

Discipline Mechanical Engg.	Semester 4th	Name of the teaching faculty J. Patra.
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Subject Theory of Machine	No. of Days per. weeks 4	Semester starts :-> 10.03.2022 Semester ends :-> 30.06.2022 No. of weeks :-> 60
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Month	Week	Day	Topic Theory
MARCH	2nd	1st	Link, kinematic chain
		and	Mechanism, machine
		3rd	inversion
	3rd	1st	four bar mechanism & inversion
		and	lower pair & higher pair
		3rd	Cam & follower
		4th	friction betw ⁿ nut & screw of square thread
	4th	1st	Screw Jack
		and	Bearing classification
		3rd	Roller, needle, ball bearing
5th	4th	flat pivot bearing	
	1st	conical pivot bearing.	

Month	Week	Class Day	Theory Topic
March		2nd	flat collar bearing
		3rd	single & multiple clutch
April	1st	1st	simple brakes.
		2nd	Absorption type of dynamometer
		3rd	power transmission
		4th	Belt gear chain drive, velocity ratio
	2nd	1st	length, of belt (open)
		2nd	length of belt (cross)
		3rd	slip
		4th	Ratio of belt tension
	3rd	1st	Centrifugal tension
		2nd	initial tension
		3rd	power transmitted by belt
		4th	Thickness of belt
	4th	1st	width of belt
		2nd	v-belt

Month	Week	Class Day	Theory Topic
		2nd	v-blet pully
		4th	crowning of pulley.
	5th	1st	Gear
May	1st	1st	simple gear train
		2nd	compound gear train
		3rd	reverted gear train
		4th	epicyclic gear train
	2nd	1st	function of governor
		2nd	classification of governor
		3rd	watt Governor
		4th	porter Governor
	3rd	1st	proell Governor
		2nd	Hartnell Governor
		3rd	sensitivity
		4th	stability
	4th	1st	function of flywheel.

Month	Week	class Day	Theory Topic
		2nd	Dynamic balancing
		3rd	Balancing of reciprocating part
		4th	Cause of unbalance
	5th	1st	Cause of unbalance
June	1st	1st	- do -
		2nd	Amplitude
		3rd	time period
		4th	Difference betw ⁿ static & dynamic balancing
	2nd	1st	Frequency of cycle
		2nd	classification of vibration
		3rd	concept of natural vibration
		4th	concept of forced vibration
	3rd	1st	concept of damped vibration
		2nd	Torsional vibration
		3rd	- do -
		4th	longitudinal vibration
	4th	1st	- do -

