodes (Intel Core i3, 4 GB RAM, 1 TB HDD) 01 No's LaserJet Printer 04 No's Switch (24 Port each)		
23	Engineering & Technology	Soft Computing (ETIT 456)	66 No's Computer Nodes (Intel Core i3, 2 GB RAM/500 GB HDD) 01 No's LaserJet Printer 03 No's Switch (24 Port each)		
24	Engineering & Technology	E-Commerce and M-commerce Lab	66 No's Computer Nodes (Intel Core i3, 2 GB RAM/500 GB HDD) 01 No's LaserJet Printer 03 No's Switch (24 Port each)		01 No's Switch (24 Port each)


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Department: Electronics and Communication Engineering

S.No.	Name of Program	Name of Laboratory	Major Equipment	List of Equipment added during previous year	List of Equipment added
1	Engineering & Technology	ANALOG ELECTRONICS LAB I (ETEC-251, ETEC-251M, ETCS-251, ETEE-255, ETEC-254, ETEE-254)	IC Regulated Power Supply, Oscillator, Audio Oscillator, Transistor Tester, Linear I.C. Trainer, Low Distortion Audio Generator, Function Generator, Computers(5), CRO(11), Ohm's law apparatus, zener diode kit, semiconductor diode kit, RC amplifier kit, UJT kit, semiconductor device characteristics, junction diode rectifier and filter characteristics, discrete component tester, transistor biasing technique kit, diode clipping circuits, transistor characteristics, MOSFET characteristics, AC-milivolt meter, audio frequency generator, mono power supply, output power meter, push-pull amplifier, RF-LC oscillator, Weinbridge oscillator, audio amplifier with power supply, Emitter follower with power supply, linear IC trainer, low distortion audio generator, DC milli-ammeter(100 and 500ma), DC volt meter (1v,30v). DSO-17, DUAL POWER SUPPLY-9, FUNCTION GENERATOR-9	FUNCTION GENERATOR-5 Dual Power Supply 10	NIL


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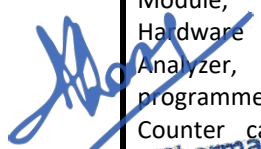
2	Engineering & Technology	Electronics Instrumentation and Measurement	AC-milivolt meter, audio frequency generator, mono power supply, output power meter, linear IC trainer, low distortion audio generator, DC mili- ammeter(100 and 500ma), DC volt meter (1v,30v). DSO-6, DUAL POWER SUPPLY-7, FUNCTION GENERATOR-7, LCR METER-5		NIL
3	Engineering & Technology	MICROPROCESSOR SYSTEM-I LAB(ETEC-354, ETEE -352, ETME-351)	Advance Microprocessor 8085 Trainer Kit (25), Logic Analyser-480, Micro tutor 85 (S\W),	UPS- BATTERY-32	NIL
4	Engineering & Technology	DIGITAL CIRCUIT AND SYSTEM-II LAB, VLSI DESIGN LAB(ETEC-356, ETEC-360, ETEC-455, ETEC-351)	Computers (20), Printer, VLSI Trainer, Programmable Logic Trainer, CPLD/ FPGA Digital Logic design trainer, ALDEC Lock (EDA),CPLD/ FPGA IC,CPLD lab board kit, General purpose interfacing board, DC motor interface module, ALTERA VHDL SIMULATOR & SYNTHESIZER ,TANNER tools for complete VLSI	-----	NIL
5	Engineering & Technology	EMBEDDED SYSTEM LAB(ETEC-452)	8031/8051 based micro-controller trainer kit (9 no.), I/O interfacing board, Application specific kit, General purpose interface module Micro tutor AVR ATMEL controller kit	-----	NIL


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			6Micro tutor AVR ATMEL student kit, DSP training kit TMS 320 C5416, DSP training kit TMS 320 LF2407, Daughter interface card for TMS 320 C6711,Computer(20), printer Xilinx STARTAN- 3 Starter board, Code Composer Studio IDE, educational practice board for 8085, all in one general purpose board with onboard keys, 8051 IDE (10 users).LCD./matrix key board interfacing kit, 7-segment LED interfacing kit, RTC-EPROM interfacing kit, 8-bit DAC interfacing kit, stepper motor interfacing kit, relay interfacing kit 8-bit parallel ADC interfacing kit, I/O module, I2C protocol. Demonstration.		
6	Engineering & Technology	DIGITAL CIRCUIT AND SYSTEM-I LAB(ETEC-256, ETEE-351)	Digital IC Tester (ICT 006), Logicom Iv (Ltb-809), Logic Training Board On Counters And Logic-com (Ltb-805), Function Generator (Hm- 30/4), CRO(4),PC Interface Design Trainer, 4 Bit binary decade counter, Logic training Board on counter and shift register, decade counter, flip-flop training kit, ex-or/nor training kit, decoder, power supply-13, logic gate circuit trainer, DCS binary adder subtractor demonstrator, 4 bit binary full adder subtractor, logic gate study kit, Computer	STLD POWER SUPPLY-5	NIL
7	Engineering & Technology	DIGITAL COMMUNICATION LAB	Oscilloscope 30 MHz(10)Function Generator(7),DSO(5) Computer System(10), COMSIM Software,10 MHz Function- Modulation Generator 3 MHz Function Generator with Built in 15 MHz Frequency Counter, 2MHz Pulse Generator,	TRAINER KITS-10	TRAINER KIT REPAIRED
8	Engineering & Technology	TELECOMMUNICATION NETWORK LAB			

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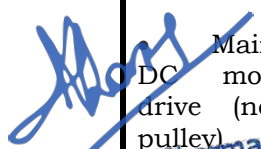
9	Engineering & Technology	COMMUNICATION CIRCUIT AND SYSTEM LAB.(ETEC-258, ETCS-355, ETIT-360, ETEC-355, ETIT-355, ETEE-355, ETEC-358, ETEC-256)	EPABX Trainer System, Transmission line trainer, ISDN Trainer, Data Conditioning and Carrier Modulation Kit(2), Data Reconditioning and Carrier Demodulation Kit(2), TRAINER KITS-22		
10	Engineering & Technology	MATLAB (ETEC-359, ETCS-357(M)	DSK - 50 DSP Kit, ADSP - 2100 EVM Board,100 MHz DSO/50 MHz Spectrum Analyzer, Computer (20), Hub, Printer, MATLAB Version 6.1.0.450 (R12.1), (20 users) Signal Processing Toolbox Version 5.1, (R12.1) (10 users), Filter Design Toolbox Version 2.1 (R12.1) (10 users), Simulink Version 4.1(R12.1) (10 users),DSP Blockset Version 4.1 (R12.1)(10 users)	-----	NIL
11	Engineering & Technology	DIGITAL SIGNAL PROCESSING LAB(ETEC-360, ETIT-356),			
12	Engineering & Technology	DIGITAL IMAGE PROCESSING LAB (ETEC-455)			
13	Engineering & Technology	CONSUMER ELECTRONICS LAB(ETIT-454)	Color TV Kit, Monochrome TV, VCR Kit, VCD\CD \MP-3kit, Intercom Kit Fax Machine,EP-150 Kit, CRO (5), Function Generator, Soldering Station, FM Stereo Trainer, Stereo Tape Recorder, VCD/ACD Trainer,DTMF Telephone Trainer, fixed dual power supply, radio trainer kit. LED TV TRAINER-2, LCD TV TRAINER-2.DSO-(3)		NIL
14	Engineering & Technology	MICROPROCESSOR SYSTEM –II LAB(ETCS-352)	Advance Microprocessor 8086 Trainer Kit (25) Micro tutor 86 (S\W),Micro tutor 51 (S\W), Star 8086 Advance MP Kit, In Circuit Emulator, MDS, Computer(10),function generator card, High resolution ADC ADAM-3968, Circuit Emulator, EM Module, Microtutor-51 Hardware Lock, Logic Analyzer, MDS,Mini programmer, PC based Counter card, In Circuit Emulator ADM, 14-computers + 6 COMPUTERS		8085 KIT REPAIRED


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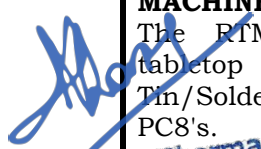
15	Engineering & Technology	OPTICAL COMMUNICATION LAB(ETEC-453)	Analog transmitter/receiver kit, digital transmitter/receiver kit, advance digital communication kit, fiber optic analog/digital link for plastic and glass fiber, fiber optic LED source, fiber optic power meter, continuity tester, ST-Connector /splice installation kit, fiber optic trainer kit, fiber optic LED,LASER, Photo Diode trainer kit, propagation/bending loss trainer kit, mux/demux TDM trainer kit.DSO(3),CRO(2),Function Generator(3)	-----	NIL
16	Engineering & Technology	MICROWAVE LAB (ETEC-352)	Microwave benches (7) includes Klystron Tube, Frequency MeterVSWR Meter, Radiation Pattern Turn Table, Gunn Power Supply, Gunn Oscillator, Magic Tee, slotted section , tunable tube, E-Plane tee, H-Plane Tea, directional coupler and all the rectangular wave guide components,2-3 GHz Microstrip kit, DSO(4),Fuction generator(5),CRO(5) 9-computers for virtual lab for direct accessing with the entire nodal center.PS-5	-----	COLLING FAN FOR KIT
17	Engineering & Technology	Research Lab	Work station, desktop, colour printer, scanner/printer/copiers, LCD projector, iball talk note. COMPUTERS-5		NIL
19	Engineering & Technology	Project Lab	Work station(2), desktop(8), colour printer(1), Scanner/printer/copiers(1), LCD projector(1), iball talk note(1). OHPC(1) Device simulator Silvaco(1) Device simulator Visual TCAD(1)		SOLDERING IRON AND COMPONENTS

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			12 Desktop 1 printer 1 LCD Projector, 5 different software. COMPUTERS-5		
19	Engineering & Technology	<u>Under MODROBS scheme we have developed the followings:</u> (a) PCB Fabrication Lab (Newly Introduced Lab) (b) Addition of software to existing VLSI Lab	Following items/equipments have been procured for the above Lab: 1. PROTO-CONTACT: - PCB Artwork Film maker: The Proto-Contact is a tabletop unit which serves as a negative making contact printer as well as an illuminated Artwork table for Circuit Artwork taping and inspection of Films and negatives. 2. PROTOCURE -2/ PCB: Curing machine (Oven): Tabletop unit for curing of liquid photo resist. Timer controlled heating system allows fast and efficient PCB curing. 3. PCB DRILLING MACHINE: A compact tabletop High speed PCB drilling machine with a Quick Change Chuck • Drill holding by precision chuck with lapped jaws. • Mains operated DC motor- Direct drive (no belt and pulley) • 3 step speed control		NIL


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		• Illumination of Work Area 4. PCB SHEARING MACHINE: Benchtop Guillotine type shearing machine to cut PCB's and Laminates. 5. ULTRA-VIOLET EXPOSURE SYSTEM (With vacuum): A rugged Double Sided exposure unit for PCB / Film exposure. Has a built-in vacuum pump and timer. Ideal for use where Plated thru hole PTH PCBs are to be fabricated. The frame and vacuum suction ensures a very high level of contact between film and laminate. 6. PHOTO RESIST DIP COATING MACHINE: The Machine is table top and compact. A single Operation unit designed for coating of laminates with Photoresist. The machine ensures uniform controlled thickness of Photoresist on copper clad. 7. ROLLER TINNING MACHINE - RTM 10 The RTM 10 is a tabletop unit for Tin/Solder coating of PCB's.		
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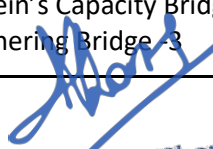

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			8. PCB Design Layout Software: - (Made in Germany) A simple but powerful tool to create layouts for single-sided and double-sided PCBs (Printed Circuit Boards). The software comes along with all functions that are necessary for board design. b. Existing VLSI Lab: HEP (Higher Education Program) HEP1 and HEP 2 Software have been added to our existing VLSI Lab. 1. Higher Education Program (HEP 1): IC Nano Meter Design Tool set consisting of Tanner S – Edit, L – Edit, T – Spice, Eldo, Questa ADMS, Nitro – SoC and Calibre. 2. Higher Education Program (HEP 2): Design, Verification & Test Tools Set consisting of: Catapult University Edition, Vista, Req Tracer, Questa(including ModelSim), Oasys-RTL, Precision Synthesis, Leonardo Spectrum ASIC, Tessent Silicon Test, System Vision.		
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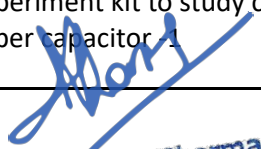

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Department: Electrical and Electronics Engineering

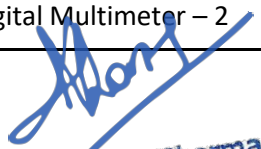
S.No.	Name of Program	Name of Laboratory	Major Equipment	List of Equipment added
1	Engineering & Technology	Control System lab	Synchro Transmitter Receiver –1 No. Control Transformer (Synchro)- 2 Potentiometer Error Detector – 1 AC Servomotor - 1 DC Motor Speed Control – 1 DC Motor Position Control – 2 AC Motor Position Control – 1 Linear System Simulator – 1 PID Electronic Controller – 2 Compensation Design System – 1 Magnetic Amplifier – 2 PC Based Analog & Digital Motor Control Teaching Set comprising of : a)DC Motor Control Module b)Command Potentiometer c)CLIO Interface Module d)System Power Data Acquisition System – 2 LVDT -2 CRO - 4 Digital Storage Oscilloscope – 2 Digital Multimeter - 4 PC - 16 LCD Projector - 1 Function Generator - 4 Printer - 1	
2	Engineering & Technology	Electrical & Electronics Measuring Instruments Lab	Multi Application Board - 2 No. Temperature Transducers Trainer – 1 Digital Multimeter – 3 Wheatstone Bridge – 2 Kelvin Bridge – 4 Anderson Bridge – 2 Owen's Bridge -2 De Sauty Bridge – 2 Hay's Bridge – 2 Maxwell Inductance Bridge – 3 CRO -1 Wein's Capacity Bridge – 1 Schering Bridge -3	


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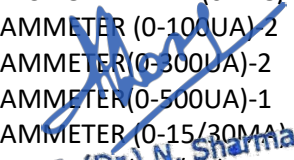
3	Engineering & Technology	Electrical & Electronics Measuring Instruments Lab	DC Power Supply – 2 Conductivity Attachment for Kelvin Bridge – 2 Galvanometer – 6 Sine Wave Oscillator – 11 Electronic Standard Cell – 2 Metal Film Resistance – 4 Air Core Inductance on Box – 3 Decade Inductance Box (Two Dials) – 4 Decade Inductance Box (Single Dial) – 1 Decade Inductance Box (4 Dials) – 1 Decade Capacitance Box(Two Dials) – 7 Decade Capacitance Box(4 Dials) – 1 Crompton Potentiometer – 2 Single & Three Phase Electromechanical and electronic type Energy Meter - 1 Measurement of phase and frequency using CRO (Lissajous pattern) – 1 Measurement of Inductance and capacitance using CRO – 1 Measurement of 3 phase power by two watt meter method using instrument transformer – 1	
4	Engineering & Technology	Utilization of electrical energy lab	Announiator system -1 Decade resistance -3 Decade Capacitor -1 Digital luxmeter -1 Experiment set up for C.T -1 Experiment set up for P.T -1 PLC trainer kit -1 PLC trainer application -5 Phase shifting transformer -1 Wattmeter (5/10A ,75/150/300V) -2 Wattmeter (1/2A, 150,300,600V) -1 Pick and place stand -1 Water tank -1 Measurement of light intensity of different lamp and draw the polar curve -2 Multimeter -1 Experiment setup for characteristics of welding transformer -1 Experiment set up for study of braking scheme of traction motor -1 Experiment setup for to study Resistance heating water load -1 Experiment kit to study charging discharging of super capacitor -1	Tachometer -1


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5	Engineering & Technology	Lab view lab/EEC Lab	NI –ELVIS KIT`-5 LABVIEW SOFTWARE -1 COMPUTER SYSTEMS -19 PRINTER -1 LCD PROJECTOR - 2	
6	Engineering & Technology	Power System Lab	SETUP OF TRANSFORMER OIL TESTING-2 SETUP OF TRANSMISSION LINE ABCD PARAMETERS-1 SETUP OF FERRENTI EFFECT IN TRANSMISSION LINE-2 EARTH RESISTANCE TESTER-2 SETUP OF LINE TO LINE FAULT-1 SETUP OF SINGLE LINE TO GROUND FAULT-2 SETUP OF PERCENTAGE BIASED DIFFERENTIAL RELAY-1 SETUP OF INSTANTANEOUS OVER CURRENT RELAY-1 SETUP OF OVER VOLTAGE RELAY-1 SETUP OF CHARACTERISTICS OF MCB-2 SETUP OF CHARACTERISTICS OF FUSE AND THERMAL RELAY-2 SETUP OF IDMT EARTH FAULT RELAY-2 3 PHASE TRANSFORMER-2 MULTIMETER-2 CLAMPMETER-2 ETAP PC-1 CABLE FAULT LOCATOR-1 RHEOSTATE-2 GALVANOMETER-1	
7	Engineering & Technology	Computational Methods lab	PC(PERSONAL COMPUTER) - 23	
8	Engineering & Technology	Sensor & Transducer Lab	Electromagnetic Pick – 1 Optical Transducer – 1 LVDT Trainer – 1 Photoelectric Pickup – 1 Stroboscope -1 Strain Gauge Trainer – 1 Pressure Transducer Trainer – 1 Water Level Measurement Trainer – 1 Temperature Transducer – 1 Distance Measurement Trainer – 1 Digital Multimeter – 2	


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9	Engineering & Technology	Electrical Workshop	Clamp Meter -2 D.O.L starter (Single phase) -2 ELCB (63 Amp/30mp) -5 Hammer -5 Multimeter -10 MCB (S.p) ,(6mp/32Amp) – 5 MCB (D.P) ,(6mp/32Amp) -5 MCB (T.P) ,(10Amp/32Amp) -5 MCB (T.P) ,(63Amp) – 5 MCB (F.P) ,(10 Amp/32 Amp)-5 MCB (F.P) ,(63 Amp) -5 Megger -2 TOOLS Drill Machine -2 Screw Driver Set -5 Wire Stripper And Cutter – 10 Plier -5 Nose cutter -2 File (Rati) - 1	
10	Engineering & Technology	CIRCUIT AND SYSTEMS LAB	SIGNAL GENERATOR COUNTER – 1 SPECTRUM ANALYZER-1 A.F.MILLI AMETER(0-5MA)-1 A.C.MILLI VOLTMETR-3 I.C.REGULATOR DC POWER SUPPLY/SEMICONDUCTOR APPLICATION 302510-2 DC POWER SUPPLY 220V,20A-2 POWER SUPPLY TRINITY-8 TRIPLE POWER SUPPLY-5 MONOPOWER SUPPLY SCIENTIFIC 30V,2A-5 FUNCTION GENERATOR-2 DIGITAL MULTIMETER-3 MULTIMETER RISHABH-4 MULTIMETER UNITY-4 MULTIMETER TRINITY YELLOW-6 MULTIMETER MAST TECH-4 SOLID STATE AC MILLI VOLTMETER-2 AUDIO AMPLIFIER-1 AMMETER(0-3A)-1 AMMETER(0-10/20A) -2 AMMETER(0-1/2A)-2 VOLTMETER(0-3V)-1 VOLTMETER(0-15/30V)-15 VOLTMETER(0-250V)-2 MI VOLTMETER(0-125/250)-6 MC VOLTMETER (0-125/250V)-2 AMMETER (0-100UA) 2 AMMETER(0-300UA)-2 AMMETER(0-500UA)-1 AMMETER (0-15/30MA) 14 AMMETER(0-1/2A)-2 AMMETER(0-5/10A)-2 AMMETER(0-15/30A)-10	TO STUDY OF Z,Y,T PARAMETERS (TWO PORT NETWORK) - 04 TO DESIGN INTERCONNECTION OF Z,Y,T PARAMETER GIVEN TWO PORT NETWORK – 03 TO DETERMINE H PARAMETERS AND ITS INTERCONNECTION OF GIVEN TWO PORT – 01 TO STUDY THE FREQUENCY RESPONSE OF DIFFERENT FILTER CIRCUIT – 02 TO STUDY TRANSIENT RESPONSE OF SERIES RLC CIRCUIT FOR DIFFERENT TYPES OF WAVE FORM ON CRO – 02 DIGITAL STORAGE OSCILLOSCOPE - 02


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			TRAINING BOARD PASSIVE FILTER-2 FIXED INDUCTANCE 20UA,6A-3 FIXED INDUCTANCE (10UA,6A) -2 CONDENSER 100MFD-2 CONDENSER 150MFD-2 ADAPTOR 6V-2 SOLDERING IRON-3 SOLDERING IRON STAND-5 TRANSFORMER(6-0-6)-1 TRANSFORMER (12-0-6)1 BREAD BOARD-10 C.R.O.DEMONSTRATOR TYPE -1 C.R.O. SCIENTIFIC 30Mhz—4 C.R.O.CADDO SCIENTIFIC 25Mhz-4 C.R.O.PROBE-1 FOURIER ANALYSIS KIT OMEGA-4 FOURIER ANALYSIS KIT SQUARE/CLIPPED WAVE-2 TELLEGAN THEOREM KIT NISCO-4 TELLEGAN THROREM KIT TRINITY-3 RECIPROCITY TRINITY-2 CASCADE TWO PORT NETWORK TRINITY-8 CASCADE TEO PORT N/W NISCO-3 THEVRNIN AND NORTON THEOREM TRINITY-3 SUPERPOSITION THEOREM TRINITY-3 MAXIMUM POWER TRANSFER THEOREM TRINITY-3 MILLIMAN THEOREM KIT NISCO-2 TRANISIENT RESPONSE OF RLC CIRCUIT NISCO-2 DC POWER SUPPLY (02/98)-2 DIGITAL STORAGE OSCILLOSCOPE RAJAT PREMIER-4 TRANSIENT RESPONSE OF RLC CIRCUIT RAJAT PRMIER-4 CASCADE TWO PORT NETWORK RAJAT PREMIER-8 FREQ RESPONSE OF DIFFERENT FILTER-4	
11	Engineering & Technology	Electrical Machines Lab	Hysteresis Motor - 2 No. Universal Motor - 1 Single Phase Induction Motor with Capacitor 0.75 KW, 1 HP, 1500 RPM Six Terminal - 2 Single Phase Induction Motor with Capacitor 1 HP, 1500 RPM Four Terminal - 1 Single Phase Induction Motor 1 HP, 1500 RPM Coupled with Shunt Generator 1 KW, 1500 RPM - 2 Three Phase Induction Motor Slip Ring Type, 3.7 KW, 5HP, 1500 RPM, 440V Coupled with DC Shunt Generator 3.75 KW, 1500 RPM, 230V, 15 Amp - 2 Synchronous Motor 3 Phase 5 HP, 1500 RPM Coupled with DC Shunt Generator 3 KW, 1500 RPM Coupled with Exciter Shunt Wound 0.75 KW, 1500 RPM - 1 3 Phase Squirrel Cage Induction Motor 1 HP,	Rheostat 1000 ohm, 1.5 Amp – 3 No. Rheostat 300 ohm, 1.5 Amp – 6 No. Wattmeter portable, LPF, 150/300V, 5/10 Amp – 1 No. Wattmeter portable, UPF, 300/600V, 10/20 Amp – 1 No. Rheostat 1000 ohm, 1.5 Amp – 3 No. Rheostat 300 ohm, 1.5 Amp – 6 No. Wattmeter

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		440V, 960 RPM, 6 Terminal - 2 3 Phase Squirrel Cage Induction Motor with Pulley Spring Balance 3 HP, 1440 RPM, 415 V, 4 Amp - 1 Schrage Motor 7.5 HP, 11.5 Amp, 400 V, 600 – 2100 RPM - 1 DC Shunt wound Motor with mechanical braking 5 HP, 220 V, 1500 RPM - 2 DC Shunt wound motor 1 HP, 4 Amp, 1500 RPM, 220 V - 2 DC Shunt wound Motor 2.25 KW, 220 V, 1500 RPM Coupled with DC Shunt Generator 3 KW, 1500 RPM, 220 V, 8 Amp - 2 DC Shunt Motor 5 HP, 1500 RPM coupled with Induction Generator 5 KW, 1440 RPM - 1 DC Shunt wound Motor 5 HP, 220 V, 1500 RPM coupled with 3 Phase Alternator 3 KW, 1500 RPM, 415 V - 1 DC Shunt Motor 1 KW, 1500 RPM coupled with 3 Phase Alternator n3 KW, 1500 RPM, 415 V - 1 DC Shunt Motor 1 KW, 220 V, 1500 RPM Coupled 3 Phase Alternator 400 V - 1 DC Shunt wound Motor 5 HP, 220 V, 1500 RPM coupled with 3 Phase Alternator 440 V, 3 KVA, 1500 RPM with one Control Panel - 2 DC Shunt wound Motor 5 HP, 220 V coupled with 3 Phase Alternator 440 V, 3 KVA With One Control Panel - 1 Stepper Motor Training Kit - 2 Single Phase Transformer 2 KVA, 230/230 V with 50% & 86.6% tapings on the secondary side - 6 Single Phase Transformer 2 KVA, 220/110 V, 50Hz with centre tap on the secondary side - 6 Three Phase Transformer 3 KVA, 400/220 V 50Hz with centre tapping on the secondary side - 3 3 Phase to 2 Phase Conversion Transformer 3KVA,400/220 V, 50 HZ with centre tapping on the secondary side - 2 Single Phase Variac Input – 240 V, Output -- 0- 270 V, 15 AMP – 5 3 Phase Variac 415 V, output Current – 15 Amp per line - 3 DC Rectifier Input – 230 V, Output – 0-270 V DC, 10 Amp - 1 Capacitive Load 3 Phase, 415 V, 0-10 Amp - 1 Inductive Load 3 Phase 415 V, 0-10 Amp – 1 Single Phase Loading Rheostat 220V, 2.5 KW - 3 Three Phase Loading Rheostat 440 V, 5.1 KW - 2 Star Delta Starter - 2 DOL Starter - 2 DC 3 Point Starter, 220 V – 6 Tachometer Digital - 2	portable,LPF, 150/300V, 5/10 Amp – 1 No. Wattmeter portable,UPF, 300/600V, 10/20 Amp – 1 No. Voltmeter(AC) 0- 300/600V- 2 No. Tachometer Digital, Laser Type - 1 Voltmeter(AC) 0- 300/600V- 2 No. Tachometer Digital, Laser Type - 1
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			Tachometer Hand Type - 1 Rheostat 50 ohm , 5 Amp - 3 Rheostat 100 ohm , 5 Amp - 1 Rheostat 1,1 K ohm , 1.2 Amp - 2 Rheostat 1000 ohm , 1.2 Amp - 2 Rheostat 300 ohm , 1.5 Amp - 2 Rheostat 10 ohm , 10 Amp - 3 Rheostat 320 ohm , 1.6 Amp - 1 Single Phase Portable Wattmeter 300/600 V, 10/20 Amp - 6 Single Phase Portable Wattmeter Electrodynamometer type 150/300 V, 5/10 Amp - 2 Single Phase Portable Wattmeter 250/500 V, 1/2 Amp - 2 Three Phase Portable Wattmeter 300/600 V, 10/20 Amp - 1 Digital Multimeter – 5 Voltmeter AC, MI Type , 0-150/300 V – 8 Voltmeter AC, MI Type , 0-300/600 V – 8 Voltmeter AC, MI Type , 0-75/150 V – 4 Ammeter AC, MI Type, 0-1 Amp - 3 Ammeter AC, MI Type, 0-2 Amp – 2 Ammeter AC, MI Type, 0-5/10 Amp – 8 Ammeter AC, MI Type, 0-10/20 Amp – 5 Ammeter AC, MI Type, 0-15/30 Amp – 2 Milliammeter AC, MI Type, 0-500 m Amp - 3 Milliammeter AC, MI Type, 0-750m Amp – 2 Voltmeter DC, Permanent Magnet Moving Coil Type 0 -30 V - 1 Voltmeter DC, Permanent Magnet Moving Coil Type 0 -150/300 V - 2 Voltmeter DC, Permanent Magnet Moving Coil Type 0 -300 V - 4 Voltmeter DC, Permanent Magnet Moving Coil Type 0 -250 V - 12 Ammeter DC, Permanent Magnet Moving Coil Type 0 – 1 Amp – 8 Ammeter DC, Permanent Magnet Moving Coil Type 0 – 2 Amp – 8 Ammeter DC, Permanent Magnet Moving Coil Type 0 – 5 Amp – 9 Ammeter DC, Permanent Magnet Moving Coil Type 0 – 10 Amp – 6	
12	Engineering & Technology	Electrical Science Lab	Ammeter(DC)(0-15/30mA) =01Nos, Ammeter(DC)(0-500mA) =01Nos, Ammeter(DC)(0-1A) =01Nos, Ammeter(AC)(0-1A) =05Nos, Ammeter(DC)(0-2A) =02Nos, Ammeter(AC)(0-2A) =03Nos, Ammeter(DC)(0-1/2A) =03Nos, Ammeter(AC)(0-1/2A) =02Nos, Ammeter(AC)(0-5A) =03Nos,	

		Ammeter(AC)(0-5/10A) =17Nos, Ammeter(DC)(0-10/20A) =03Nos, Ammeter(AC)(0-10/20A) =04Nos, Voltmeter(AC) (0-30V)= 02 Nos Voltmeter(AC) (0-75V)= 01 Nos Voltmeter(AC) (0-75/150V) = 02 Nos, Voltmeter(AC) (0-50/100V) =01 Nos. Voltmeter(AC)(0-150V)=02 Nos Voltmeter(AC)(0-250V)=01 Nos Voltmeter(AC) (0-125/250V) = 14 Nos, Voltmeter(DC) (0-125/250V) = 01Nos, Voltmeter(DC)(0-150/300V) = 02 Nos, Voltmeter(AC) (0-150/300V) = 07 Nos, Voltmeter(AC)(0-300/600V)= 01 Nos., Wattmeter (150/300/600V, 5/10A)= 12 Nos, Wattmeter(75V, 10/20A)= 02Nos, Wattmeter(75V, 5/10A)= 01Nos, Wattmeter(0-75/150/300V, 1/2A)=01 Nos, Wattmeter(0-150/300V, 1/2A)= 01Nos, Wattmeter(0-250V, 5/10A)= 01Nos, Wattmeter(0-150/300/600V, 10/20A)= 01Nos, Variac(Single Phase)(0-250v,10A)=17 Nos, Resistive Load(Single Phase)(3.5Kw,250V) =07 Nos, Inductive Load(Single Phase)(5A,250V) =05Nos, Variac(Three Phase)(0-470V,10A) =03Nos, Resistive Load(Three Phase)(5.1Kw, 440V) =03Nos, DC Supply(0-270v)=02Nos, Megger(160rpm)=01 Nos, Energy Meter(Single Phase) =04Nos, Transformer(Single Phase)(2KVA, PRIM 220V, SEC. 110V, 50Hz) =04Nos, Transformer(Single Phase)(1KVA, PRIM 220V, SEC. 110V, 50Hz) =02Nos, Three phase Induction motor=03Nos, Tachometer=02Nos, Stopwatch=02Nos, Superposition theorem kit=05Nos, Thevenins theorem kit=05Nos, Reciprocity theorem kit =05 Nos Maximum power transfer theorem kit=05 Nos Millimens theorem=02Nos, Rheostat=27Nos, Staircase wiring kit=03Nos, DC Shunt Motor(12A,1500RPM)=03Nos, Digital multimeter=06 Nos. Three phase Induction motor=03Nos, Digital multimeter=02 Nos	
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13	Engineering & Technology	ELECTRIC DRIVE LAB	SPEED CONTROL OF DC MOTOR-1 MOSFET BASED CHOPPER MOTOR –CONTROLLER-1 SPEED CONTROL OF DC MOTOR USING MICROCONTROLLER-1 3 PHASE FULLY CONTROLLED BRIDGE CONVERTER-1 ROTOR RESISTANCE VARIATION FOR SPEED CONTROL OF SLIP RING-1 INDUCTION MOTOR -1 SPEED CONTROL USING MICROCONTROLLER-1 SINGLE PHASE FULLY CONTROLLED BRIDGE CONVERTER-1 SPEED CONTROL OF SINGLE PHASE IM USING MICROCONTROLLER -1 BUSHLES DC MOTOR DRIVE-1 DC DRIVES TRAINER-1 VECTOR CONTROLLED INDUCTION MOTOR-1	
14	Engineering & Technology	POWER ELECTRONICS LAB	SCR Characteristics – 01 UJT characteristics-02 no. TRIAC-01 Cycloconverter-02 Pwm inverter-01 H/w converter-01, Full wave converter-01 Scr commutation techniques-1 John's chopper-01, Morgan chopper-01 C-chopper-01 Buckboost converter-01 Scr rectifier circuit-01 Mosfet charact.-01 Multimeter-03, CRO-05	To study characteristics of TRIAC – 1 To study characteristics of IGBT – 1 To study Triggering Circuit of R & RC & UJT circuit


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Program Wise Lab Details

Department: Mechanical and Automation Engineering/ Mechanical Engineering

S.No.	Name of Program	Name of Laboratory	Major Equipment	List of Equipment added
1	Engineering & Technology	Engg. Mechanics Lab	Universal Force Table, Simple supported Beam Apparatus, Friction on inclined Plane, Worm & Worm wheel Apparatus, Winch Crab, Jib Crane, Simple & Compound wheel and Axle, Screw Jack, Bell Crank Lever, Digital Electronic Weighing Machines.	
2	Engineering & Technology	Strength of Material Lab	Universal Testing Machine, Torsion Testing Machine, Rockwell & Brinell Hardness Testing Machine, Izod & Charpy Impact Testing Machine, Fatigue Testing Machine, Creep Testing machine, Flexural Testing Machine, Buckling of struts, Strain measurement apparatus. Bernoulli's Theorem Apparatus, Orifice meter Apparatus, venturimeter Apparatus, Francis Turbine Test Rig, Pelton Turbine Test Rig, Centrifugal Pump Apparatus, Impact of Jet on Vanes Apparatus. Meta Centric Height Apparatus Reynold's Apparatus Darcy's Law Apparatus Pipe Friction Apparatus Determination of losses in Sudden Enlargement Apparatus	
3	Engineering & Technology	Computer Lab (Room no 214)	20 PC. Turbo C++ Software, Tora software, MATLAB -10.	
4	Engineering & Technology	Drawing Hall - II/Machine Drawing	Models of Cotter Joint, Knuckle Joint, Connecting Rod, Crane Hook, gear box, Drawing Boards, Models of couplings	


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5	Engineering & Technology	Theory of Machines Lab	Static and dynamic balancing apparatus, Gyroscope apparatus, Cam analysis apparatus, Universal Governor, Undamped vibration of spring apparatus, Cam and follower models, Gear trains, Four speed automobile gear box, 4-stroke petrol and diesel engine models, 2-stroke petrol and diesel engine models, Hydraulic brake model, Centrifugal clutch model, Reciprocating engine mechanism, Oscillating cylinder mechanism, Whithworth quick return mechanism, Pentograph mechanism, 4-bar link mechanism, Linkage mechanism, Crank shaft and connecting rod, Gas turbine model, Tachometer, Belt drive model, Trifiller suspension, Bifiller suspension, Epicyclic gear train and holding torque apparatus, Corioli's acceleration apparatus, Balancing of Reciprocating Masses Energy of Flywheel Apparatus Whirling of Shaft Apparatus Universal Vibration Testing Machine	
6	Engineering & Technology	Manufacturing Machines and MCTD Lab	Lathe machine tool, Milling machine tool (Horizontal, Vertical), Shaper machine tool, Bench Grinder, Surface Grinder, Power Hacksaw, Hobbing Machine, Dynamometer, Lathe Accessories, Ordinary Microscope	
7	Engineering & Technology	Metrology Lab.	Tool maker Microscope, profile projector, floating carriage micrometer, Roughness Tester, surface plate, various types of gauges(slip gauges, ring gauges, plug gauges etc.), spirit level, sine bar. HTC Ultrasonic Distance meter, Thermo Hygrometer Clock (Humidity measurement instrument), 3-Computer Monitor, Keyboards, Mouse, Computer Tables, Planimeter	
8	Engineering & Technology	Room No 235 (Prog. IV & V Lab. (Pro-E) & CAD Lab)	20 PC + 5 Workstations Computers HP 202 G2 MT. Pro- wild fire -5.0 (50 Licenses); Pro-E 2001 software – 150 Licenses Computer Cabinet (CPU), 55-Computer Monitor, Keyboards, Mouse, UPS, Computer Tables Printer, LCD Projector, Networking Switch (24 Port)	
9	Engineering & Technology	Automobile Engg Lab	Cut section of Maruti 800 Gear box (Transaxle) Petrol engine of Maruti Esteam car, Petrol and diesel engine models, Solex carburetor, Differential gear box, Steering system, Crank Shaft, Valves etc. Cut Section Working Model of Hydraulic Power Brake systems. Cut Section Working Model of Centrifugal clutch. Cut Section Working Model of One way free wheel clutch	
10	Engineering &	Room no 214 (Also	20 PC. -Turbo C++ Software, Tora software, MATLAB -10.	Cube Orange with ADS B Carrier Board/

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	Technology	Mechatronics Lab)	Electro pneumatic sequence trainer, LAD SIM software, pneumatic sequel trainer. PLC with Experimental modules a) Lift b) Pick & Place Robot Arm c) Start Delta Control for 3 Phase Modules, d) Reaction Vessel, e) Sequential Switching of Motors, f) Seven Segment display, 8051 Development Kit with Software, Multi Application Board, PLC (Allenbradley 10 I/O – 18 no. with connection kits); 8052 microcontroller kits (10 numbers) and software, 5 Training kits with Allenbradley Microcontroller (3 digital & 2 analog) , HMI, ac drives and ac motors, 5 license Scada software. A centralized UPS has been installed	Here 3 GNSS
11	Engineering & Technology	Refrigeration and Air-conditioning Lab	3 experiments test rigs with full instrumentations (Refrigeration Test Rig, Air-conditioning Test Rig, Ice Candy Ice Plant, Sectional Model of Compressors, All Air Conditioning Test Rig,	Refrigeration and air-conditioning electrical accessories and controlling systems trainer kit
12	Engineering & Technology	Room No 212 (Also CAM -Flexible Manufacturing /AMM Lab)	3 experiments test rigs with full instrumentations (Refrigeration Test Rig, Air-conditioning Test Rig, Ice Candy Ice Plant, Sectional Model of Compressors, All Air Conditioning Test Rig, Cogeneration Test rig, Electrolux refrigerator, Refrigerant charging tools. Vapor Compression Experimental Test Rig using Ejector as an Expansion Device Cascade Refrigeration System for Low Temperature Application House Hold Refrigeration System Assisted with Two Phase Ejector Thermal camera Refrigerant leakage detector Air conditioner cum Air Sterilizer Double skin AHU Psychrometric Processes Vapour Compression System Ice Slurry system LPG Cooling system	Refrigeration and air-conditioning electrical accessories and controlling systems trainer kit Vapor compression refrigeration system with dedicated mechanical subcooling Vapor compression refrigeration system with integrated mechanical subcooling lot based air conditioning trainer assisted with four-way reversing valve
13	Engineering & Technology	Heat Transfer and IC Engine Lab	Guarded Hot plate apparatus, Metal rod apparatus, Pin-fin apparatus, Emissivity apparatus, Parallel and counter flow Heat exchanger apparatus, Forced convection apparatus, Cut section of 4 Stroke CI Engine Model, Diesel Engine test rig, Petrol Engine test rig, Cut section of 4 Stroke SI Engine Model, Gas turbine Model, Morse test rig of Petrol Engine, Stefan Boltzmann's Apparatus Composite Wall apparatus	Four stroke diesel engine with Eddy current dynamometer test rig Trainer model for 'Boiler accessories with working system of steam engine and separating cum throttling calorimeter' Model of 'Babcock and Wilcox boiler'

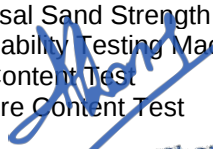
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14	Engineering & Technology	Quality Control & Quality Assurance Lab	Guarded Hot plate apparatus Metal rod apparatus Pin-fin apparatus Emissivity apparatus Parallel and counter flow Heat exchanger apparatus Forced convection apparatus Cut section of 4 Stroke CI Engine Model Diesel Engine test rig Petrol Engine test rig Cut section of 4 Stroke SI Engine Model Gas turbine Model Morse test rig of Petrol Engine Stefan Boltzmann's Apparatus Composite Wall Apparatus Shewharts Normal Bowl apparatus Unknown distribution Bowl apparatus 2 % AOQL Plan Balls apparatus, p & np chart apparatus c' chart apparatus vernier calipers, weighing machines and trays (6 numbers)	
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Workshop

S.No.	Name of Program	Name of Laboratory	Major Equipment	List of Equipment added
1	Engineering & Technology	Workshop Practice lab 1	Gas Welding Equipment, Arc welding Equipment, MIG Welding Equipment, Spot welding Equipment. Muffle furnace, Copes & Drags & related accessories, Hand shearing equipment, Stakes, Hammers, Hack-Saws, Files, Vices Drilling Machine and all the other tools, MIG Welding Equipment, Muffle furnace, TIG Welding Equipment, Plasma Welding Equipment Grain Distribution Test Universal Sand Strength Testing Machine Permeability Testing Machine Clay Content Test Moisture Content Test	Foundry sand Hardness tester
2	Engineering & Technology	Workshop Practice lab 2	Gas Welding Equipment, Arc welding Equipment, MIG Welding Equipment, Spot welding Equipment. Muffle furnace, Copes & Drags & related accessories, Hand shearing equipment, Stakes, Hammers, Hack-Saws, Files, Vices Drilling Machine and all the other tools, MIG Welding Equipment, Muffle furnace, TIG Welding Equipment, Plasma Welding Equipment Grain Distribution Test Universal Sand Strength Testing Machine Permeability Testing Machine Clay Content Test Moisture Content Test	


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3	Engineering & Technology	Workshop Practice lab 3	Gas Welding Equipment, Arc welding Equipment, MIG Welding Equipment, Spot welding Equipment. Muffle furnace, Copes & Drags & related accessories, Hand shearing equipment, Stakes, Hammers, Hack-Saws, Files, Vices Drilling Machine and all the other tools, MIG Welding Equipment, Muffle furnace, TIG Welding Equipment, Plasma Welding Equipment Grain Distribution Test Universal Sand Strength Testing Machine Permeability Testing Machine Clay Content Test Moisture Content Test	
4	Engineering & Technology	Workshop Practice lab 4	Gas Welding Equipment, Arc welding Equipment, MIG Welding Equipment, Spot welding Equipment. Muffle furnace, Copes & Drags & related accessories, Hand shearing equipment, Stakes, Hammers, Hack-Saws, Files, Vices Drilling Machine and all the other tools, MIG Welding Equipment, Muffle furnace, TIG Welding Equipment, Plasma Welding Equipment Grain Distribution Test Universal Sand Strength Testing Machine Permeability Testing Machine Clay Content Test Moisture Content Test	
5	Engineering & Technology	Workshop Practice lab 5	Gas Welding Equipment, Arc welding Equipment, MIG Welding Equipment, Spot welding Equipment. Muffle furnace, Copes & Drags & related accessories, Hand shearing equipment, Stakes, Hammers, Hack-Saws, Files, Vices Drilling Machine and all the other tools, MIG Welding Equipment, Muffle furnace, TIG Welding Equipment, Plasma Welding Equipment Grain Distribution Test Universal Sand Strength Testing Machine Permeability Testing Machine Clay Content Test Moisture Content Test	Foundry sand Hardness tester


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Department: Applied Science

S.No.	Name of Program	Name of Laboratory	Major Equipment	List of Equipment added during previous year	List of Equipment added
1	Engineering & Technology	Applied Physics Lab (ETPH-151/152)	Acceleration due to gravity setup. (Bar Pendulum Setup). Momentum of Inertia. - Flywheel. A.C. Frequency, Vibration string Method. (Electric Vibration) Newton's Rings Apparatus. Polarimeter Fresnel Bi prism Telescope. Microscope Optical fiber. Katter's Pendulum Melde's set up J.J. Thomson setup for e/m of electron. Carry Foster's Bridge. Potentiometer (10 wires) Lee's Disk setup Thermocouple setup. Elastic constant of liquid measurement setup. Oscilloscope- 20 MHz. Signal Generator (Sine, Triangular & Square wave) Hall effect apparatus Planks' Constant Measurement apparatus. He- Ne Laser Four- Probe Apparatus Malus Law Set up.		


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2	Engineering & Technology	Applied Chemistry Lab.- I & II (ETCH-161 & ETEN-160)	Digital Ph Meter (162-R) Digital Conductivity Metre (215-R) Electrical Balance (Single Pan, Varbal) Electrical Disc Balance Mx-RADY, L.C=0.1gm Electrical Disc Balance ViBRA, L.C=0.001gm Electrical Disc Balance Citizen Lc.01 g. Magnetic Stirrer Melting Point Appratus Oven (12"x12"x12") Oven (14"x14"x14"=43Lit.) UV Spectrophotometer (Labtronics, Single Beam) UV Spectrophotometer (Labtronics, Single Beam) Digital Potential Meter Deionizer Plant MAGANETIC STIRRER MECHANICAL STIRRER		
3	Engineering & Technology	Communication and Skill Lab (ETCH-111/114)/Maths Lab	35, Computers, Language Lab. Software/MAT LAB		
4	Engineering & Technology	Communication and Skill Lab (ETCH-111/114)/Maths Lab	35, Computers, Language Lab. Software/MAT LAB		
5	Engineering & Technology	Communication and Skill Lab (ETCH-341/342)/Maths Lab	35, Computers, Language Lab. Software/MAT LAB		
6	Engineering & Technology	Communication and Skill Lab (ETCH-341/342)/Maths Lab	35, Computers, Language Lab. Software/MAT LAB		


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Department: Master of Business Administration & Bachelor of Business Administration

S.No.	Name of Program	Name of Laboratory	Major Equipment	List of Equipment added during previous year	List of Equipment added
1	Management	ITM Lab (MS-117) DBMS Lab (MS-243)	63 PC - Intel i3-600@3.70, RAM 8GB RAM, 500GB HDD / 11th Gen Intel i5-11400@2.60Ghz, 8GB RAM, 1 TB HDD		
2	Management	BA Lab (MS-265) ITAB Lab (BBA-111) BRM Lab (BBA-213)	63 PC - Intel i3-600@3.70, RAM 8GB RAM, 500GB HDD / 11th Gen Intel i5-11400@2.60Ghz, 8GB RAM, 1 TB HDD		


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