

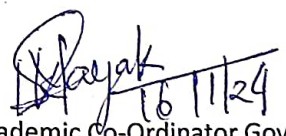


ACADEMIC SESSION : 2023-24 (SUMMER-2024)				
DISCIPLINE: MECHANICAL ENGINEERING		SEMESTER: 4TH	NAME OF THE TEACHING FACULTY: DIBYAJYOTI PANDA	
SUBJECT: THEORY OF MACHINES			SEMESTER FROM DATE 16-01-2024 TO 26-04-2024	
SL NO	DATE	CHAPTER	THEORY TOPIC NAME	NO OF PERIODS
1	17-01-2024	Simple mechanism	Link	1
2	18-01-2024		kinematic chain	1
3	19-01-2024		mechanism, machine	1
4	22-01-2024		Inversion, four bar link mechanism and its inversion	1
5	24-01-2024		Inversion, four bar link mechanism and its inversion	1
6	25-01-2024		Lower pair and higher pair	1
7	29-01-2024		Cam and followers	1
8	31-01-2024		Cam and followers	1
9	01-02-2024	Friction	Friction between nut and screw for square thread	1
10	02-02-2024		screw jack	1
11	05-02-2024		Bearing and its classification	1
12	07-02-2024		Description of roller, needle roller & ball bearings	1
13	08-02-2024		Torque transmission in flat pivot & conical pivot bearings.	1
14	09-02-2024		Flat collar bearing of single and multiple types	1
15	12-02-2024		Torque transmission for single and multiple clutches	1
16	15-02-2024		Torque transmission for single and multiple clutches	1
17	16-02-2024		Working of simple frictional brakes.	1
18	19-02-2024		Working of Absorption type of dynamometer	1
19	21-02-2024	Power Transmission	Concept of power transmission	1
20	22-02-2024		Type of drives, belt, gear and chain drive.	1
21	23-02-2024		Computation of velocity ratio, length of belts (open and cross) with and without slip	1
22	26-02-2024		Ratio of belt tensions, centrifugal tension and initial tension.	1
23	28-02-2024		Power transmitted by the belt.	1
24	29-02-2024		Determine belt thickness and width for given permissible stress for open and crossed belt considering centrifugal tension.	1
25	01-03-2024		V-belts and V-belts pulleys, Concept of crowning of pulleys.	1
26	04-03-2024		Gear drives and its terminology.	1
27	06-03-2024		Gear trains, working principle of simple, compound, reverted and epicyclic gear trains.	1
28	07-03-2024	Governors and Flywheel	Function of governor, Classification of governor	1
29	11-03-2024		Working of Watt, Porter, Proel and Hartnell governors.	1
30	13-03-2024		Conceptual explanation of sensitivity, stability and isochronisms.	1

31	14-03-2024	Governors and Flywheel	Function of flywheel, Comparison between flywheel & governor	1
32	15-03-2024		Fluctuation of energy and coefficient of fluctuation of speed.	1
33	18-03-2024	Balancing of Machine	Concept of static and dynamic balancing.	1
34	20-03-2024		Static balancing of rotating parts.	1
35	21-03-2024		Static balancing of rotating parts.	1
36	22-03-2024		Principles of balancing of reciprocating parts.	1
37	27-03-2024		Principles of balancing of reciprocating parts.	1
38	28-03-2024		Causes and effect of unbalance.	1
39	03-04-2024		Difference between static and dynamic balancing	1
40	04-04-2024	Vibration of machine parts	Introduction to Vibration	1
41	05-04-2024		Vibration related terms (Amplitude, time period and frequency, cycle)	1
42	08-04-2024		Classification of vibration.	1
43	10-04-2024		Basic concept of natural vibration	1
44	12-04-2024		Basic concept of forced vibration	1
45	15-04-2024		Basic concept of damped vibration	1
46	18-04-2024		Torsional and Longitudinal vibration.	1
47	19-04-2024		Causes of vibration.	1
48	22-04-2024		remedies of vibration.	1
49	24-04-2024		Revision	1
50	25-04-2024		Question and answer discussion	1
51	26-04-2024	Previous year question paper discussion	1	
			Total number of classes	51

  
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