

## 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	N	AMRITA ROBOTICS RESEARCH CENTER (ARRC)	Firebird V, Bioloid Premium Kit, Multi-PIE, FIA and 3DFE Facial Expression Database, Matlab, LabVie
2	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	CISCO NETWORKING ACADEMY LAB	Router, Swith, PC's, ASA, Access Point
3	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER ARCHITECTURE & HIGH PERFORMANCE COMPUTING LAB (CACHE LAB)	NVIDIA Starter Kit (3GTX Titan Black GPUs+1 GPU Free) Hardware,NVIDIA GeForce GTX 760 GPUs- Hardware
4	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER SCIENCE LAB I	70 Computers, 1 Projector
5	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	COMPUTER SCIENCE LAB II	68 Computers, 1 Projector
6	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	N	ICTS LAB (INFORMATION COMMUNICATION & TECHNOLOGY SERVICES)	22 Server, 1 Hardware Firewall, 20 Work Stations
7	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	ELECTRIC CIRCUITS LAB	DC Regulated power Supply,DRB,DIB,DCM,Sine/Square Oscillator,Digital multi meter,Choke(single phase)
8	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	ELECTRICAL MACHINES LAB	Shunt motor Generator, Identical DC shunt Motor set,DC Series motor Generator set, Dc compound motor
9	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	ELECTRICAL MEASUREMENTS LAB	Auto transformer (Dimmer stat),Digital multimeter,Digital multimeter(shifted from workshop),Maxwell
10	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	ELECTRICAL RESEARCH LAB	3phase Induction Motor, 10MHz Arbitrary Function Generator, 3phase controlled Bridge converter
11	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	ELECTRICAL WORKSHOP	CRO 30 Mhz dual trace channe, Transformer Oil tester, Function generator 3MHZ
12	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	N	POWER ELECTRONICS & POWER CONVERTERS LAB	Chopper, Rectifier, Inverter, Modules, DSO, CRO, Testing Kit, Winding Kit, PID Control Soldering Sta
13	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	N	ANALOG ELECTRONICS AND COMMUNICATION LAB	DSO,CRO,Signal Generator,Spectrum Analyser
14	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	N	DIGITAL DESIGN LAB	Digital IC trainer Kit,CRO,Function generator,
15	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	N	MICROPROCESSOR , MICROCONTROLLER AND DSP LAB	34 Computers, pic Microcontroller kit, Dspkit, 8051 kit, 8255 kit, Stepper Motor Module
16	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	N	MICROWAVE LAB	Klystron Powersupply, Gunn Diode, Microwave Source, Frequency Meter
17	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND INSTRUMENTATION ENGINEERING	N	INSTRUMENTATION LAB	Strain Gauge, Potentiometer,Capacitive Transducer, Hall Effect, Piezoelectric pickup
18	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND INSTRUMENTATION ENGINEERING	N	PROCESS CONTROL LAB	Temperature Control Trainer, Pressure control Trainer, Cascade Control trainer

19	ENGINEERING AND TECHNOLOGY	EMBEDDED SYSTEMS	N	EMBEDDED SYSTEMS LAB	DC Switching Power Supply, Single Board Computer MCB2140, CPLD Board, Spartan III FPGA Board,
20	ENGINEERING AND TECHNOLOGY	FIRST YEAR/OTHER	N	CHEMISTRY LAB	Spectrophotometer, Colormeters, Demineralizer, Potentiometers, Conductivitymeters
21	ENGINEERING AND TECHNOLOGY	FIRST YEAR/OTHER	N	ENGLISH LAB	30 Computers, 1 Projector
22	ENGINEERING AND TECHNOLOGY	FIRST YEAR/OTHER	N	PHYSICS LAB	He-Ne Lazer, Traveling Microscopes, Sonometer, Transistor Kitsl
23	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	CAE LAB	60 Computers, 1 Projector
24	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	CAM / ROBOTICS LAB	Vision Inspection System, CNC XL Turn, CNC XL Mill, 6 Axis Robot 3 Computers, 1 Compressor
25	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	ENERGY SYSTEMS LAB	Refrigeration Tutor, Shell and tube heat exchanger Fluidized bed testing, Heat Pipedemonstrater
26	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	FLUID MACHINES LAB	Venturimeter , Orificemeter, Rectangular and V Notch , Bernoulli's Apparatus, Reynold's Apparatus
27	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	FLUID MECHANICS LAB	Test Rig For Reciprocating Pump, Gear Pump, Test Rig For Pelton Wheel, Multistage Centrifugal Pump
28	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	FLUID POWER LAB	Basic Electro Pneumatic Kit, PLC Module/Trainer, PLC Real Time Applications Matreial Handling Syst
29	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	FOUNDRY LAB	Hot Air Oven, Sandmixer, Universal Sand Testing Machine , Sieve Shaker
30	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	HEAT AND MASS TRANSFER LAB	Concetric/Parallel & Counter Flow Heat Exchanger,Heat Transfer from Pin fin, Emmissivity measurement
31	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	INSTRUMENTATION AND CONTROL LAB	Flow Process Control , Level Process Control, Stepper Motor Control, Thermocouple, RTD, Thermist
32	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	MACHINE DYNAMICS LAB	Turn-Table Apparatus, Epicyclic Gear Train, Vibration Lab Setup Governors , Gyroscope
33	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	MACHINE SHOP	Radial Drilling Machine , Shaping Machine, Surface Grinder, Percision Centre Lathe , VMC, HMC
34	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	MATERIAL TESTING LAB	Spring Testing Machine , Brinell Hardness Tester, Universal Testing Machine, Rockwell Hardness Teste
35	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	METALLURGY LAB	Microscope, Specimen Cutting Machine, Hydraulic Specimen Mounting Press,Abrasive Belt Polishing Mach
36	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	METROLOGY LAB	Profile Projector, Floating, Carriage Micrometer, Digital Height gauge, Digital vernier caliper
37	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	THERMAL ENGINEERING LAB	4 Stroke Diesel Engine, 4 Stroke 4 Cylinder Petrol Engine Variable, Compression Engine
38	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	N	WORKSHOP LAB	Pneumatic Training Kit , Grinding Machine, Welding Transformer
39	ENGINEERING AND TECHNOLOGY	POWER ELECTRONICS	N	ELECTRIC DRIVES & CONTROL LAB	Isolation Transformer,DC Regulated Power Supply,Sync firing Circuit (UJT),Digital Triggering Circuit
40	ENGINEERING AND TECHNOLOGY	VLSI DESIGN	N	VLSI LAB	Virtex6-3Kits, DSP kits, Synopsys, Mentor Graphics

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