Discipline : MECHANICAL ENGG.	**Semester :** 4TH	**Name of The Teaching Faculty :** ER. GANESH CHANDRA PANDA
Subject: TOM	**No Of Days/Week Class Allotted** 04	**Semester From :** 16.01.2024 To 26.04.2024
		No. Of Weeks : 15
WEEKS	**CLASS DAY**	**THEORY**
16.01.2024 TO 20.01.2024	1st	Link ,kinematic chain,
	2nd	mechanism, machine
	3rd	Inversion, four bar link mechanism
22.01.2024 TO 27.01.2024	1st	four bar link mechanism and its inversion
	2nd	Lower pair and higher pair
	3rd	**REPUBLIC DAY**
	4th	Cam and followers
29.01.2024 TO 03.02.2024	1st	Friction between nut and screw for square thread
	2nd	Screw jack
	3rd	Bearing and its classification
	4th	Description of roller, needle roller& ball bearings.
05.02.2024 TO 10.02.2024	1st	Flat collar bearing of single and multiple types.
	2nd	Torque transmission for single and multiple clutches
	3rd	Solve Numerical
	4th	Working of Absorption type of dynamometer
12.02.2024TO 17.02.2024	1st	Working of simple frictional brakes.
	2nd	Revision of the chapter
	3rd	Concept of power transmission
	4th	Type of drives, belt, gear and chain drive.
19.02.2024 TO 24.02.2024	1st	Computation of velocity ratio, length of belts (open and cross)with and without slip.
	2nd	Continuation of previous topic
	3rd	Ratio of belt tensions

	4th	centrifugal tension and initial tension.
26.02.2024 TO 02.03.2024	1st	Power transmitted by the belt.
	2nd	Solve numerical
	3rd	Determine belt thickness and width for given permissible stress for open considering centrifugal tension.
	4th	Determine belt thickness and width for given permissible crossed belt
04.03.2024 TO 09.03.2024	1st	Solve numerical
	2nd	V-belts and V-belts pulleys.
	3rd	**MAHA SIVA RATRI**
	4th	Concept of crowning of pulleys.
11.03.2024 TO 16.03.2024	1st	Gear drives and its terminology.
	2nd	Gear trains, working principle of simple, compound gear train
	3rd	reverted and epicyclic gear trains.
	4th	Function of governor
18.03.2024 TO 23.03.2024	1st	Classification of governor
	2nd	Working of Watt, Porter governor
	3rd	Proel and Hartnell governors.
	4th	Sensitivity, stability and isochronisms.
25.03.2024 TO 30.03.2024	1st	**DOLO PURNIMA**
	2nd	Function of flywheel.
	3rd	**GOOD FRIDAY**
	4th	Comparison between flywheel &governor
01.04.2024 TO 06.04.2024	1st	**UTKAL DIVAS**
	2nd	Fluctuation of energy and coefficient of fluctuation of speed.
	3rd	Solve Numerical
	4th	Concept of static and dynamic balancing.
08.04.2024 TO 13.04.2024	1st	Static balancing of rotating parts.
	2nd	**ID UL FITRE**

	3rd	Principles of balancing of reciprocating parts.
	4th	Causes and effect of unbalance.
15.04.2024 TO 20.04.2024	1st	Difference between static and dynamic balancing
	2nd	Introduction to Vibration and related terms
	3rd	Classification of vibration.
	4th	Basic concept of natural, forced & damped vibration
22.04.2024 TO 27.04.2024	1st	Torsional and Longitudinal vibration.
	2nd	Causes & remedies of vibration.
	3rd	Previous year question discussion
		CLOSING OF ATTENDANCE