			LESSON PLAN.			
			Academic Session :- 2022-23(S)			
			Subject :- Theory of Machine , Subject code - Th-1	**Total Period :- 60**		
Teacher :	**SHUBHASINI MUDULI (PTGF, MECHANICAL ENGINEERING DEPT.)**			**Theory :- 4p/week**		
				SEMESTER:-4th		
MONTH	**Week**	**Date**	**Syllabus to be covered**	**Syllabus actually**	**Short fall**	**Signature**
F E B R U A R Y	3RD	14.02.2023	**1.0 Simple mechanism** 1.1 Link ,kinematic chain, mechanism, machine			
		15.02.2023	1.2 Inversion, four bar link mechanism and its inversion			
	4TH	20.02.2023	1.3 Lower pair and higher pair			
		20.02.2023	1.4 Cam and followers			
		21.02.2023	**2.0 Friction** 2.1 Friction between nut and screw for square thread, screw			
		22.02.2023	2.2 Bearing and its classification, Description of roller, needle roller& ball bearings.			
	5TH	27.02.2023	2.3 Torque transmission in flat pivot& conical pivot bearings.			
		27.02.2023	2.4 Flat collar bearing of single and multiple types.			
		28.02.2023	2.5 Torque transmission for single and multiple clutches			
M A R C H	1ST	1.03.2023	2.6 Working of simple frictional brakes.			
	2ND	6.03.2023	2.7 Working of Absorption type of dynamometer			
		6.03.2023	**3.0 Power Transmission** 3.1 Concept of power transmission			
	3RD	13.03.2023	3.2 Type of drives, belt, gear and chain drive.			
		13.03.2023	3.3 Computation of velocity ratio, length of belts (open and cross)with and without slip.			
		14.03.2023	3.4 Ratio of belt tensions, centrifugal tension and initial tension.			
		15.03.2023	3.5 Power transmitted by the belt.			
	4H	20.03.2023	3.6 Determine belt thickness and width for given permissible stress for open and crossed belt considering centrifugal tension.			
		20.03.2023	3.7 V-belts and V-belts pulleys			
		21.03.2023	3.8 Concept of crowning of pulleys.			
		22.03.2023	3.9 Gear drives and its terminology.			
	5TH	27.03.2023	3.10 Gear trains, working principle of simple, compound, reverted and epicyclic gear trains.			
		27.03.2023	**4.0 Governors and Flywheel** 4.1 Function of governor			
		28.03.2023	4.2 Classification of governor			
		29.03.2023	4.3 Working of Watt, Porter, Proel and Hartnell governors.			
A P R I L	2ND	3.04.2023	4.4 Conceptual explanation of sensitivity, stability and isochronisms.			
		3.04.2023	4.5 Function of flywheel.			
		4.04.2023	4.6 Comparison between flywheel &governor			
		5.04.2023	4.7 Fluctuation of energy and coefficient of fluctuation of speed			
	3RD	10.04.2023	**5.0 Balancing of Machine** 5.1 Concept of static and dynamic balancing.			
		10.04.2023	5.2 Static balancing of rotating parts.			
		11.04.2023	5.2 Static balancing of rotating parts.			
		12.04.2023	5.3 Principles of balancing of reciprocating parts			
	4TH	17.04.2023	5.4 Causes and effect of unbalance.			
		17.04.2023	5.4 Causes and effect of unbalance.			
		18.04.2023	5.5 Difference between static and dynamic balancing			
		19.04.2023	5.5 Difference between static and dynamic balancing			
	5TH	24.04.2023	6.0 Vibration of machine parts			
		24.04.2023	6.0 Vibration of machine parts			
		25.04.2023	6.1 Introduction to Vibration and related terms (Amplitude, time period and			
		26.04.2023	6.1 Introduction to Vibration and related terms (Amplitude, time period and			
M A Y	1ST	1.05.2023	6.2 Classification of vibration.			
		1.05.2023	6.2 Classification of vibration.			
		2.05.2023	6.3 Basic concept of natural, forced & damped vibration			
		3.05.2023	6.3 Basic concept of natural, forced & damped vibration			
	2ND	8.05.2023	6.3 Basic concept of natural, forced & damped vibration			
		8.05.2023	6.3 Basic concept of natural, forced & damped vibration			
		9.05.2023	6.3 Basic concept of natural, forced & damped vibration			
		10.05.2023	6.3 Basic concept of natural, forced & damped vibration			
	3RD	15.05.2023	6.4 Torsional and Longitudinal vibration			
		15.05.2023	6.4 Torsional and Longitudinal vibration			
		16.05.2023	6.4 Torsional and Longitudinal vibration			
		17.05.2023	6.5 Causes & remedies of vibration			
		22.05.2023	6.5 Causes & remedies of vibration			
	4TH	22.05.2023	6.5 Causes & remedies of vibration			
		23.05.2023	REVISION			

Subhasini Muduli