

## Programme Wise Lab Facilities:

Name of Lab	Major Equipments
Strength of Materials & Material Characterization Lab	Computerized UTM, Tensiometer, Fatigue Testing Machine, Hardness Testing Machine, Polishing Machine, Torsion Testing Machine, And Impact Testing Machine .
Fluid Mechanics & Machines Lab.	Reynolds Number, Impact of Jet, Pipe Losses, Nozzle Meter, Orifice Meter, Notches, Pelton Wheel, Francis Turbine, Hydraulic Ram, Centrifugal Pump, Reciprocating Pump, And Blower Etc.
Computer Aided Manufacturing	Casting setup, Forging, Moulds, MIG Welding, Arc Welding, Gas Welding, 3D Printers, Open hearth furnace, Muffle furnace, Conventional Lathe Machine, Wood Turing lathe, Milling, Drilling, Grinding Machines, Tool Grinder, Shaper and Power Press, Fly Press, CNC TC and CNC VMC etc.
Thermodynamics and Heat & Mass Transfer Lab	S.I. Engines, C.I Engines, Cut Sections of Boilers, Engines and Mechanisms Heat Exchanger, Conduction, Convection and Radiation Based Experimental Kits, Heat Pipe Demonstrator, etc.
Computer Aided Modelling Lab	Smart Board, Computer (36), Software-PTC CREO, FUSION360, AutoCAD
Machine Design & Application of FEA	PTC Creo, Model of different machine elements etc.
Heat & Mass Transfer Lab	Heat Exchanger, Insulations, Conduction, Convection and Radiation Based Experimental Kits, Heat Pipe Demonstrator, etc.
Theory of Machines Lab	Vibrations Set Up, Cams, Gyroscope, Governors, Whirling of Shaft, Etc. Kits
Applied Industrial IOT Lab	Arduino, sensor, wire bus, Bluetooth module, wireless module etc.
Machine Design Lab	PTC Creo, Model of different machine elements etc.
Refrigeration and Air-Conditioning	Experimental Kit on COP Measurement Of VCERS, Air Conditioning Test Rig, Cooling Tower.
AI & ML Lab	Computer, Google O Lab, IDE