

List of Equipment/Facilities available in the Department of Mechanical Engineering

S. No.	Name of Laboratory	Facilities
1.	Advanced Welding Research Lab	<ul style="list-style-type: none">• GTAW, GMAW, SAW• Plasma Welding
2.	Automation and Mechatronics Lab	<ul style="list-style-type: none">• Basic and Electro Pneumatic Trainer• Festo Fluid Sim-H• FESTO Hydraulic Trainer• Lab View Software• NI-Academic Site License• Oscilloscope and Waveform Generator• PLC Controller Pneumatic Trainer
3.	Computer Aided Design Lab	<ul style="list-style-type: none">• Abacus, Algor, NISA, Solid works and Fluent• Auto Desk Inventor Professional Software
4.	Fuels and Heat Engines Lab	<ul style="list-style-type: none">• AVL 5-Gas Analyser• AVL Smoke Meter• Bio-diesel Preparation and Testing Facilities• Density Meter• Engine Testing
5.	Heat Transfer Research Lab	<ul style="list-style-type: none">• CCD Camera• Combustion and Swirling Flame Jet Setup• Heat Flux Micro Sensors• Infrared Camera• Mass Flow Controllers
6.	Material Characterization Lab	<ul style="list-style-type: none">• Dynamic and Static Universal Testing Machine• Micro Hardness Tester• Optical Microscope• Pin on Disc Tribometer
7.	Refrigeration and Air-Conditioning Lab	<ul style="list-style-type: none">• High Speed Camera• Mechanical Heat Pump• Testing Facility for Air Conditioning and Alternative Refrigerants• Vapour Absorption Refrigeration
8.	Vibrations Lab	<ul style="list-style-type: none">• Integrated Sound Level Meter• Rotating Machine Fault Simulator• Vibration Analyser