

GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN (2024-25)

Discipline: Mechanical	Semester: 3rd	Name of the Teaching faculty: Manas Kumar Mishra	
Subject: WORKSHOP PRACTICE-II (PRACTICAL-3)	No of Days/Week class allotted: 4	Semester from Date: 01/07/2024 To Date: 08/11/24 No of weeks: 15	
Week	Class Day	Topics	
1st	1st (Gr 1)	i) Syllabus, Lesson plan, COs, Exam pattern, Marking Scheme	
		ii) Safety measures in Workshop	
		iii) Preparation of Caliper	
		Aim of the experiment, Theory, Raw materials, Tools and Equipment	
	2nd (Gr 2)	iv) Procedure/Demonstration	
		v) Preparation of Caliper by students	
		i) Syllabus, Lesson plan, COs, Exam pattern, Marking Scheme	
		ii) Safety measures in Workshop	
3rd (Gr 1)	iii) Preparation of Caliper		
	Aim of the experiment, Theory, Raw materials, Tools and Equipment		
	iv) Procedure/Demonstration		
	v) Preparation of Caliper by students		
2nd	3rd (Gr 1)	i) Preparation of Caliper by students	
	4th (Gr 2)	i) Preparation of Caliper by students	
	1st (Gr 1)	i) Preparation of Caliper by students	
		ii) Assessment	
	2nd (Gr 2)	i) Preparation of Caliper by students	
		ii) Assessment	
	3rd	1st (Gr 1)	i) Preparation of try square
			Aim of the experiment, Theory, Raw materials, Tools and Equipment
ii) Procedure/Demonstration			
iii) Preparation of Try square by students			
2nd (Gr 2)		i) Preparation of try square	
		Aim of the experiment, Theory, Raw materials, Tools and Equipment	
		ii) Procedure/Demonstration	
		iii) Preparation of Try square by students	
3rd (Gr 1)		i) Preparation of Try square by students	
4th (Gr 2)		i) Preparation of Try square by students	

4th	1st (Gr 1)	i) Preparation of Try square by students
		ii) Assessment
	2nd (Gr 2)	i) Preparation of Try square by students
		ii) Assessment
	3rd (Gr 1)	i) Preparation of hammer, square / Hexagonal
		Aim of the experiment, Theory, Raw materials, Tools and Equipment
		ii) Procedure/Demonstration
	4th (Gr 2)	iii) Preparation of Hexagonal hammer by students
i) Preparation of hammer, square / Hexagonal		
Aim of the experiment, Theory, Raw materials, Tools and Equipment		
5th	1st (Gr 1)	ii) Procedure/Demonstration
		iii) Preparation of Hexagonal hammer by students
	2nd (Gr 2)	i) Preparation of Hexagonal hammer by students
		ii) Assessment
3rd (Gr 1)	i) Preparation of Hexagonal hammer by students	
	ii) Assessment	
6th	1st (Gr 1)	i) Preparation of Hexagonal hammer by students
		ii) Assessment
		i) Preparation of door ring with hook
	2nd (Gr 2)	Aim of the experiment, Theory, Raw materials, Tools and Equipment
ii) Procedure/Demonstration		
iii) Preparation of door ring with hook by students		
7th	3rd (Gr 1)	i) Preparation of door ring with hook
		Introduction to smith shop, Tools and equipments, safety measures
	4th (Gr 2)	Aim of the experiment, Theory, Raw materials, Tools and Equipment
		ii) Procedure/Demonstration
8th	1st (Gr 1)	iii) Preparation of door ring with hook by students
		i) Preparation of door ring with hook by students
		ii) Assessment
	2nd (Gr 2)	i) Preparation of door ring with hook by students
		ii) Assessment
		i) Preparation of octagonal flat chisel
	3rd (Gr 1)	Aim of the experiment, Theory, Raw materials, Tools and Equipment
		ii) Procedure/Demonstration
4th (Gr 2)	iii) Preparation of octagonal flat chisel by students	
	i) Preparation of octagonal flat chisel by students	

9th	1st (Gr 1)	i) Preparation of octagonal flat chisel by students
		ii) Assessment
	2nd (Gr 2)	i) Preparation of octagonal flat chisel by students
		ii) Assessment
	3rd (Gr 1)	i) Cutting of slot, botch, mortise and Tenon joint
		Introduction to carpentry shop, Tools and equipments, safety measures
		Aim of the experiment, Theory, Raw materials, Tools and Equipment
		ii) Procedure/Demonstration
4th (Gr 2)	iii) Preparation of slot, botch, mortise and tenon joints by students	
	i) Cutting of slot, botch, mortise and Tenon joint	
	Introduction to carpentry shop, Tools and equipments, safety measures	
	Aim of the experiment, Theory, Raw materials, Tools and Equipment	
10th	1st (Gr 1)	i) Preparation of slot, botch, mortise and tenon joints by students
	2nd (Gr 2)	i) Preparation of slot, botch, mortise and tenon joints by students
	3rd (Gr 1)	i) Preparation of slot, botch, mortise and tenon joints by students
		ii) Assessment
4th (Gr 2)	i) Preparation of slot, botch, mortise and tenon joints by students	
	ii) Assessment	
11th	1st (Gr 1)	i) Preparation of single dove tail joint
		Aim of the experiment, Theory, Raw materials, Tools and Equipment
		ii) Procedure/Demonstration
		iii) Preparation of single dove tail joint by students
	2nd (Gr 2)	i) Preparation of single dove tail joint
		Aim of the experiment, Theory, Raw materials, Tools and Equipment
		ii) Procedure/Demonstration
		iii) Preparation of single dove tail joint by students
3rd (Gr 1)	i) Preparation of single dove tail joint by students	
4th (Gr 2)	i) Preparation of single dove tail joint by students	
12th	1st (Gr 1)	i) Preparation of single dove tail joint by students
		ii) Assessment
	2nd (Gr 2)	i) Preparation of single dove tail joint by students
		ii) Assessment
	3rd (Gr 1)	i) Lap and butt joint using Arc welding
		Introduction to welding shop, Machines, Tools and equipments
		Safety measures in welding shop
		Aim of the experiment, Theory, Raw materials, Tools and Equipment
ii) Types of joints, Welding techniques, Procedure		
iii) Preparation of lap and butt joints by students		

	4th (Gr 2)	i) Lap and butt joint using Arc welding	
		Introduction to welding shop, Machines, Tools and equipments	
		Safety measures in welding shop	
		Aim of the experiment, Theory, Raw materials, Tools and Equipment	
		ii) Types of joints, Welding techniques, Procedure	
13th	1st (Gr 1)	i) Preparation of lap and butt joints by students	
	2nd (Gr 2)	i) Preparation of lap and butt joints by students	
	3rd (Gr 1)	i) Preparation of lap and butt joints by students ii) Assessment	
	4th (Gr 2)	i) Preparation of lap and butt joints by students ii) Assessment	
14th	1st (Gr 1)	i) Lap joint using gas welding	
		Aim of the experiment, Theory, Raw materials, Tools and Equipment	
		ii) Procedure/Demonstration	
		iii) Preparation of lap joints by students	
	2nd (Gr 2)	i) Lap joint using gas welding	
		Aim of the experiment, Theory, Raw materials, Tools and Equipment	
		ii) Procedure/Demonstration	
		iii) Preparation of lap joints by students	
	3rd (Gr 1)	i) Preparation of lap joints by students ii) Assessment	
	4th (Gr 2)	i) Preparation of lap joints by students ii) Assessment	
	15th	1st (Gr 1)	i) Joining of two non ferrous parts through welding
			Aim of the experiment, Theory, Raw materials, Tools and Equipment
ii) Procedure/Demonstration			
iii) Preparation of joints by students			
2nd (Gr 2)		i) Joining of two non ferrous parts through welding	
		Aim of the experiment, Theory, Raw materials, Tools and Equipment	
		ii) Procedure/Demonstration	
		iii) Preparation of joints by students	
3rd (Gr 1)		i) Preparation of joints by students ii) Assessment	
4th (Gr 2)		i) Preparation of joints by students ii) Assessment	

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29.05.24
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Faculty Signature