Lesson Plan

Subject: **TOM** (Th -1)

Name of faculty: SARBESWAR ROUT

Semester: 4TH Class allotted: 4p/week

Branch: Mechanical

Session: 2024(S)

Disciplin	ne Semester	From date: To date:	2024(3)	
Subject:	No. of days/ per week Theory/ Practical –Topics/Lesson		Teaching Aid	
Week	Date/Period			
1	TO 20/01/2024	Link ,kinematic chain, mechanism, machine Inversion, four bar link mechanism and its inversion Lower pair and higher pair . Cam and followers	White Board Marker Smart board	
2	22/01/2024 TO 27/01/2024	Friction Friction between nut and screw for square thread, screw jack Bearing and its classification, Description of roller, needle roller& ball bearings Torque transmission in flat pivot& conical pivot bearings	White Board Marker Smart board	
3	29/02/2024 TO 03/02/2024	Flat collar bearing of single and multiple types Torque transmission for single and multiple clutches Working of simple frictional brakes. Numerical problem	White Board Marker Smart board	
4	10/02/2024	Concept of manual transmission	White Board Marker Smart board	

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Week	Date/Period	Theory/Prestical Tarian/Lancar	Teacı
- Treek	12/02/2024	Theory/ Practical –Topics/Lesson	Ai
5	TO	Ratio of belt tensions, centrifugal tension and initial tension	White Board Marker
	17/02/2024	Power transmitted by the belt.	Smart board
		Determine belt thickness and width for given permissible stress for open and	
		crossed belt considering centrifugal tension.	
		V-belts and V-belts pulleys.	
6	19/02/2024 TO	Concept of crowning of pulleys.	White Board Marker
	24/02/2024	Gear drives and its terminology.	Smart board
		Gear trains, working principle of simple, compound	
		reverted and epicyclic gear trains.	
	26/02/2024	Numerical control	
7	TO	Numerical problem	Marker White Board
/		Function of governor	
	02/03/2024	Classification of governor, Working of Watt, Porter	
		Proel and Hartnell governors.	
8	04/03/2024 TO	Conceptual explanation of sensitivity, stability and isochronisms	White Board Marker
0	09/03/2024	Function of flywheel.	Smart board
		. Comparison between flywheel &governor.	
		Fluctuation of energy and coefficient of fluctuation of speed.	
	11/03/2024 TO	Numerical problem	White Board
9		Concept of static and dynamic balancing.	Marker Smart board
		Static balancing of rotating parts.	
		Principles of balancing of reciprocating parts.	
	18/03/2024		Marker
	23/03/2024	Causes and effect of unbalance. Difference between static and dynamic balancing	White Board Smart board
10		Numerical problem Numerical problem	
11	27/03/2024 TO	Numerical problem	White Board Marker
11		Numerical problem	Marker Smart board

7	Cir			
M			Numerical problem	
1			Numerical problem .	
		02/04/2024	Vibration of machine parts	Marker White Board
	12	то	Introduction to Vibration and related terms (Amplitude, time period and frequency, cycle)	Smart board
		06/04/2024	Classification of vibration Basic concept of natural, forced & damped vibration.	
		08/04/2024		White Board Marker
	13.	ТО	Torsional and Longitudinal vibration. Causes & remedies of vibration. Numerical problem	Smart board
		13/04/2024	. Numerical problem	
Ī		15/04/2024		White Board Marker
	14	ТО	Revision	Smart board
		20/04/2024		
		22/ 04/2024		White Board
	15	TO 26/04/2024	Revision	Marker Smart board

Signature of HOD

Signature of faculty