GOVERNMENT POLYTECHNIC JAJPUR

A/ P: Ragadi, Block: Korei, Dist.: Jajpur, Odisha- 755019

Website: https://www.gpjajpur.org E-mail: principalgpjajpur@yahoo.co.in Contact: 9437155107

GOVERNMENT POLYTECHNIC JAJPUR DEPARTMENT OF MECHANICAL ENGINEERING

LESSON PLAN (2022-2023)

LESSON PLAN (2022-2023)				
Discipline: Electrical	Semester: 3RD	Name of the Teaching faculty: Kedarnath Jena		
Subject: ME LAB	No of	Semester from Date: 15.09.2022 To Date: 22.12.2022		
	Days/Week	No of weeks: 15		
LAD	class alloted: 3			
Week	Class Day	Topics		
		Determine M. A, V.R and efficiency of screw jack .		
1st	2nd (3p), Gr 2	i) Aim of the expt, Theory		
		ii) Tools and Equipments required		
		iii) Demonstration		
		iv) Taking readings and calculates M.A, V.R and Efficiency by students		
		Determine M. A, V.R and efficiency of screw jack .		
		i) Aim of the expt, Theory		
	1st (3p), Gr 1	ii) Tools and Equipments required		
		iii) Demonstration		
2nd		iv) Taking readings and calculates M.A, V.R and Efficiency by students		
2110		i) Record check and viva.		
	2nd (3p), Gr 2	Determine Co-efficient of friction of bearing.		
		i) Aim of the expt, Theory		
		ii) Tools and Equipments required		
		iii) Demonstration		
	2nd (3p), Gr 1	i) Record check and viva.		
		Determine Co-efficient of friction of bearing.		
		i) Aim of the expt, Theory		
3rd		ii) Tools and Equipments required		
		iii) Demonstration		
	3rd (3p), Gr 2	i) Taking readings and calculate Co-efficient of friction by students		
		ii) Record check and viva.		
4th	2nd (3p), Gr 1	i) Taking readings and calculate Co-efficient of friction by students		
		ii) Record check and viva.		
	3rd (3p), Gr 2 2nd (3p), Gr 1	Determine Youngs modulus by Searles apparatus.		
		i) Aim of the expt, Theory		
		ii) Tools and Equipments required iii) Demonstration		
		i) Taking readings and calculate Youngs modulus by students		
		Determine Youngs modulus by Searles apparatus.		
5th		i) Aim of the expt, Theory		
		ii) Tools and Equipments required		
		iii) Demonstration		
		i) Taking readings and calculate Youngs modulus by students		
		i) Record check and viva.		
	I	Determine M. A, V.R and efficiency of wheel train .		

I] 2	i) Aim of the expt, Theory
	3rd (3p), Gr 2	ii) Tools and Equipments required
		iii) Demonstration
	<u> </u>	i) Record check and viva.
		Determine M. A, V.R and efficiency of wheel train .
6th	2nd (3p), Gr 1	i) Aim of the expt, Theory
		ii) Tools and Equipments required
		iii) Demonstration
		i) Taking readings and calculate M. A, V.R and efficiency by students
	3rd (3p), Gr 2	ii) Record check and viva.
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7th	2nd (3p), Gr 1	i) Taking readings and calculate M. A, V.R and efficiency by students
		ii) Record check and viva.
	3rd (3p), Gr 2	Determination of Bending stress in beam using strain gauge.
		i) Aim of the expt, Theory
		ii) Tools and Equipments required
		iii) Demonstration
		iv) Taking readings and calculate Bending stress by students
		Determination of Bending stress in beam using strain gauge.
		i) Aim of the expt, Theory
	2nd (3p), Gr 1	ii) Tools and Equipments required
		iii) Demonstration
		iv) Taking readings and calculate Bending stress by students
8th		i) Record check and viva.
	3rd (3p), Gr 2	Study of Universal Testing Machine and determine tensile stress and
		Youngs modulus of M.S specification.
		i) Aim of the expt, Theory
		ii) Tools and Equipments required
		iii) Demonstration
		i) Record check and viva.
	2nd (3p), Gr 1 3rd (3p), Gr 2	Study of Universal Testing Machine and determine tensile stress and
		Youngs modulus of M.S specification.
		i) Aim of the expt, Theory
9th		ii) Tools and Equipments required
		iii) Demonstration
		i) Taking readings and calculate tensile stress and youngs modulus by
		Istudents
		ii) Record check and viva.
	2nd (3p), Gr 1	i) Taking readings and calculate tensile stress and youngs modulus by
		students
		ii) Record check and viva.
	2nd (3p), Gr 2	Study of pressure measuring devices such as (a) Piezometer(b) Simple
10th		manometer.
		i) Construction.
		ii) Working.
		iii) Record check and viva.
		Study of pressure measuring devices such as (a) Piezometer(b) Simple
		manometer.
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ı	2nd (3p), Gr 1	
11th		·
		ii) Working.
		i) Record check and viva.
		Study of venturimeter.
	2nd (3p), Gr 2	i) Construction.
	211α (3ρ), 61 2	ii) Working.
		i) Record check and viva.
12th	2nd (3p), Gr 1	Study of venturimeter.
		i) Construction.
		ii) Working.
		i) Record check and viva.
	2nd (3p), Gr 2	Verification of bernoulis theorem.
		i) Aim of the expt, Theory
		ii) Tools and Equipments required
		iii) Demonstration
		iv) Taking readings, calculate and verify bernoulis theorem by students
		Verification of bernoulis theorem.
		i) Aim of the expt, Theory
	2nd (3n) Gr 1	ii) Tools and Equipments required
	Σπα (5ρ), απ	iii) Demonstration
		iv) Taking readings, calculate and verify bernoulis theorem by students
13th		Model study of Centrifugal pumps, Francies, Kaplan and pelton wheel
		turbines.
	2nd (3p), Gr 2	
		ii) Working. i) Record check and viva.
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		Model study of Centrifugal pumps, Francies, Kaplan and pelton wheel turbines.
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	2na (3p), Gr 1	i) Construction.
4 4 1		ii) Working.
14th		i) Record check and viva.
	2nd (3p), Gr 2	Study of Cochran Boiler and demonstration of Steam engine.
		i) Construction.
		ii) Working.
		i) Record check and viva.
	2nd (3p), Gr 1	Study of Cochran Boiler and demonstration of Steam engine.
		i) Construction.
		ii) Working.
15th		i) Record check and viva.
1501	2nd (3p), Gr 2	Study and Demonstration of Diesel engine and Petrol engine.
		i) Construction.
		ii) Working.
		i) Record check and viva.
16th	2nd (3p), Gr 1	Study and Demonstration of Diesel engine and Petrol engine.
		i) Construction.
		ii) Working.
		i) Record check and viva.
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