

GOVERNMENT CO.ED POLYTECHNIC RAIPUR (C.G)
DEPARTMENT OF MECHANICAL

LESSON PLAN

Session - 2024-25 Nov-24

Session start as per university calendar:

course name - APPLIED MECHANICS

Name of Subject Teacher: BHOONANDANI SAHU

Lecturer plan T+P = 5

Course code: 2000173(037)

Sem - I, Mechanical

Discipline: All Branch

S.No	Chapter No.	Topics	Sub Topic to be covered under this unit	Semester:	Class room Instruction Start Date					
					Total hours	No. of periods planned	Actual No of periods taken	Date of Class Conduction	Use of AV resources if any	
1	1	Identify the force systems for different conditions using concepts of mechanics	Defination of mechanics, statics, Dynamics, concept of system of forces composition and resolution free body daigram moment of a force and couple	9	1	1	23/9/24	NA		
					2	2	7/10/24			
					2	2	21/10/24			
					1	2	9/10/24			
					3	2	15/10/24			
					3	2	15/10/24			
					3	2	16/10/24			
					3	2	16/10/24			
					2	2	21/10/24 - 20/11			
					2	2	22/10/24			
2	2	Find out the centroid and centre of gravity of various engineering components	centre of gravity, c.g. of simple solid moment of inertia parallel axis theorem Rough and smooth surface, angle of friction method of reducing friction	11	2	2	22/10/24	NA		
					3	3	23/11/24			
					3	3	25/10/24			
					3	3	28/10/24 - 2/11			
					3	3	4/11/24 - 8/11			
3	3	Estimate force of friction in various conditions	friction in journal bearing	14	4	4	8/11/24	NA		
					5	5	19/11/24 - 20/11			
					5	5	20/11/24 - 20/11			
					5	5	25/11/24 - 26/11			
					5	5	27/11/24 - 28/11			

4	4	Estimate velocities and acceleration in various linear and curvilinear motion	concept of speed and velocity	1	3	3/12/24	NA
			angular velocity angular acceleration	3	1	4/12/24-24	
5	5	Calculate power torque and energy associated with various engineering applications	motion under gravity	1	1	7/12/24	NA
			Newtons laws of motion	5	5	9/12/24	
			momentum and energy principle	5	5	10/12/24	
			definition of work force and torque	4	4	11/12/24-24	
6	6	Simple lifting machines and transmission of power	equation of H.P. in terms of torque and R.P.M.	8	8	14/12/24-24	NA
			law of machine	2	2	16/12/24-24	
			simple compound levers	6	2	21/12/24-24	
			simple screw jack	4	2	23/12/24-24	
			transmission of power	6	2	24/12/24-24	
				80			

B-SH

Principal
 Gyan Ganga
 Raipur (C.G.)