

## List of Lab Apparatuses

Sr.#	Name of Laboratory	Name of equipment/ workstation
1.	Engineering Mechanics Lab	Truss apparatus
		Polygon of forces apparatus
		Portal frame
		Roof truss apparatus
		Toggle joint apparatus
		Warren girder
		Reaction of Beam Apparatus
		Force Triangle apparatus
		Fink truss
		Coefficient of friction apparatus
		Redundant truss
2.	Mechanics of Materials Lab	Torsion of shaft apparatus
		Deflection of beam apparatus
		Reaction of Beam Apparatus
		Shear Force/Bending Moment (Deflection and Torsion) Apparatus
		Combined Beam Bending and Torsion Apparatus
		Polari scope Apparatus
		Curved Bar Apparatus
		Strain Gauge Measuring Apparatus
		Thin Cylinder Apparatus
		Strain Gauge Application Kit
		Charpy Impact Testing Machine
		Continuous Beams Apparatus
		Rubber in shear apparatus
		Extension of Spring apparatus
		Compression of spring apparatus
		Young's Modulus Apparatus
3.	Fluid Mechanics & Hydraulics Lab	Axial Pump Test Bench, computer controlled
		Gear Pump Test Bench, computer controlled
		Energy Losses in Bends and fittings
		Pipe Friction Apparatus
		Flow over weirs
		Hydrostatic pressure apparatus
		Flow visualization apparatus
		Orifice Discharge apparatus
		Axial Flow Impulse Turbine with Interface Console
		Radial Flow Reaction Turbine with Interface Console
		Centrifugal pump apparatus
		Floating Body Apparatus
		Venture Meter/Bernoulli theorem Apparatus
		Impact of Jet Apparatus
		Reynolds Number Demonstration & Transitional Flow Apparatus
		Open Circuit Subsonic Wind Tunnel with Complete Instrumentation
		Francis & Pelton Turbine Electric Generator
		Hydraulic Bench (Complete with all Accessories)

		Friction Losses in Pipe Apparatus
4.	<b>Mechanics of Machines Lab</b>	Whirling Shaft Apparatus
		Free & Damped Torsional Oscillation Apparatus
		Wheel and Axel (Compound) Apparatus
		Torsional Vibration Apparatus
		Various Types Quick Return Mechanisms
		Journal Friction machine
		Clutch Friction Apparatus
		Crank & slotted lever mechanism
		Piston crank apparatus
		Slotted Link apparatus
		Four bar chain
		Ackerman Steering Mechanism
		Oscillating cylinder mechanism
		Rotary cylinder mechanism
		Shaping Machine Mechanism
		Inertia in rotational motion apparatus
5.	<b>Metrology &amp; Quality Assurance Lab</b>	Vernier height gage
		Surface plate
		Depth Micrometer
		Mechanical Comparator
		Plug gage
		Ring gage
		Thread gage
		Feeler gage
		Wire gage
		Inside Calliper
		Outside calliper
		Dial bore gage
		Digital Micrometer
		Depth gage vernier
		Angle gage
		Universal bevel protector
		Slip gage set
		Sin bar
6.	<b>Workshops</b>	Lathe Machine
		Drilling Machine
		Surface Grinder
		Bench Grinder
		Hacksaw
		Bench Vices
7.	<b>Renewable Energy Resources Lab/Projects Lab</b>	Solar Refrigerator
		OWEC
		Wind turbine
		Biomass digester
		Solar Collector
8.	<b>Computer Lab</b>	Desktop Computers
9.	<b>Engineering Drawing Lab</b>	Drawing Tables