



MECHANICAL ENGINEERING LABORATORY



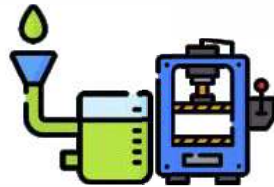
AIM

To gain practical knowledge & be
technologically skilled and
contribute towards solving socially
relevant technical problems to
serve the society

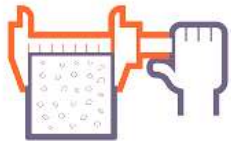
LIST OF LABORATORIES



CAD/CAM



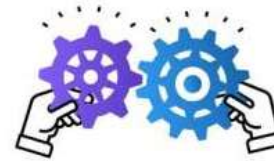
Fluid Mechanics &
Hydraulic Machine



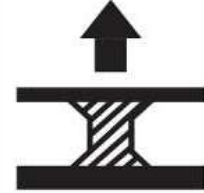
Material Testing



Mechanical Workshop



Dynamics Of Machine



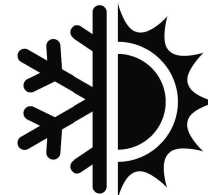
Strength Of Materials



Thermal Power Engineering



Internal Combustion Engine



Refrigeration &
Air Conditioning

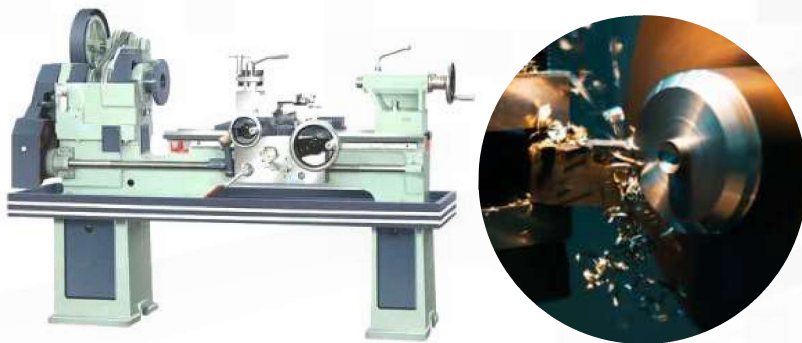


Applied Thermodynamics
& Heat Transfer

GLIMPSES OF THE LABORATORY

LATHE

Lathe is a machine tool which causes workpiece to revolve so that when cutting tool comes in contact with the workpiece. It removes the metal in the form of chips

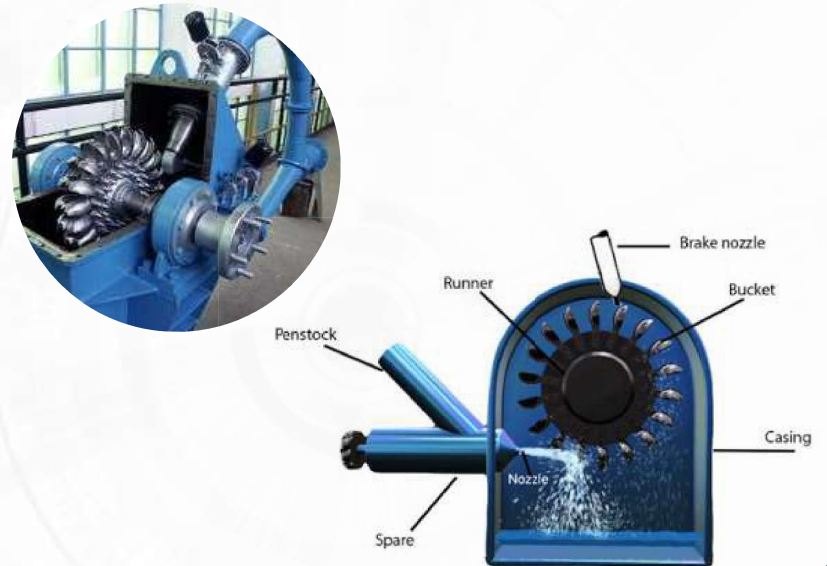


APPLICATIONS

- Turning / Tapered Turning / Facing / Thread cutting / Parting Chamfering / Knurling / Drilling / Boring / Counter Boring / Countersinking & Reaming

PELTON TURBINE

The Pelton wheel or Pelton Turbine is an impulse-type water turbine invented by American inventor Lester Allan Pelton in the 1870s to generate electricity



APPLICATIONS

- Hydroelectric Power plants

DIESEL ENGINE TEST RIG

The diesel test rigs can provide information on
Brake Horse Power, Frictional Horse Power,
Indicated Horse Power, Thermal Efficiency,
Mechanical Efficiency, Air/Fuel Ratio Etc.



APPLICATIONS

- Mechanical engines, power generators and mobile drives
- Locomotives, Construction equipment & Automobiles

ADDITIONAL INSTRUMENTS AVAILABLE

Grinding Machine | Milling Machine | Shaper Machine
Drilling Machine | Gas welding & Arc welding Machine
Universal Testing Machine | Torsion & Spring testing Machine
Rockwell & Brinell hardness testing Machine
Static & dynamic balancing apparatus
Balancing of reciprocating masses Apparatus
Universal governor & Vibration apparatus
Motorized gyroscope apparatus | Cam analysis apparatus
Reciprocating pump test rig | Centrifugal pump test rig
Francis turbine test Rig | Centrifugal blower test rig
Disc polishing Machine | Impact testing Machine (Charpy)
Cupping testing Machine | Fatigue testing Machine
Vickers hardness testing Machine
Metacentric height apparatus | Pitot tube apparatus,
Venturi meter & orifice meter apparatus | Cd,Cv,Cc apparatus
Notch apparatus | Losses in pipe apparatus
Single stage air compressor test rig | Petrol engine test rig
VCRS test rig | Air conditioning test rig
Heat conduction through lagged pipe Apparatus
Heat transfer through pin fin apparatus
Stefan's Boltzmann Apparatus | Emissivity Apparatus
Parallel flow and Counter flow Heat exchanger
Thermal conductivity Apparatus
Separating and Throttling calorimeter

POSSIBLE OPPORTUNITIES FOR STUDENTS



and many more...

