

# GOVERNMENT POLYTECHNIC JAJPUR

At/ Po: Ragadi, Block: Korei, Dist.: Jajpur, Odisha- 755019

Website: <https://www.gpjajpur.org> E-mail: [principalgpjajpur@yahoo.co.in](mailto:principalgpjajpur@yahoo.co.in) Contact: 9437155107

## DEPARTMENT OF WORKSHOP

### LESSION PLAN

Discipline: Metallurgy	Semester: 1st	Name of the Teaching faculty: SOUBHAGYA GHADAI
Subject: WORKSHOP PRACTICE	No of Days/Week class alloted:6	Semester starts from Date: 01/08/2023 To 30/11/2023 No of weeks: 15
Week	Class Day	Topics
1st	1st (2P) Gr 1	Introduction and different safety preaction in workshop.
	2nd (2P) Gr 1	Introduction to fitting shop and study about different holding and clamping tools with their parts and functions.
	3rd (2P) Gr 1	Study about different measuring tools with their parts and procedures.
	1st (2P) Gr 2	Introduction and different safety preaction in workshop.
	2nd (2P) Gr 2	Study about different measuring tools with their parts and procedures used in turning section.
	3rd (2P) Gr 2	(i) Study about different types of Lathe machines. (ii) Study about different parts, materials and their functions and procedures how to use them along with cutting tools.
2nd	1st (2P) Gr 1	Study about marking and cutting tools along with their parts, types, materials and procedures to use.
	2nd (2P) Gr 1	Study about finishing and striking tools along with their parts, types, materials and procedures to use.
	3rd (2P) Gr 1	Demonstrate different operations used in fitting shop like Cutting, Marking, Chipping, Fitting, Drilling, Reaming, Taping and Angular cutting.
	1st (2P) Gr 2	Study about different operations can be performed in S S Lathe machine like Parallel turning, Taper turning and Grooving.
	2nd (2P) Gr 2	Study about different operations can be performed in S S Lathe machine like Step turning, Chamfering, Knurling, Drilling, Boring, Tapping etc.
	3rd (2P) Gr 2	Demonstrate how to Centering and different operations in Lathe machine.
3rd	1st (2P) Gr 1	Job practice for triangular Male and Female fitting.
	2nd (2P) Gr 1	Job practice for triangular Male and Female fitting.
	3rd (2P) Gr 1	Job practice for triangular Male and Female fitting.
	1st (2P) Gr 2	Job practice for different operations performed in S S Lathe.
	2nd (2P) Gr 2	Job practice for different operations performed in S S Lathe.
	3rd (2P) Gr 2	Job practice for different operations performed in S S Lathe.
4th	1st (2P) Gr 1	Job practice for triangular Male and Female fitting.
	2nd (2P) Gr 1	Job submission, Record checking and Viva for fitting section.
	3rd (2P) Gr 1	Job submission, Record checking and Viva for fitting section.
	1st (2P) Gr 2	Job practice for different operations performed in S S Lathe.
	2nd (2P) Gr 2	Job submission, Record checking and Viva for turning section.
	3rd (2P) Gr 2	Job submission, Record checking and Viva for turning section.
	1st (2P) Gr 1	Study about different measuring tools with their parts and procedures used in turning section.

5th	2nd (2P) Gr 1	(i) Study about different types of Lathe machines. (ii) Study about different parts, materials and their functions and procedures how to use them along with cutting tools.
	3rd (2P) Gr 1	Study about different measuring tools with their parts and procedures used in turning section.
	1st (2P) Gr 2	Introduction to fitting shop and study about different holding and clamping tools with their parts and functions.
	2nd (2P) Gr 2	Study about different measuring tools with their parts and procedures.
	3rd (2P) Gr 2	Study about marking and cutting tools along with their parts, types, materials and procedures to use.
6th	1st (2P) Gr 1	Study about different operations can be performed in S S Lathe machine like Parallel turning, Taper turning and Grooving.
	2nd (2P) Gr 1	Study about different operations can be performed in S S Lathe machine like Step turning, Chamfering, Knurling, Drilling, Boring, Tapping etc.
	3rd (2P) Gr 1	Demonstrate how to Centering and different operations in Lathe machine.
	1st (2P) Gr 2	Study about finishing and striking tools along with their parts, types, materials and procedures to use.
	2nd (2P) Gr 2	Demonstrate different operations used in fitting shop like Cutting, Marking, Chipping, Fitting, Drilling, Reaming, Taping and Angular cutting.
	3rd (2P) Gr 2	Job practice for triangular Male and Female fitting.
7th	1st (2P) Gr 1	Job practice for different operations performed in S S Lathe.
	2nd (2P) Gr 1	Job practice for different operations performed in S S Lathe.
	3rd (2P) Gr 1	Job practice for different operations performed in S S Lathe.
	1st (2P) Gr 2	Job practice for triangular Male and Female fitting.
	2nd (2P) Gr 2	Job practice for triangular Male and Female fitting.
	3rd (2P) Gr 2	Job practice for triangular Male and Female fitting.
8th	1st (2P) Gr 1	Job practice for different operations performed in S S Lathe.
	2nd (2P) Gr 1	Job submission, Record checking and Viva for turning section.
	3rd (2P) Gr 1	Job submission, Record checking and Viva for turning section.
	1st (2P) Gr 2	Job submission, Record checking and Viva for fitting section.
	2nd (2P) Gr 2	Job submission, Record checking and Viva for fitting section.
	3rd (2P) Gr 2	Explain different safety precautions needed for welding section.
9th	1st (2P) Gr 1	Explain different safety precautions needed for sheet metal section.
	2nd (2P) Gr 1	Study about different tools used in sheet metal section with their types, material, specification and procedure to use.
	3rd (2P) Gr 1	Study about different tools used in sheet metal section with their types, material, specification and procedure to use.
	1st (2P) Gr 2	(i) Study of different type of welding process. (ii) Study of different tools and equipments used in welding used in different welding processes.
	2nd (2P) Gr 2	Study of different welding joints with welding procedures.
	3rd (2P) Gr 2	Demonstrate different joints with different groove.
10th	1st (2P) Gr 1	Study about different operations used in sheet metal like shearing, bending, heaming, notching, slitting etc.
	2nd (2P) Gr 1	Demonstrate all the operations and different joints used in sheet metal.
	3rd (2P) Gr 1	Demonstrate the development layout of different section.
	1st (2P) Gr 2	Demonstrate different joints with different groove.

	2nd (2P) Gr 2	Lap joint job preparation.
	3rd (2P) Gr 2	Lap joint job preparation.
11th	1st (2P) Gr 1	Square tray Job preparation .
	2nd (2P) Gr 1	Square tray Job preparation .
	3rd (2P) Gr 1	Record check and Viva for sheet metal section.
	1st (2P) Gr 2	Butt joint job preparation.
	2nd (2P) Gr 2	Butt joint job preparation.
	3rd (2P) Gr 2	Record check and Viva for welding section.
12th	1st (2P) Gr 1	Record check and Viva for sheet metal section.
	2nd (2P) Gr 1	Explain different safety precaution needed for welding section.
	3rd (2P) Gr 1	(i) Study of different type of welding process.
		(ii) Study of different tools and equipments used in welding used in different welding processes.
	1st (2P) Gr 2	Record check and Viva for welding section.
	2nd (2P) Gr 2	Explain different safety precaution needed for sheet metal section.
3rd (2P) Gr 2	Study about different tools used in sheet metal section with their types, material, specification and procedure to use.	
13th	1st (2P) Gr 1	Study of different welding joints with welding procedures.
	2nd (2P) Gr 1	Demonstrate different joints with different groove.
	3rd (2P) Gr 1	Demonstrate different joints with different groove.
	1st (2P) Gr 2	Study about different tools used in sheet metal section with their types, material, specification and procedure to use.
		Study about different operations used in sheet metal like shearing, bending, heaming, notching, slitting etc.
	3rd (2P) Gr 2	Demonstrate all the operations and different joints used in sheet metal.
14th	1st (2P) Gr 1	Lap joint job preparation.
	2nd (2P) Gr 1	Lap joint job preparation.
	3rd (2P) Gr 1	Butt joint job preparation.
	1st (2P) Gr 2	Demonstrate the development layout of different section.
	2nd (2P) Gr 2	Square tray Job preparation .
	3rd (2P) Gr 2	Square tray Job preparation .
15th	1st (2P) Gr 1	Butt joint job preparation.
	2nd (2P) Gr 1	Record check and Viva for welding section.
	3rd (2P) Gr 1	Record check and Viva for welding section.
	1st (2P) Gr 2	Job collection, Record check and Viva for sheet metal section.
	2nd (2P) Gr 2	Record check and Viva for sheet metal section.
	3rd (2P) Gr 2	Record check and Viva for sheet metal section.
16th	Gr.1 & Gr. 2	<b>GRAND VIVA OR SESSIONAL</b>

Sign. of Faculty

Soubhagya Bhadani  
1/8/23