

# SYNERGY POLYTECHNIC, BBSR

## The Lesson Plan

Discipline:	Semester: 5th	Name of the Teaching Faculty: Ashutosh Sapaty
Subject: DME	No of Days/per week class allotted: 05	Semester from Date: 1.7.24 to Date: 18.11.24
Week	Class Day	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 Welding
	2nd	Advantage of welding joint and its
	3rd	property.
	4th	Design the welding joints of eccentric
	5th	types and failure of riveted joints
4th	1st	Strength and efficiency of riveted joints
	2nd	Design the riveted joints of pressure
	3rd	— DO —
	4th	— DO —
	5th	Define function and Material for shaft
5th	1st	Design the solid and hollow shaft
	2nd	at different condition
	3rd	— DO —
	4th	— DO —
	5th	— DO —

A. Sapaty  
Sign of Faculty

HOD

Principal 22/11/24

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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
	4th	key
	5th	— DO —
2nd	1st	— DO —
	2nd	— DO —
	3rd	Design rectangular sunk key
	4th	According to shear
	5th	According to crushing
3rd	1st	— DO —
	2nd	— DO —
	3rd	Design the rectangular sunk key
	4th	as per the Diameter of the shaft
	5th	— DO —
4th	1st	— DO —
	2nd	Specifications of parallel key,
	3rd	splined 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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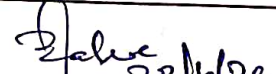
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Week	Class Day	No of Weeks:
		Theory/Practical Topics
1st	1st	Design of shaft coupling.
	2nd	Requirements of a good shaft coupling
	3rd	—DO—
	4th	—DO—
	5th	Types of coupling
2nd	1st	Design of sleeve or Muff coupling
	2nd	Coupling
	3rd	—DO—
	4th	Design 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—

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