The Lesson Plan

SYNERGY POLYTECHNIC, BBSR

Descipline:	Semester: 5th	Name of the Teaching Faculty: Ashutosh Satpathy
Subject: DME	No of Days/per week class allotted: 05	Semester from Date: 1.7.24 to Date: 18.11.24
Week	Class Day	No of Weeks: Theory/Practical Topics
1st	1st	Introduction to Machine design
	2nd	classify the Machine design
	3rd	Define the Mechanical Eng. Material
	4th	It uses and the Mechanical, physical
	5th	Property of the S.I & M.S.
2nd	1st	Define the Ws, ys, Us & FOS.
	2nd	Define the stress-strain curve of
	3rd	Define Modes of failure.
	4th	Define design of Machine element.
	5th	Describe design procedure.
3rd	1st	Define joints and types of welded joi
	2nd	Adrantage of welding joint and its property.
	3rd	Design the welding joints of eccentric
	4th	types and failure of riveted joints
	5th	Strength and efficiency of reverted joi
4th	1st	Design the reverted joints of pressu
	2nd	— DO —
	3rd	— DO —
	4th	Define function and Material for shaft
	5th	Design the solid and hollow shaft
5th	1st	at different condition
	2nd	— DO —
	3rd	— DO —
	4th	— DO —
	5th	— DO —

A. Satpathy
Sign of Faculty

HOD

Principal 22/6/24

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Descipline:	Semester:	Name of the Teaching Faculty:
Subject:	No of Days/per week class allotted:	Semester from Date: to Date: No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Define the standard size of shaft
	2nd	Function, type and Material for key
	3rd	Describe failure and effect of the key
	4th	—DO—
	5th	—DO—
2nd	1st	—DO—
	2nd	—DO—
	3rd	Design rectangular shunk key
	4th	According to Shear
	5th	According to Crushing
3rd	1st	—DO—
	2nd	—DO—
	3rd	Design the rectangular shunk key
	4th	as per the Diameter of the shaft
	5th	—DO—
4th	1st	—DO—
	2nd	Specifications of parallel key,
	3rd	gib head key, taper key
	4th	—DO—
	5th	—DO—
5th	1st	Solve numerical on Design of shaft
	2nd	and key
	3rd	—DO—
	4th	—DO—
	5th	—DO—

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Descipline:	Semester:	Name of the Teaching Faculty:
Subject:	No of Days/per week class allotted:	Semester from Date: to Date: No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Design of shaft coupling.
	2nd	Requirements of a good shaft coupling
	3rd	—DO—
	4th	—DO—
	5th	Types of coupling
2nd	1st	Design of sleave or Muff Coupling
	2nd	
	3rd	—DO—
	4th	Design of clamp coupling
	5th	—DO—
3rd	1st	Solve simple numerical
	2nd	—DO—
	3rd	—DO—
	4th	Introduction of helical spring
	5th	SWG of spring wire
4th	1st	Terms used in compression spring
	2nd	—DO—
	3rd	—DO—
	4th	Stress in helical spring
	5th	Deflection of helical spring
5th	1st	—DO—
	2nd	Surge in spring
	3rd	Solve numerical on spring
	4th	—DO—
	5th	—DO—

A. Sadpathy
Sign of Faculty

HOD

22/6/24
Principal