



**GOVERNMENT POLYTECHNIC, NABARANGPUR**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

Discipline: <b>MECHANICAL ENGG.</b>	Semester: <b>5<sup>TH</sup></b>	Name of the Teaching Faculty: Lect. N Bikash Rao
Subject: <b>WORKSHOP PRACTICE -II</b>	No. of periods/per week class allotted: 06	Semester From date: 01.10.2021 To Date: 28.02.2022  No. of Weeks: 15
<b>COURSE OUTCOMES</b>	<b>CO1.</b> Practicing fitting, carpentry, smithy and machining <b>CO2.</b> Understanding the tools and equipment used in the practices <b>CO3.</b> Realize the time and resource utilization in the practices	
<b>WEEK</b>	<b>CLASS DAY</b>	<b>THEORY / PRACTICAL TOPIC</b>
<b>1<sup>ST</sup></b>	1	<b>1.Fitting practices</b> 1.1 Preparation of caliper.
	2	1.1 Preparation of caliper (Contd...)
	3	1.1 Preparation of caliper (Contd...)
	4	1.1 Preparation of caliper (Contd...)
	5	1.1 Preparation of caliper (Contd...)
	6	1.1 Preparation of caliper (Contd...)
<b>2<sup>ND</sup></b>	1	1.1 Preparation of caliper (Contd...)
	2	1.1 Preparation of caliper (Contd...)
	3	1.1 Preparation of caliper (Contd...)
	4	1.2 Preparation of try square.
	5	1.2 Preparation of try square (Contd...)
	6	1.2 Preparation of try square (Contd...)
<b>3<sup>RD</sup></b>	1	1.2 Preparation of try square (Contd...)
	2	1.2 Preparation of try square (Contd...)
	3	1.2 Preparation of try square (Contd...)
	4	1.2 Preparation of try square (Contd...)
	5	1.2 Preparation of try square (Contd...)
	6	1.2 Preparation of try square (Contd...)
<b>4<sup>TH</sup></b>	1	1.3 Preparation of hammer, square, Hexagonal.
	2	1.3 Preparation of hammer, square, Hexagonal (Contd...)
	3	1.3 Preparation of hammer, square, Hexagonal (Contd...)
	4	1.3 Preparation of hammer, square, Hexagonal (Contd...)
	5	1.3 Preparation of hammer, square, Hexagonal (Contd...)

	6	1.3 Preparation of hammer, square, Hexagonal (Contd...)
5 <sup>TH</sup>	1	1.3 Preparation of hammer, square, Hexagonal (Contd...)
	2	1.3 Preparation of hammer, square, Hexagonal (Contd...)
	3	1.3 Preparation of hammer, square, Hexagonal (Contd...)
	4	<b>2. Smithy Practices</b> 2.1 Preparation of door ring with hook.
	5	2.1 Preparation of door ring with hook (Contd...)
	6	2.1 Preparation of door ring with hook (Contd...)
6 <sup>TH</sup>	1	2.1 Preparation of door ring with hook (Contd...)
	2	2.1 Preparation of door ring with hook (Contd...)
	3	2.1 Preparation of door ring with hook (Contd...)
	4	2.1 Preparation of door ring with hook (Contd...)
	5	2.1 Preparation of door ring with hook (Contd...)
	6	2.1 Preparation of door ring with hook (Contd...)
7 <sup>TH</sup>	1	2.2 Preparation of hexagonal head bolt.
	2	2.2 Preparation of hexagonal head bolt. (Contd...)
	3	2.2 Preparation of hexagonal head bolt. (Contd...)
	4	2.2 Preparation of hexagonal head bolt. (Contd...)
	5	2.2 Preparation of hexagonal head bolt. (Contd...)
	6	2.2 Preparation of hexagonal head bolt. (Contd...)
8 <sup>TH</sup>	1	2.2 Preparation of hexagonal head bolt. (Contd...)
	2	2.2 Preparation of hexagonal head bolt. (Contd...)
	3	2.2 Preparation of hexagonal head bolt. (Contd...)
	4	2.3 Preparation of octagonal flat chisel.
	5	2.3 Preparation of octagonal flat chisel (Contd...)
	6	2.3 Preparation of octagonal flat chisel (Contd...)
9 <sup>TH</sup>	1	2.3 Preparation of octagonal flat chisel (Contd...)
	2	2.3 Preparation of octagonal flat chisel (Contd...)
	3	2.3 Preparation of octagonal flat chisel (Contd...)
	4	2.3 Preparation of octagonal flat chisel (Contd...)
	5	2.3 Preparation of octagonal flat chisel (Contd...)
	6	2.3 Preparation of octagonal flat chisel (Contd...)
10 <sup>TH</sup>	1	<b>3. Carpentry Practices</b> 3.1 Cutting of slot, botch, mortise and Tenon Joint (Contd...)
	2	3.1 Cutting of slot, botch, mortise and Tenon Joint (Contd...)
	3	3.1 Cutting of slot, botch, mortise and Tenon Joint (Contd...)
	4	3.1 Cutting of slot, botch, mortise and Tenon Joint (Contd...)
	5	3.1 Cutting of slot, botch, mortise and Tenon Joint (Contd...)
	6	3.1 Cutting of slot, botch, mortise and Tenon Joint (Contd...)

<b>11<sup>TH</sup></b>	1	3.2 Preparation of single dove tail joint.
	2	3.2 Preparation of single dove tail joint (Contd...)
	3	3.2 Preparation of single dove tail joint (Contd...)
	4	3.2 Preparation of single dove tail joint (Contd...)
	5	3.2 Preparation of single dove tail joint (Contd...)
	6	3.2 Preparation of single dove tail joint (Contd...)
<b>12<sup>TH</sup></b>	1	<b>4. Welding Practice</b> 4.1 Lap & Butt Joint using Arc Welding.
	2	4.1 Lap & Butt Joint using Arc Welding (Contd...)
	3	4.1 Lap & Butt Joint using Arc Welding (Contd...)
	4	4.1 Lap & Butt Joint using Arc Welding (Contd...)
	5	4.1 Lap & Butt Joint using Arc Welding (Contd...)
	6	4.1 Lap & Butt Joint using Arc Welding (Contd...)
<b>13<sup>TH</sup></b>	1	4.1 Lap & Butt Joint using Arc Welding (Contd...)
	2	4.1 Lap & Butt Joint using Arc Welding (Contd...)
	3	4.2 Lap Joint using Gas Welding.
	4	4.2 Lap Joint using Gas Welding (Contd...)
	5	4.2 Lap Joint using Gas Welding (Contd...)
	6	4.2 Lap Joint using Gas Welding (Contd...)
<b>14<sup>TH</sup></b>	1	4.2 Lap Joint using Gas Welding (Contd...)
	2	4.2 Lap Joint using Gas Welding (Contd...)
	3	4.2 Lap Joint using Gas Welding (Contd...)
	4	4.2 Lap Joint using Gas Welding (Contd...)
	5	4.3 Joining Two non-ferrous parts through.
	6	4.3 Joining Two non-ferrous parts through (Contd...)
<b>15<sup>TH</sup></b>	1	4.3 Joining Two non-ferrous parts through (Contd...)
	2	4.3 Joining Two non-ferrous parts through (Contd...)
	3	4.3 Joining Two non-ferrous parts through (Contd...)
	4	4.3 Joining Two non-ferrous parts through (Contd...)
	5	4.3 Joining Two non-ferrous parts through (Contd...)
	6	4.3 Joining Two non-ferrous parts through (Contd...)

Sign. Of Faculty concerned

Sign. Of HOD I/C.

Principal, GP NABARANGPUR