

DEPARTMENT OF MECHANICAL ENGINEERING

<b>LABORATORY</b>	<b>SL. NO.</b>	<b>MAJOR EQUIPMENTS/SETUP DETAILS</b>
<b>Hydraulic Machine Lab</b>	1	Hydraulic Test Bench
	2	Multispeed Centrifugal Pump
	3	Reciprocating Pump Test Rig
	4	Pelton Wheel Turbine Test Rig
	5	Francis Turbine Test Rig
	6	Constant Speed Centrifugal Pump Test Rig
	7	Gear Oil Pump Test Rig
	8	Jet Pump Test Rig
	9	Deep Well Turbine Pump Test Rig
	10	Metacentric Height Apparatus
	11	Hydraulic Ram
	12	Kaplan Turbine
	13	Reynolds Apparatus
<b>Material Testing LAB</b>	1	Impact Testing Machine
	2	Fatigue Testing Machine
	3	Torsion Testing Machine
	4	Universal Testing Machine
	5	Hardness Testing Machine
	6	Bench Grinder
<b>LABORATORY</b>	<b>SL. NO.</b>	<b>MAJOR EQUIPMENTS/SETUP DETAILS</b>

<b>IC ENGINES LAB</b>	1	4 cylinder 4 stroke petrol engine
	2	Exhaust gas calorimeter
	3	Twin cylinder 4 stroke diesel engine
	4	Two stage Twin cylinder air compressor
	5	Single cylinder two stroke petrol engine(Model)
	6	Single Cylinder 4 stroke petrol engine (Model)
	7	Single cylinder 4 stroke diesel engine (Model)
	8	Single cylinder 4 stroke diesel engine
	9	Single cylinder 2 stroke petrol engine
	10	4 cylinder 4 stroke diesel engine
<b>Machine Shop Lab</b>	1	Pillar Drilling Machine (M1)
	2	Pillar Drilling Machine (M2)
	3	Universal Milling Machine (P016)
	4	Universal Milling Machine (P015)
	5	Center Lathe (1650/2)
	6	Center Lathe (1650/1)
	7	Center Lathe (2050/2)
	8	Center Lathe (2050/2)
	9	Capstan Lathe
	10	Planing Machine
	11	Center Lathe (HMT)
	12	Shaping Machine
	13	Chain Pulley Block
	14	CNC Lathe
	15	Power Saw

	16	Gas Welding
	17	Welding Transformer
	18	MIG/MAG Welding outfit
<b>LABORATORY</b>	<b>SL. NO.</b>	<b>MAJOR EQUIPMENTS/SETUP DETAILS</b>
<b>Heat Transfer Lab</b>	1	Refrigeration Tutor Test Rig
	2	Air conditioning Tutor Test Rig
	3	Reynolds Apparatus
	4	Cochran Boiler
	5	Babcock & Wilcox Boiler
	6	Emmissivity Measurement Apparatus
	7	Shell & Tube Heat Exchanger
	8	Thermal conductivity of Metal Rod
<b>Machine Dynamics Lab</b>	1	Additional Flywheel Arrangement
	2	Screw Jack (Model)
	3	Whirling of Shaft
	4	Static & Dynamic Balancing
	5	Motorised Gyroscope
	6	Universal Governor
	7	Verification of Laws of Parallelogram of Forces
	8	Moment of Inertia of Flywheel
	9	Epicyclic Gear Train