

GOVT. POLYTECHNIC MAYURBHANJ					
LESSON PLAN					
Discipline : MECHATRONICS ENGG.		Semester: 3RD		Name of the Teaching Faculty : Debasis Patra	
Subject : H&P LAB PR4		No. of Days / per week class allotted : 04		Semester From date : 14.07.2025 To Date : 15.11.2025	
MONTH	Week	Day	Group	Topics	
JULY				PNEUMATICS LAB	
	3RD	5TH	1	Direct operation of a single Acting cylinder.	
	4TH	5TH		Direct operation of Double Acting cylinder.	
AUGUST	1ST	5TH		Operations of Single Acting Cylinder controlled from two different positions using shuttle valve.	
	2ND	5TH		Operation of a Double Acting cylinder with Quick exhaust valve.	
	4TH	5TH		CLASS TEST	
	5TH	5TH		Speed control of Double Acting cylinder using metering in and metering out circuit.	
4TH	5TH	Automatic operation of Double Acting cylinder in multi cycles -Using limit switches and memory valves.			
SEPTEMBER	1ST	5TH		Automatic operation of Two Double Acting cylinder in multi cycles -Using limit switches and memory valves in the following sequencea. A+B+A-B, b. A-B+A+B, c. A+B+B-A, d. A-B+A-B	
	2ND	5TH		Operation of a Double Acting cylinder using solenoid operated Directional control valve	
				HYDRAULICS LAB	
	3RD	5TH		Direct operation of Double Acting cylinder.	
	4TH	5TH		INTERNAL EXAM-1	
OCTOBER	1ST	5TH		Direct operation of Hydraulic Motor.	
	2ND	5TH		Speed control of Double Acting cylinder - Using metering-in and metering out control.	
	3RD	5TH		Automatic operation of Double Acting cylinder in multi cycles -Using pressure sequencing valve	
	5TH	5TH		INTERNAL EXAM-2	
NOV EMB ER	1ST	6th		Speed control Hydraulic Motor - Using metering-in and metering-out control.	
	2ND	5TH		Operation of a Double Acting cylinder using solenoid operated Directional control valve.	

HOD,Electrical
Govt.Polytechnic
Mayurbhanj

Subject Expert
Govt.Polytechnic
Mayurbhanj

Academic Co-ordinator
Govt.Polytechnic
Mayurbhanj