

List of Laboratories available in Mechanical Engineering

S. No.	Name of Laboratory	Name of Important Equipment/Software
1	Engineering mechanics Lab	Compound Pendulum, Jib Crane, Screw Jack, Moment of Inertia of Flywheel, Triangle & Parallelogram of forces Apparatus, Universal Force Table (slotted weights & pulleys.), Deflection of Beam Apparatus (With Weights), Friction Slide Apparatus, Combined Inclined Plane and Friction Slide Combined Inclined Plane and Friction Slide Apparatus, Pulley System Different Type Pulley System, Worm & Worm Wheel. Single With Weight, Worm & Worm Wheel. Double With Weight, Wheel & Differential Axel - 30cm With Weight, Winch Crab Single Purchase with Weight, Winch Crab Double Purchase with Weight,
2	Thermal Engineering Lab(I & II)/ Applied Thermodynamics and HVAC Lab	Flash and Fire point apparatus, Saybolt Viscometer, Junker's Gas Calorimeter , Carbon Residue Test Using Conradson's Apparatus, Port Timing Diagram Of Petrol Engine, Port Timing Diagram Of Diesel Engine, Heat Trasnfer Through Composite Wall, Thermal conductivity apparatus, Single Clinder 2 Stoke - Petrol Engine Test Rig, Single Cylinder 4 Stroke Diesel Engine Test Rig , Single Cylinder 4 Stroke Petrol Engine Test Rig, Different types of Boilers Model, Boiler Accessories, Boiler Mounting, Gas and Steam Turbine Model, Pneumatic Trainer Kit.
3	MQC Lab/ Measurement & Metrology Lab	Portable Surface Roughness Measurement, Profile Projector, Digital Micrometer, Slip Gauge, Sine Bar, Dial Indicator, Vernier Caliper, Filler Gauge, Universal Bevel Protector, Thread Vernier Gauge, GO- NO GO Gauge, Radius Gauge, Thread Gauge.
4	Material Testing Lab/ SOM Lab	Computerized universal testing machine 1000KN Compression Testing Machine, Torsion testing machine, Deflection of Beam Apparatus, Rockwell cum Brinell hardness test, Digital Vicker Hardness Testing m/c, Izod and Charpy Test Apparatus, Shear Force & Bending Movement Apparatus, Canti Lever Beam Apparatus.
5	FM & HM Lab	Francis turbine test rig, Reciprocationg Pump Test Rig, Centrifugal Pump Test rig, Metacentric Height Apparatus, Pelton wheel turbine Test rig, Venturi meter, Determination of Friction Loss in pipes, Bernouli Apparatus, - Tube Manometer, Reynolds Apparatus
6	TOM Lab	Multi Plate Clutch, Band Brake, Double Shoe Brake, Single Shoe Brake, Band and Block Brake, Universal Governor.
7	CAD & CAM Lab	All system equipped with latest AutoCad software & Solidworks
8	CNC Lab	CNC Lathe machine
9	WELDING Lab	Virtual and Reality Welding Simulator(All types of Welding) Electric Arc Welding m/c, Spot Welding m/c, Gas Welding Machine
10	CARPENTRY SHOP	Power Hacksaw Machine, Carpentry Bench Vice & Tools Related to Carpentry Shop
11	Fitting Shop	Bench Drilling Machine, Bench Grinding Machine, Bench Vice, and Tools Related to Fitting Shop

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12	MACHINE SHOP	Manual Lathe Machine, Shaper Machine, Universal Milling Machine, Power Hacksaw, Surface Grinding, Grinder, Vertical Drilling Machine, Pillar Drilling Machine
13	RAC Lab	Vapour Compression Refrigeration System, Window AC trainer Kit, VARS Kit, Ice Plant Test Rig, Refrigeration Tool Kit, Refrigerant leak Detector Equipment, Double stage air compressor Test Rig.
14	Electric Vehicle Lab(Basic & advance)	EV Training System, BLDC Training Motor, PMDC Trainer Motor, Battery Characteristics Trainer, Battery Management System Trainer.
15	Manufacturing Engg Lab/ Advance Manufacturing & Cost Estimation Lab	Lathe Machine, all type of Welding Machine, Soldering & Brazing Machine, Horizontal surface Grinder, Universal Milling Machine, Power Press Machine, Pillar Drilling Machine, Shaper Machine, Power Hacksaw m/c, Virtual and Reality Welding Simulator m/c
16.	Robotics	8051 Microcontroller Kit, Conveyor with PLC Trainer, Mobile Robot Platform, Ultimate Code Robotic Platform, 6 axis ARM, Robotic Research Platform, Robotic Platform With Arm, Robotic Advance Kit, Robotic Junior Kit, Robotic Self Learning Kit, Waspnote Kit, Swarm Robot, Diagnostic Software for all Research Robot.
17	Fundamental of Electrical & Electronics Engg. Lab	All Types of Machines and Equipments used in Basic Electrical and Electronics Engg. Lab
18	ICT Tool Lab/ Web Technology Lab/ Python Programming Lab/ Introduction to IT Systems Lab	All system equipped with latest ICT Tool, MS Office, Python Programming, F it & C Programming.
19	Applied Chemistry Lab(I&II)	All Types of Machines Materials, Chemicals and Equipments used in Applied Chemistry Lab
20	Applied Physics Lab(I&II)	All Types of Machines Materials, and Equipments used in Applied Physics Lab
21	Engg. Drawing Lab	Drawing Board
22	E- Ynatra Lab	Desktop Computer, 3-D Printing

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