		GOVERNMENT POLYTECHNIC JAJPUR
	DEI	PARTMENT OF MECHANICAL ENGINEERING
		LESSON PLAN -2024-25(Winter)
Disciplin e:MECH ANICAL	Semester:	Name of the Teaching faculty:Sushanta Kumar Mohanta
ENGINE ERING		
Subject:	No of Days/We	Semester from Date: 1/7/24 To Date: 8/11/24 No of weeks: 15
ME LAB	ek class	•
I(Pr-2)	alloted:	
	2	
Week	Class Day	
1st	1st (2P) Gr 1& 2	Parallel force Apparatus. Syllabus ,Lesson Plan,Exam and Evaluation Scheme,Aim of the Experiment Theory
	2nd (2P) Gr 1& 2	Tools and Equipment Required, Demonstration, Determine End Reaction in a Simply Supported beam using Parallel Force Apparatus.
2nd	1st (2P) Gr 1& 2 2nd (2P)	Taking Readings For Calculation of end Reaction by Students.
	Gr 1& 2	Viva ,Record Checking
	1st (2P)	Determination of Youngs Modulus using Searle's Apparatus
3rd	Gr 1& 2	Aim of the Expt.,Theory
	2nd (2P) Gr 1& 2	Tools and Equipment Required, Demonstration of Expt.
4th	1st (2P) Gr 1& 2	Determination of Youngs Modulus using Searle's Apparatus, Taking Readings For Calculation by Students.
	2nd (2P) Gr 1& 2	viva ,Record Checking
5th	1st (2P) Gr 1& 2	Testing Machine. Aim of the Expt., Theory  Tools and Equipment Required, Demonstration of Expt., Precaution and
	2nd (2P) Gr 1& 2	Handling of Machine Tool, Demonstration of Expt., Precaution and
6th	1st (2P)	
	Gr 1& 2	Taking Readings For Calculation of Torsional Rigidity by Students.
	2nd (2P) Gr 1& 2	viva ,Record Checking
7th		Determination of Salients Points(Youngs Modulus , Yield
	1st (2P) Gr 1& 2	Point, Fracture Point) from Stress-Strain Curve using Universal Testing Machine. Aim of the Expt., Theory
	2nd (2P) Gr 1& 2	Tools and Equipment Required, Demonstration of Expt., Precaution and Handling of Machine Tool, Demonstration of Expt.

Sth		Determination of Salients Points(Youngs Modulus, Yield
	1st (2P)	Point, Fracture Point) from Stress-Strain Curve using Universal Testing
	Gr 1& 2	Machine, Taking Readings For Calculation by Students.
	2nd (2P)	Control of the Contro
	Gr 1& 2	viva ,Record Checking
9th	1st (2P)	Determination of Hardness number by Rockwell/Vickers Hardness
	Gr 1& 2	Testing Machine, Aim of the Expt., Theory
	2nd (2P)	Tools and Equipment Required, Demonstration of Expt., Precaution and
	Gr 1& 2	Handling of Machine Tool, Demonstration of Expt.
10th	1st (2P)	Determination of Hardness number by Rockwell/Vickers Hardness
	Gr 1& 2	Testing Machine ,Taking Readings For Calculation by Students.
	2nd (2P)	The state of the s
	Gr 1& 2	viva ,Record Checking
	1st (2P)	Determination of Toughness using Impact Testing
11th	Gr 1& 2	Machine(Charpy/Izod) Aim of the Expt., Theory
	2nd (2P)	Tools and Equipment Required, Demonstration of Expt., Precaution and
	Gr 1& 2	Handling of Machine Tool, Demonstration of Expt.
12th	1st (2P)	Determination of Hardness number by Rockwell/Vickers Hardness
	Gr 1& 2	Testing Machine , Taking Readings For Calculation by Students.
	2nd (2P)	
	Gr 1& 2	viva ,Record Checking
13th	1st (2P)	
	Gr 1& 2	Determination of Flash Point and Fire Point, Aim of the Expt., Theory
	2nd (2P)	Y A CONTRACTOR OF THE STATE OF
	Gr 1& 2	Apparatus and Consumables Required, Precaution and Handling, Demonstrat
14th	1st (2P)	Taking Readings For Calculation by Students, Viva, Record Checking.
	Gr 1& 2	
	2nd (2P)	Joules Experiment, Establishment of relation between work and Heat
	Gr 1& 2	
15th	1st (2P)	
	Gr 1& 2	Apparatus and Consumables Required, Precaution and Handling, Demonstrat
	2nd (2P)	
	Gr 1& 2	viva ,Record Checking

Suchanta Ku. Mohanta Sign of Faculty