

# Mechanical Engineering Lab

The Mechanical Engineering Lab is a versatile facility that supports a wide range of experiments related to mechanics, materials, and manufacturing. It is equipped with testing machines, material hardness testers, and vibration analysis equipment. Students perform experiments to study the properties of materials, stress-strain behavior, and mechanical vibrations. The lab provides a comprehensive learning experience, reinforcing theoretical knowledge with practical applications.

## LABORATORY DETAILS

Name of The Laboratory	<b>MECHANICAL ENGINEERING LAB</b>
Carpet Area	<b>324.96 m<sup>2</sup></b>
No of machines or Experiment Setups	<b>16</b>
No. of Experiments Conducted	<b>14</b>

## SPECIFICATION OF EQUIPMENTS/SETUPS AVAILABLE

<b>Sl. No</b>	<b>Equipment</b>
1	Variable Speed Air Blower Test Rig
2	Air-Conditioning Test Rig
3	Refrigeration Test Rig
4	Vibration Experiment Apparatus
5	Gyroscope
6	Governor (Hartnell/Porter)
7	Whirling of Shaft
8	Static and Dynamic Balancing
9	Journal Bearing Apparatus
10	Forced Convection Apparatus
11	Thermal Conductivity Of Insulating Powder Apparatus
12	Parallel Flow/Counter Flow Heat Exchanger
13	Heat Transfer Through Lagged Pipe
14	Emissivity Measurement Apparatus
15	Composite Wall Apparatus

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Natural Convection Apparatus