

GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF WORKSHOP LESSION PLAN

Discipline: METT. AND MIN.	Semester: 1st	Name of the Teaching faculty: RUTUPARNA SWAIN
Subject: WORKSHOP PRACTICE	No of Days/Week class alloted:6	Semester starts from Date: 25/10/2022 To 31/01/2023 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 patrs, types,materials and procedures to use.
	2nd (2P) Gr 1	Study about finishing and striking tools along with their patrs, 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, Boaring, 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 perfomred in S S Lathe.
	2nd (2P) Gr 2	Job practice for different operations perfomred in S S Lathe.
	3rd (2P) Gr 2	Job practice for different operations perfomred 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 perfomred 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.
	2nd (2P) Gr 1	(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, Boaring, 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 precaution needed for welding section.
9th	1st (2P) Gr 1	Explain different safety precaution 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.
	2nd (2P) Gr 2	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	GRAND VIVA OR SESSIONAL

Sign. of Faculty