

Thermal Engineering Lab

The Thermal Engineering Lab is dedicated to the study of thermodynamics, heat transfer, and fluid mechanics. It features equipment for experiments on engine performance, refrigeration, air conditioning, and heat exchangers. Students conduct experiments to understand the principles of energy conversion, heat transfer, and fluid flow. The lab provides practical insights into the design and analysis of thermal systems, enhancing students' understanding of thermal engineering concepts.

LABORATORY DETAILS

Name of The Laboratory	THERMAL ENGINEERING LAB
Carpet Area	210 m²
No of machines or Experiment Setups	12
No. of Experiments Conducted	23

SPECIFICATION OF EQUIPMENTS/SETUPS AVAILABLE

Sl. No	Equipment
1	Single Cylinder Four Stroke Horizontal Diesel Engine with Rheostat Dynamometer.
2	Four Stroke Twin Cylinder Water Cooled Diesel Engine
3	Four Stroke Four Cylinder Petrol Engine Test Rig Coupled to Rope Brake Dynamometer with Morse Test Facility
4	Variable Compression Ratio Petrol Engine Test Rig Coupled to Eddy Current Dynamometer.
5	Single Cylinder Four Stroke Diesel Engine Test Rig Couple to Rope Brake Dynamometer with External Fly Wheel
6	Single Cylinder Four Stroke Horizontal Diesel Engine with Rope Brake Drum Dynamometer.
7	Two Stage Air Compressor Test Rig
8	Two Stroke Petrol Engine Test Rig
9	Junker's Gas Calorimeter
10	Single Cylinder Four Stroke Diesel Engine Cut Section
11	Redwood Viscometer
12	Cleveland Flash and Fire Point Apparatus