

# Basic Mechanical Workshop

The Basic Mechanical Workshop at the Mechanical Engineering Department is designed to provide students with hands-on experience in various fabrication/manufacturing processes. Students gain practical skills in machining, fitting, welding, and carpentry, which are essential for understanding the fundamentals of mechanical engineering. The workshop also emphasizes safety practices and proper handling of tools to ensure a safe learning environment.

## LABORATORY DETAILS

Name of The Laboratory	<b>BASIC MECHANICAL WORKSHOP</b>
Carpet Area	<b>254.4 m<sup>2</sup></b>
No of machines or Experiment Setups	<b>9</b>
No. of Experiments Conducted	<b>5</b>

## SPECIFICATION OF EQUIPMENTS/SETUPS AVAILABLE

<b>Sl. No</b>	<b>Equipment</b>
1	Center Lathe
2	Muffle Furnace
3	Wood Saw Machine
4	Blower
5	Welding Machine
6	Hand Shearing Machine
7	Metal Cutting Machine
8	Bench Drilling Machine
9	Bench Grinder

## LIST OF EXPERIMENTS PERFORMED

S.No	Experiment Name
1	<p>Carpentry</p> <ol style="list-style-type: none"><li>1. Planing Practice on 180×50×50 Semi Hardwood</li><li>2. Cutting same wooden piece and making T-Joint</li><li>3. Cross Joint</li></ol>
2	<p>Fitting</p> <ol style="list-style-type: none"><li>1. Filing Practice on metal piece - 90×50×6 mm</li><li>2. Making L-Joint on same piece</li></ol>
3	<p>Sheet Metal Work</p> <ol style="list-style-type: none"><li>1. Seam Joint</li><li>2. Locked Seam Joint</li></ol>
4	<p>Welding</p> <ol style="list-style-type: none"><li>1. Straight Welding Practice</li><li>2. Horizontal Welding Practice</li><li>3. Single V Butt Joint, Lap Joint</li></ol>
5	<p>Foundry</p> <ol style="list-style-type: none"><li>1. Molding Practice of Solid Pattern, Split Pattern</li></ol>