Discipline:-				
MECHANICAL				
SUB:- Theory of machine (TH-1)	No of Days /per week class allotted:-4	Semester From Date:-10.03.2022ToDate:10.06.2022 No of Weeks-15		
Week	Class Day	TheoryTopics		
	1st	Introduction,Link,kinematicchain		
	2nd	Mechanism, machine		
1 ST	3rd	Fourbar linkmechanism		
	4th	Inversion		
	1st	Lower pairandhigher pair,		
	2nd	Cam andfollowers		
2 ND	3rd	Cam andfollowers		
	4th	Chapter-1Discussion of chapter and & probable Questions		
	1st	Friction between nutands crewfor square thread		
	2nd	Screw jack, Friction Related Problem		
	3rd	Bearinganditsclassification, Description of roller, needle roller & ball bearings		
3 RD	4th	Torquetransmissioninflat pivotbearings,		
	1st	Solve Numerical		
	2nd	Torquetransmissioninconicalpivotbearings,RelatedProblem		
4 TH	3rd	Torquetransmissioninflatcollarbearings single and multiple type,RelatedProblem		
	4th	Torquetransmissionfor singleandmultipleclutches, Related Problem		
5 TH	1st	Solve Numerical		
	2nd	Workingofsimplefrictionalbrakes		
	3rd	Workingof Absorptiontypeof dynamometer		
	4th	Solved numerical and probable question		
	1st	Conceptofpowertransmission, Typeofdrives, belt, gearand chain drive		
6 [™]	2nd	Computationofvelocityratio		
•	3rd	Lengthofbelts(open),RelatedProblem		
	4th	Lengthofbelts(cross),RelatedProblem		

	1st	Ratioof belt tensions, Related Problem	
7 th	2nd	Centrifugaltension, Related Problem	
-	3rd	Initialtension, Related Problem	
	4th	V-beltsandV-beltspulleys,crowningofpulleys	
	1st	Geardrivesanditsterminology	
8 th	2nd	Geartrains, Working principle of simple gear trains	
8	3rd	Workingprincipleofcompoundgeartrains	
	4th	Workingprincipleofrevertedgeartrains	
	1st	Workingprincipleof epicyclicgeartrains	
	2nd	Function of governor, Classification of governor	
9 th	3rd	Working of Wattgovernors,	
	4th	Solve RelatedProblem	
	1st	WorkingofPortergovernors,RelatedProblem	
	2nd	WorkingofProelgovernors, related problem	
10 th	3rd	WorkingofHartnellgovernors,	
	4th	Solve RelatedProblem	
	1st	Sensitivity, stability and is ochronism	
	2nd	Functionofflywheel,Comparisonbetween flywheel&governor	
11 th	3rd	Fluctuationofenergyandcoefficient offluctuation ofspeed	
	4th	Solve numerical of above chapter	
	1st	Discussion of probable question	
	2nd	Concept of staticanddynamicbalancing	
12 th	3rd	Staticbalancingofrotatingparts	
	4th	Principlesofbalancingofreciprocatingparts	
	1st	Principlesofbalancingofreciprocatingparts	
13 th	2nd	Causesandeffect of unbalance,	
13	3rd	Differencebetweenstaticanddynamicbalancing	
	4th	Discussionof probable question	
	1st	Vibrationandrelated terms (Amplitude, time	

		periodand frequency, cycle)	
14 th	2nd	Classification of vibration	
	3rd	Basicconceptofnaturalvibration	
	4th	Basicconceptofforcedvibration	
	1st	Basicconceptof dampedvibration	
15 th	2nd	Causes&remediesofvibration	
	3rd	Discussionof probable question	
	4th	Discussionof probable question	

Learning Resources:

SI No	Name of the Book	Author Name	Publisher
1	Text Book of Theory of Machine	R.S Khurmi	S.Chand
2	Text Book of Theory of Machine	R.K. Rajput	S.Chand
3	Text Book of Theory of Machine	P.L.Ballany	Dhanpat Rai
4	Text Book of Theory of Machine	Thomas Bevan	Pearsion