

Laboratory and Workshop

List of Major Equipment/Facilities in each Laboratory/Workshop

List of Experimental Setup in each Laboratory/Workshop

S.No	Programme Name	Department	Is it Research Lab for PG Course?	Name of the Laboratory	Lab / Major Equipments
1	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Y	3D DESIGN LABS	Solidworks Ansys
2	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	ADVANCE REMOTE SENSING, GIS AND GEOSPATIAL MODELING LAB	Arc GIS, ENVI, Matlab, QGIS
3	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	ADVANCED WIRELESS NETWORKS	NI ELVIS II + Basic
4	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Y	AMRITA-KEYSIGHT ADVANCED WIRELESS COMMUNICATIONS LAB	VECTOR NETWORK ANALYZER, EXG VECTOR SIGNAL GENERATOR, EXA Signal ANALYZER, FIELD FOX COMB ANALYZER,
5	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	BIG DATA RESEARCH LAB	Power Edge, Laptops, Computers, Servers
6	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	CISCO LAB	Computers, Network switches, Network items and others
7	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER LAB 1	Computers, Network switches, Network items and others
8	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER LAB 2	Computers, Network switches, Network items and others
9	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER LAB II	Network Items and Others
10	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER LABS - PG	HP Compaq 3330 Pro MT PC
11	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER LABS COMMON	HP Compaq 6200 Pro MT PC
12	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER NETWORKS LAB	Power Vault (TM) md1200 Disk Storage Enclosure, 2U
13	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER SCIENCE LAB	Optiplex 3010 MT N-Series Base
14	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	CRYPTOGRAPHIC LAB	Power Vault Rack mount tape library, Computers
15	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	CYBER SECURITY LAB	Dell™ powerEdge™ R510 Rack Mount Server x8 Chasis HotPlug SERVER
16	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	DIGITAL SIGNAL PROCESSING	Dell Power Edge (TM) R515 Rack Mount Server
17	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	DISTRIBUTED NETWORKS AND ALGORITHMS	Power Vault TL 2000 Rack Moun Tape Library with 1xLTO% SAS Drive
18	ENGINEERING AND	COMPUTER SCIENCE	N	EPABX ROOM	MD 110 EPABX

	TECHNOLOGY	AND ENGINEERING			
19	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	GEODESY LAB	DGPS, Total station, Drones
20	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Y	GEOTECHNICAL LAB	ERT, Water data logger, soil testing machine
21	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Y	GIS LAB	ArcGIS, ENVI software
22	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	INTERNET LAB	
23	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	IOT ENABLING AND SECURITY RESEARCH LAB	Servers, Workststion, Switches, Printers, Computers, Laptops etc
24	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	LANDSLIDE SIMULATION LAB	Landslide Simulator testbed, Honda soil compactor
25	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	MULTIMEDIA LAB	Digital Camcorder
26	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	NETWORK OPERATION CENTRE	Power Edge R910 Rack Mount Server Radware Linkproof 108 Dell™ Power Edge™ R810 Rack Mount Server
27	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	NETWORK SECURITY LAB	PowerEdge R520, PowerEdge R720 Computers
28	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	NETWORKING LAB	Palo Alto Networks PA -500 Lab Unit
29	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	OPERATING SYSTEMS LAB	Computers
30	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	PG LAB 1	Lay out Kint mentor graphics software
31	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	PG LAB 2	Network items and other
32	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	RESEARCH ALB	PADS Layout 225 Kit mentor graphics Software (9,54,180),235MHz State, 512K Memory Depth (7,50,000),
33	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	RESEARCH PG	Semi automatic pick and place system 220 v for standard and fine pitch components
34	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	SECURITY IN WIRELESS NETWORKS	NI PXIe National Instruments 3 pieces
35	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Y	SMART ENERGY SYSTEMS LAB	Schneider and Maxim Smart Meters
36	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Y	SOPHOS NETWORK SECURITY LAB	Cyberoam CR100ING Unified Threat Management appliances x 4
37	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	SUSTAINABLE COMPUTING LAB	Workstations, SourceMeter, ChipWhisperer, Arduino and Raspberry PI boards, Spartan 6 FPGA
38	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	WINSOC LAB	
39	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	WIRELESS COMMUNICATIONS	Emona DATEx Telecommunication Board for ELVIS
40	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Y	WIRELESS MULTIMEDIA LAB	Smart Board, Xbox Kinect, DJI Mavic Pro drone, DJI Tello drone

41	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	ELECTRICAL MACHINES LAB	Rectifier ,DC Shunt Motor 7.5 hp coupled to 3 ph 5 KVA Alternator,3 phase variable Inductive load,MG
42	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	RESEARCH LAB	Experimental setup for analysing communication protocols such as USART,I2C,SPI and CAN bus communica
43	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	ELECTRICAL WORKSHOP	pcb manufacturing set up,LCR Meter
44	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	RESEARCH AND COMPUTATION LAB1	Programmable load
45	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	Y	RESEARCH AND COMPUTATION LAB	Programmable Load, Proteus 8, Microchip MPLab MINIDI 8.2, LT Spice,MATLAB
46	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	POWER SYSTEMS AND SIMULATION LAB	Relay Panel, Mipower Simulation Software package,ETAP Software,PSCAD/EMTDC Software,Bucholtz Relay
47	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	POWER SYSTEM LAB	COMPUTERS, NETWORK SWITCH, NETWORK ITEMS AND OTHERS
48	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	POWER ELECTRONICS & ELECTRICAL DRIVES LAB	Power analyser, four channel DSO, Programmable dc power supply, Electronics load, PMSM Motor control
49	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	EQUIPMENT REPAIR	four channel DSO, Function Generator, 10A Power Supply.
50	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	ENERGY ENGINEERING LAB	Digital Oscilloscope,Electronics Load,3 Phase IGBT Inverter, Power Quality and Energy Analyser
51	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	EMBEDDED SYSTEMS AND ROBOTICS LAB	PIC DVB with PICkit2Programmer,ARM processor embed prototyping kit,DsPIC Demo board,c2000 Launch Pad
52	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	CONTROL & AUTOMATIONLAB	Temperature Measurement Trainer, Level Control Trainer (SCADA),Microcontroller Based Stepper Motor
53	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	CONTROL & AUTOMATION LAB	Level Control trainer,Quanser Equipment,Quanser Qbot-2,NI Multisim software 14.1
54	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	EMBEDDED SYSTEMS & ROBOTICS LAB	TPS2013B Oscilloscope,3 phase 4 leg semikron IGBT based Inverter,Four leg IGBT based VSI
55	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	ELECTRICAL MEASUREMENTS LAB	National Instrument USB DAQ Device, NI Smart Camera, 1Phase Energy Meter, 3Phase Energy Meter
56	ENGINEERING AND TECHNOLOGY	ELECTRONICS & COMMUNICATION	N	ELECTRONIC CIRCUITS LAB	Power Supply,DSO,Function Generator,Cathode Ray

		ENGG			Oscilloscope 30MHZ,
57	ENGINEERING AND TECHNOLOGY	ELECTRONICS & COMMUNICATION ENGG	N	MICRO PROCESSOR LAB	Microprocessor kit
58	ENGINEERING AND TECHNOLOGY	ELECTRONICS & COMMUNICATION ENGG	Y	VLSI DESIGN	COMPUTERS, NETWORK ITEAMS AND OTHERS
59	ENGINEERING AND TECHNOLOGY	ELECTRONICS & COMMUNICATION ENGG	N	MICROWAVE LAB	MICROWAVE Test Bench
60	ENGINEERING AND TECHNOLOGY	ELECTRONICS & COMMUNICATION ENGG	N	DIGITAL LAB	Digital Trainer Kit
61	ENGINEERING AND TECHNOLOGY	ELECTRONICS & COMMUNICATION ENGG	N	DSP LAB	DSP Based VLSI Trainer Kit
62	ENGINEERING AND TECHNOLOGY	FIRST YEAR/OTHER	N	LANGUAGE LAB	
63	COMPUTER APPLICATIONS	MASTERS IN COMPUTER APPLICATIONS	N	COMPUTER LAB I	NETWORK ITEMS AND OTHERS
64	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	THERMAL ENGINEERING LAB	Steam Boiler, Steam Turbine Test Rig, Twin Cylinder 4 stroke, Three Cylinder 4 stroke
65	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Y	PNEUMATICS & HYDRAULICS LAB	Pneumatic Training kit, Hydraulic training kit (Manual Type), Hydraulic Training kit (Electronic typ
66	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	MW PROCESSING LAB	Single mode microwave processing equipment, Micro Hardness Tester, Electronic weighing machine
67	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Y	MIS RESEARCH LAB.	Humanoid Robot, 3D Printer
68	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	METALLURGY LAB	Trinocular Inverted Metallurgical Microscope
69	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	MEASUREMENT LAB	DIFFUSED LIGHT RESEARCH POLARISCOPE, PC based Temp measur RTD and Thermocouple, PC displacement LVDT
70	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	MATERIAL TESTING LAB	Universal Testing Machine, Torsion Testing Machine
71	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	MANUFACTURING LAB	Universal Milling Machine, Pinacho Conventional Lathe 11 nos Slotting machine, Shaping machine,
72	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	MACHINE DYNAMICS LAB	Machine Dynamics Lab
73	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	KINEMATICS LAB	KINEMATICS KITS
74	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	ISRO LAB	Processor: Intel(R) Core(TM) i5-3470 CPU @ 3.20GHz instld memry RAM: 8.00GB System type: 64-bit OS x64-proces
75	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	HEAT & MASS TRANSFER LAB	Heat & Mass Transfer Lab

76	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	FLUID POWER LAB	F R Module,3/2 solenoid valve, 5/2 solenoid valve,single acting cylinder,double acting cylinder
77	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	FLUID MECHANICS LAB	Francis Turbine Test Rig, Flow visualisation water channel, Pelton Turbine Test Rig
78	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	DIGITAL MANUFACTURING LAB	Prusa i3 Mk3s 3D printer
79	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Y	COMPUTATIONAL RESEARCH LAB	Ansys 18, OpenFoam 16, Lammps
80	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	CIM LAB	Prolight 3000 Turning Center, Expert Mill, View Flex mac, Open FMS manager, View Flex machine, Cnc
81	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Y	CAE LAB	Ansys 18, OpenFoam 16
82	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	CAD LAB	COMPUTER, PROJECTOR, NETWORK ITEMS AND OTHERS
83	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Y	AERODYNAMICS LAB	Wind Tunnel and accessories
84	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	ADVANCED THERMAL FLUIDS LAB	Heat pipe apparatus, Critical heat flux Thermo couple calibration, Critical radius Conduction
85	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	ADVANCED METROLOGY LAB	Coordinate Measuring Machine, Tesa Visio, Adv vision inspection, cnc cmm tesa, elect height gauge
86	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Y	WIND TUNNEL LAB	Subsonic Wind Tunnel
87	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	ABB ROBOTICS LAB	ABB ROBOTIC HAND FOR AUTOMATIC WELDING, ABB ROBOTIC HAND FOR PICK AND PLACE
88	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Y	ADVANCED FLUID MECHANICS LAB	Flow Visualization Equipment, Venturi Meter Calibration Apparatus, Vortexing Apparatus

*_*_*_*_*