

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: <i>Mechanical</i>	Semester: <i>4th</i>	Name of the Teaching Faculty: <i>Ashutosh Satpathy</i>
Subject: <i>TOM</i>	No of Days/per week class allotted:	Semester from Date: <i>16.11.24</i> to Date: <i>26.11.24</i> No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Description of simple Mechanism, link
	2nd	kinematic chain, Mechanism & Machine
	3rd	———— DO ————
	4th	4 bar Link Mechanism Inversion
	5th	Define lower pair and higher pair
2nd	1st	Define cam and followers
	2nd	———— DO ————
	3rd	Define friction between nut and screw
	4th	———— DO ————
	5th	Define square thread
3rd	1st	Define screw Jack
	2nd	———— DO ————
	3rd	Classification of bearing
	4th	Description of roller
	5th	Needs of Roller & ball bearings
4th	1st	———— DO ————
	2nd	Torque transmission of flat pivot
	3rd	Conical pivot bearings
	4th	———— DO ————
	5th	Flat collar bearing of single plate
5th	1st	Flat collar bearing of Multiple plate
	2nd	———— DO ————
	3rd	———— DO ————
	4th	Working of Simple frictional brakes
	5th	———— DO ————

A. Satpathy
Sign of Faculty

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HOD

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Principal

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1st	1st	Working of Absorption type of dynamometer
	2nd	— DO —
	3rd	Concept of power transmission
	4th	Types of belt drives, gear drive
	5th	Types of chain drive
2nd	1st	velocity ratio of the belt drive
	2nd	— DO —
	3rd	velocity ratio with or without slip
	4th	Power transmitted of belt drive.
	5th	— DO —
3rd	1st	V-belt and V-belt pulleys.
	2nd	Concept of crowing pulleys.
	3rd	gear drive & its terminology
	4th	— DO —
	5th	Define Gear train & epicyclic train
4th	1st	— DO —
	2nd	Function of governor
	3rd	Classification of governor
	4th	Working of Define the diff diff types of governor
	5th	— DO —
5th	1st	Explain property of governor
	2nd	Function of flywheel
	3rd	— DO —
	4th	Diff ⁿ between flywheel & Governor
	5th	— DO —

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1st	1st	Fluctuation of energy, speed
	2nd	— DO —
	3rd	Define static & Dynamic balancing
	4th	Static balancing of rotating parts
	5th	— DO —
2nd	1st	Balancing of reciprocating parts
	2nd	effect of unbalance
	3rd	Distinguished between static & dynamic
	4th	— DO —
	5th	Define the vibration & classification
3rd	1st	— DO —
	2nd	Concept of forced and damped
	3rd	— DO —
	4th	Define torsional and longitudinal vibration
	5th	— DO —
4th	1st	— DO —
	2nd	Causes and Remedies of vibration
	3rd	— DO —
	4th	
	5th	
5th	1st	
	2nd	
	3rd	
	4th	
	5th	

A. S. S. S. S.
Sign of Faculty

S. S. S.
HOD

S. S. S.
Principal
16/11/24