

LESSON PLAN.						
Academic Session :- 2021-22						
Subject :- Theory of Machine , Subject code - Th-1					Total Period :- 60	
Teacher :- Sanjay Kumar Rout (PTGF, MECHANICAL ENGINEERING DEPT.)					Theory :- 4p/week	
SEMESTER:-4th						
MONTH	Week	Date	Syllabus to be covered	Syllabus actually covered	Short fall	Signature
M A R C H	2ND	10.03.2022	1.0 Simple mechanism 1.1 Link ,kinematic chain, mechanism, machine			
		11.03.2022	1.2 Inversion, four bar link mechanism and its inversion			
		14.03.2022	1.3 Lower pair and higher pair			
		16.03.2022	1.4 Cam and followers			
	3RD	17.03.2022	2.0 Friction 2.1 Friction between nut and screw for square thread, screw jack			
		21.03.2022	2.2 Bearing and its classification, Description of roller, needle roller& ball bearings.			
		23.03.2022	2.3 Torque transmission in flat pivot& conical pivot bearings.			
		24.03.2022	2.4 Flat collar bearing of single and multiple types.			
	4TH	25.03.2022	2.5 Torque transmission for single and multiple clutches			
		28.03.2022	2.6 Working of simple frictional brakes.			
		30.03.2022	2.7 Working of Absorption type of dynamometer			
		31.03.2022	3.0 Power Transmission 3.1 Concept of power transmission			
A P R I L	1ST	04.04.2022	3.2 Type of drives, belt, gear and chain drive.			
		06.04.2022	3.3 Computation of velocity ratio, length of belts (open and cross)with and without slip.			
		07.04.2022	3.4 Ratio of belt tensions, centrifugal tension and initial tension.			
		08.04.2022	3.5 Power transmitted by the belt.			
		11.04.2022	3.6 Determine belt thickness and width for given permissible stress for open and crossed belt considering centrifugal tension.			
		13.04.2022	3.7 V-belts and V-belts pulleys			
	3RD	18.04.2022	3.8 Concept of crowning of pulleys.			
		20.04.2022	3.9 Gear drives and its terminology.			
		21.04.2022	3.10 Gear trains, working principle of simple, compound, reverted and epicyclic gear trains.			
		22.04.2022	4.0 Governors and Flywheel 4.1 Function of governor			
	4TH	25.04.2022	4.2 Classification of governor			
		27.04.2022	4.3 Working of Watt, Porter, Proel and Hartnell governors.			
28.04.2022		4.4 Conceptual explanation of sensitivity, stability and isochronisms.				
29.04.2022		4.5 Function of flywheel.				
1ST	02.05.2022	4.6 Comparison between flywheel &governor				
	04.05.2022	4.7 Fluctuation of energy and coefficient of fluctuation of speed				

M A Y	1ST	05.05.2022	5.0 Balancing of Machine 5.1 Concept of static and dynamic balancing.			
		06.05.2022	5.2 Static balancing of rotating parts.			
	2ND	09.05.2022	5.2 Static balancing of rotating parts.			
		11.05.2022	5.3 Principles of balancing of reciprocating parts			
		12.05.2022	5.4 Causes and effect of unbalance.			
		13.05.2022	5.4 Causes and effect of unbalance.			
		18.05.2022	5.5 Difference between static and dynamic balancing			
		19.05.2022	5.5 Difference between static and dynamic balancing			
		20.05.2022	6.0 Vibration of machine parts			
	4TH	23.05.2022	6.0 Vibration of machine parts			
		25.05.2022	6.1 Introduction to Vibration and related terms (Amplitude, time period and frequency, cycle)			
		26.05.2022	6.1 Introduction to Vibration and related terms (Amplitude, time period and frequency, cycle)			
		27.05.2022	6.2 Classification of vibration.			
J U N E	1ST	01.06.2022	6.2 Classification of vibration.			
		02.06.2022	6.3 Basic concept of natural, forced & damped vibration			
		03.06.2022	6.3 Basic concept of natural, forced & damped vibration			
	2ND	06.06.2022	6.4 Torsional and Longitudinal vibration			
		08.06.2022	6.4 Torsional and Longitudinal vibration			
		09.06.2022	6.5 Causes & remedies of vibration			
		10.06.2022	6.5 Causes & remedies of vibration			
	3RD	16.06.2022				
		17.06.2022				
	4TH	21.06.2022				
		22.06.2022				
		23.06.2022				
		24.06.2022				