## GOVERNMENT POLYTECHNIC JAJPUR

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## DEPARTMENT OF WORKSHOP LESSION PLAN

LESSION PLAN				
Discipline: CIVIL	Semester: 2nd	Name of the Teaching faculty: KEDARNATH JENA		
Subject: WORKSHOP PRACTICE	No of Days/Week class alloted:6	Semester starts from Date: 01/10/2021 To 31/01/2022 No of weeks: 15		
Week	Class Day	Topics		
	1st (2P) Gr 1	Introduction and different safety preauction 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	1st (2P) Gr 2	Introduction and different safety preauction 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. Study about different operations can be performed in S S Lathe machine like Step		
	2nd (2P) Gr 2	turning, Chamfering, Knurling, Drilling, Boaring, Tapping etc.		
	3rd (2P) Gr 2	Demonstrate how to Centering and different operations in Lathe machine.		
	1st (2P) Gr 1	Job practice for triangular Male and Female fitting.		
3rd		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.		
	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.		
//±h	3rd (2P) Gr 1	Job submission, Record checking and Viva for fitting section.		
4th	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.		

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5th	2nd (2P) Gr 1  3rd (2P) Gr 1  1st (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. Study about different measuring tools with their parts and procedures used in
		turning section.
		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 patrs, types, materials and
		procedures to use.
	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.
6th	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 patrs, types,materials and
	250 (21 ) 01 2	procedures to use.  Demonstrate different operations used in fitting shop like Cutting, Marking,
	2nd (2P) Gr 2	Chipping, Fitting, Drilling, Reaming, Taping and Angular cutting.
	3rd (2P) Gr 2	Job practice for triangular Male and Female fitting.
<u> </u>		Job practice for different operations perfomred in S S Lathe.
		Job practice for different operations performed in S S Lathe.
7th		Job practice for different operations perfomred in S S Lathe.
		Job practice for triangular Male and Female fitting.
		Job practice for triangular Male and Female fitting.
		Job practice for triangular Male and Female fitting.
		Job practice for different operations perfomred in S S Lathe.
		Job submission, Record checking and Viva for turning section.
8th		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 preauction needed for welding section.
	1st (2P) Gr 1	Explain different safety preauction needed for sheet metal section.
	2nd (2P) Gr 1 3rd (2P) Gr 1	Study about different tools used in sheet metal section with their types, material,
		specification and procedure to use.
		Study about different tools used in sheet metal section with their types, material,
9th		specification and procedure to use.
34.11	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.
		Study of different welding joints with welding procedures.
	3rd (2P) Gr 2	
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.
		Demonstrate the development layout of different section.
	1st (2P) Gr 2	Demonstrate different joints with different groove.
		Demonstrate american joints with unforcing groove.

2nd (2P) Gr 2 Lap joint job preparation. 3rd (2P) Gr 1 Square tray Job preparation. 2nd (2P) Gr 1 Square tray Job preparation. 3rd (2P) Gr 1 Square tray Job preparation. 3rd (2P) Gr 1 Record check and Viva for sheet metal section. 3rd (2P) Gr 2 Butt joint job preparation. 3rd (2P) Gr 2 Record check and Viva for welding section.  1st (2P) Gr 1 Explain different safety preauction needed for welding section.  (i) 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 Record check and Viva for welding section.  2nd (2P) Gr 2 Record check and Viva for welding section.  2nd (2P) Gr 2 Record check and Viva for welding section.  2nd (2P) Gr 2 Record check and Viva for welding section.  2nd (2P) Gr 2 Record check and Viva for welding section.  2nd (2P) Gr 3 Demonstrate different tools used in sheet metal section with their types, material, specification and procedure to use.  1st (2P) Gr 1 Demonstrate different joints with different groove.  3rd (2P) Gr 1 Demonstrate different joints with different groove.  3rd (2P) Gr 2 Demonstrate different joints with different groove.  3rd (2P) Gr 2 Demonstrate all the operations used in sheet metal section with their types, material, specification and procedure to use.  5tudy about different operations used in sheet metal like shearing, bending, heaming, notching, slitting etc.  2nd (2P) Gr 2 Demonstrate all the operations and different joints used in sheet metal.  1st (2P) Gr 1 Sup joint job preparation.  3rd (2P) Gr 1 Square tray Job preparation.  3rd (2P) Gr 2 Square tray Job preparation.  3rd (2P) Gr 3 Square tray Job preparation.  3rd (2P) Gr 1 Record check and Viva for welding section.  3rd (2P) Gr 1 Record check and Viva for welding section.  3rd (2P) Gr 1 Record check and Viva for sheet metal section.  3rd (2P) Gr 2 Record check and Viva for	I	2 1 (22) 0 2	h
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12th			
12th		2nd (2P) Gr 2	Butt joint job preparation.
2nd (2P) Gr 1 Explain different safety preauction needed for welding section.  (i) Study of different type of welding process.  3rd (2P) Gr 1 (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 preauction needed for sheet metal section.  Study about different tools used in sheet metal section with their types, material, specification and procedure to use.  1st (2P) Gr 1 Demonstrate different joints with different groove.  3rd (2P) Gr 1 Demonstrate different joints with different groove.  Study about different tools used in sheet metal section with their types, material, specification and procedure to use.  Study about different tools used in sheet metal like shearing, bending, heaming, notching, slitting etc.  3rd (2P) Gr 2 Demonstrate all the operations used in sheet metal like shearing, bending, heaming, notching, slitting etc.  1st (2P) Gr 1 Lap joint job preparation.  1st (2P) Gr 1 Lap joint job preparation.  3rd (2P) Gr 2 Square tray Job preparation.  1st (2P) Gr 2 Square tray Job preparation .  1st (2P) Gr 2 Square tray Job preparation .  1st (2P) Gr 3 Record check and Viva for welding section.  1st (2P) Gr 1 Record check and Viva for welding section.  1st (2P) Gr 2 Record check and Viva for sheet metal section.  2nd (2P) Gr 2 Record check and Viva for sheet metal section.			_
(i) Study of different type of welding process.  3rd (2P) Gr 1  (ii) Study of different tools and equipments used in welding used in different welding processes.  1st (2P) Gr 2  2nd (2P) Gr 2  Explain different safety preauction needed for sheet metal section.  Study about different tools used in sneet metal section with their types, material, specification and procedure to use.  1st (2P) Gr 1  2nd (2P) Gr 1  Demonstrate different joints with different groove.  3rd (2P) Gr 2  Study about different tools used in sheet metal section with their types, material, specification and procedure to use.  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.  1st (2P) Gr 1  Lap joint job preparation.  1st (2P) Gr 1  Butt joint job preparation.  3rd (2P) Gr 2  Square tray Job preparation .  1st (2P) Gr 2  Square tray Job preparation .  1st (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  Record check and Viva for sheet metal section.  3rd (2P) Gr 2  Record check and Viva for sheet metal section.			
3rd (2P) Gr 1  12th  1st (2P) Gr 2  Record check and Viva for welding section.  2rd (2P) Gr 2  Explain different safety preauction needed for sheet metal section.  Study about different softs used in sneet metal section with their types, material, specification and procedure to use.  1st (2P) Gr 1  Study of different welding joints with welding procedures.  2rd (2P) Gr 1  Demonstrate different joints with different groove.  3rd (2P) Gr 1  Demonstrate different tools used in sheet metal section with their types, material, specification and procedure to use.  1st (2P) Gr 2  Study about different tools used in sheet metal section with their types, material, specification and procedure to use.  2rd (2P) Gr 2  Study about different tools 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.  1st (2P) Gr 1  Lap joint job preparation.  2rd (2P) Gr 1  Butt joint job preparation.  3rd (2P) Gr 2  Square tray Job preparation.  1st (2P) Gr 2  Square tray Job preparation.  2rd (2P) Gr 3  Record check and Viva for welding section.  3rd (2P) Gr 1  Record check and Viva for sheet metal section.  3rd (2P) Gr 2  Record check and Viva for sheet metal section.  3rd (2P) Gr 2  Record check and Viva for sheet metal section.		2nd (2P) Gr 1	Explain different safety preauction needed for welding section.
12th   welding processes.     1st (2P) Gr 2   Record check and Viva for welding section.     2nd (2P) Gr 2   Explain different safety preauction 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.     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 2   Demonstrate different joints with different groove.     5tudy 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.     1st (2P) Gr 1   Lap joint job preparation.     2nd (2P) Gr 1   Butt joint job preparation.     3rd (2P) Gr 2   Square tray Job preparation .     3rd (2P) Gr 3   Square tray Job preparation .     3rd (2P) Gr 1   Record check and Viva for welding section.     1st (2P) Gr 1   Record check and Viva for sheet metal section.     3rd (2P) Gr 2   Record check and Viva for sheet metal section.     3rd (2P) Gr 2   Record check and Viva for sheet metal section.     3rd (2P) Gr 2   Record check and Viva for sheet metal section.     3rd (2P) Gr 2   Record check and Viva for sheet metal section.     3rd (2P) Gr 2   Record check and Viva for sheet metal section.			
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specification and procedure to use.  1st (2P) Gr 1 2nd (2P) Gr 1 Demonstrate different joints with welding procedures.  3rd (2P) Gr 1 Demonstrate different joints with different groove.  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.  1st (2P) Gr 1 Lap joint job preparation.  2nd (2P) Gr 1 Butt joint job preparation.  3rd (2P) Gr 2 Demonstrate the development layout of different section.  2nd (2P) Gr 2 Square tray Job preparation .  1st (2P) Gr 3 Square tray Job preparation .  1st (2P) Gr 4 Butt joint job preparation .  2nd (2P) Gr 5 Square tray Job preparation .  1st (2P) Gr 1 Butt joint job preparation .  1st (2P) Gr 2 Square tray Job preparation .  1st (2P) Gr 3 Butt joint job preparation .  2nd (2P) Gr 4 Record check and Viva for welding section.  1st (2P) Gr 5 Ist (2P) Gr 7 Record check and Viva for sheet metal section.  3rd (2P) Gr 7 Record check and Viva for sheet metal section.  3rd (2P) Gr 7 Record check and Viva for sheet metal section.		2nd (2P) Gr 2	
1st (2P) Gr 1  2nd (2P) Gr 1  Demonstrate different joints with different groove.  3rd (2P) Gr 1  Demonstrate different joints with different groove.  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.  1st (2P) Gr 1  Lap joint job preparation.  2nd (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 .  1st (2P) Gr 2  Square tray Job preparation .  1st (2P) Gr 1  Butt joint job preparation .  1st (2P) Gr 2  Square tray Job preparation .  1st (2P) Gr 1  Record check and Viva for welding section.  3rd (2P) Gr 1  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.		3rd (2P) Gr 2	· ·
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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.  1st (2P) Gr 1 Lap joint job preparation.  2nd (2P) Gr 1 Butt joint job preparation.  3rd (2P) Gr 2 Demonstrate the development layout of different section.  2nd (2P) Gr 2 Square tray Job preparation .  1st (2P) Gr 2 Square tray Job preparation .  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 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.			
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3rd (2P) Gr 2 Record check and Viva for sheet metal section.			
	16th	Gr.1 & Gr. 2	GRAND VIVA OR SESSIONAL