	LESSION DI ANI AS DES	THEORY OF MACHINE R SCTEVT WEF dt.16/01/2024 OF 4 TH SEMESTER TO DT. 26/04/24
	MECHANICAL EI	NGINEERING DEPARTMENT OF GOVT POLYTECHNIC ANGUL
Discipline :Mechanical engineering	Semester: 4th	Name of the Teachnig Faculty : MRS. LOPAMUDRA SWAIN (LECTURE)
Subject:Theory Of Machine (th-1)	No.of days/Per weeks Class Alloted Weeks :4	Semester From Date: 16th JAN 2024 To Date: 26 APR 2024
Weeks	Class day	Theory
3RD(JAN-2024)	1st	1.1 Link ,kinematic chain, mechanism, machine
	2nd	1.2 Inversion, four bar link mechanism and its inversion
	3rd	1.2 Inversion, four bar link mechanism and its inversion
	4th	1.4 Cam and followers
4TH(JAN-2024)	1st	2.1 Friction between nut and screw for square thread, screw jack
	2nd	2.2 Bearing and its classification, Description of roller, needle roller& ball bearings.
	3rd	2.3 Torque transmission in flat pivot& conical pivot bearings.
	4th	2.4 Flat collar bearing of single and multiple types.
1ST(FEB-2024)	1st	2.5 Torque transmission for single and multiple clutches.
	2nd	2.6 Working of simple frictional brakes.
	3rd	2.7 Working of Absorption type of dynamometer
	4th	3.1 Concept of power transmission.
2ND(FEB-2024)	1st	3.2 Type of drives, belt, gear and chain drive.
	2nd	3.3 Computation of velocity ratio, length of belts (open and cross) with and without slip.
	3rd	3.4 Ratio of belt tensions, centrifugal tension and initial tension.
	4th	3.5 Power transmitted by the belt.

	1st	HOLIDAY
	2nd	HOLIDAY A best considering
3RD(FEB-2024)	3rd	3.60Determine belt thickness and width for given permissible stress for open and crossed belt considerin
	4th	3.7 V-belts and V-belts pulleys
	1st	3.8 Concept of crowning of pulleys.
4711/550 0004)	2nd	3.9 Gear drives and its terminology
4TH(FEB-2024)	3rd	3.10 Gear trains, working principle of simple, compound, reverted and epicyclic gear trains.
	4th	4.1 Function of governor
	1st	4.2 Classification of governor
	2nd	4.3 Working of Watt, Porter, Proel and Hartnell governors.
1ST(MAR-2024)	3rd	4.4 Conceptual explanation of sensitivity, stability and isochronisms.
	4th	4.5 Function of flywheel.
	1st	4.6 Comparison between flywheel &governor
	2nd	4.7 Fluctuation of energy and coefficient of fluctuation of speed.
2ND(MAR-2024)	3rd	5.1 Concept of static and dynamic balancing.
	4th	5.2 Static balancing of rotating parts.
	1st	5.3 Principles of balancing of reciprocating parts
	2nd	5.4 Causes and effect of unbalance.
3RD(MAR-2024)	3rd	5.5 Difference between static and dynamic balancing
	4th	6.1 Introduction to Vibration and related terms (Amplitude, time period and frequency, cycle)
	1st	HOLIDAY
	2nd	HOLIDAY

411((VIAN-2024)	3rd	6.2 Classification of vibration.
	4th	6.3 Basic concept of natural, forced & damped vibration.
	1st	INTERNAL ASSESSMENT
	2nd	INTERNAL ASSESSMENT
1ST(APR-2024)	3rd	6.3 Basic concept of natural, forced & damped vibration.
	4th	6.5 Causes & remedies of vibration.
	1st	6.5 Causes & remedies of vibration.
2ND(ADD 2024)	2nd	6.4 Torsional and Longitudinal vibration.
2ND(APR-2024)	3rd	6.4 Torsional and Longitudinal vibration.
	4th	6.4 Torsional and Longitudinal vibration.
Ĭ.	1st	3.1 Revision to the topic: Concept of power transmission.
200(400 2024)	2nd	3.2 Type of drives, belt, gear and chain drive.
3RD(APR-2024)	3rd	3.2 Type of drives, belt, gear and chain drive.
	4th	3.3 Computation of velocity ratio, length of belts (open and cross) with and without slip.
	1st	HOLIDAY
4TU(4 DD 2024)	2nd	HOLIDAY
4TH(APR-2024)	3rd	3.3 Computation of velocity ratio, length of belts (open and cross) with and without slip.
	4th	3.3 Computation of velocity ratio, length of belts (open and cross) with and without slip.

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