

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: <u>Mechanical</u>		Semester: <u>6th</u>	Name of the Teaching Faculty: <u>Ashutosh Sapaty</u>
Subject: <u>AE & MV</u>		No of Days/per week class allotted:	Semester from Date: <u>16/1/24</u> to Date: <u>26/1/24</u> No of Weeks:
Week	Class Day	Theory/Practical Topics	
1st	1st	Automobile : Definitions	
	2nd	Automobile : Classification & needs	
	3rd	Layout of chassis	
	4th	— DO —	
	5th	Chassis analysis its major components	
2nd	1st	Clutch system : need and types	
	2nd	Working principle of clutch	
	3rd	— DO —	
	4th	Purpose and uses of gear box	
	5th	Construction and use of gear box	
3rd	1st	Concept of auto gear change Mechanism	
	2nd	— DO —	
	3rd	Construction of propeller shaft	
	4th	features of propeller shaft	
	5th	— DO —	
4th	1st	Needs and types of Differential	
	2nd	Working principle of Differential	
	3rd	— DO —	
	4th	Need and types of braking system	
	5th	— DO —	
5th	1st	Mechanical brake	
	2nd	Hydraulic brake	
	3rd	— DO —	
	4th	Air brake	
	5th	Define air assisted Hydraulic brake	

Ashutosh Sapaty
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Principal (6/1/24)

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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 vacuum brake
	2nd	———— DO ————
	3rd	Describe the Battery ignition system
	4th	Define the Magnet ignition system
	5th	———— DO ————
2nd	1st	Describe the purpose of spark plugs
	2nd	Construction and specifications of spark ^{plugs}
	3rd	———— DO ————
	4th	State the common ignition trouble
	5th	———— DO ————
3rd	1st	Conventional suspension system
	2nd	———— DO ————
	3rd	Define suspension system of Rear
	4th	Suspension system of front axle
	5th	Suspension system of coil springs
4th	1st	———— DO ————
	2nd	Working principle of ^{stock} shock absorber
	3rd	———— DO ————
	4th	Need and classification of Engine ^{cooling}
	5th	———— DO ————
5th	1st	Defects of cooling and their ^{remedies}
	2nd	———— DO ————
	3rd	Function of Lubrication
	4th	Lubrication system of S.I. Engine
	5th	———— DO ————

Asheesh Saha
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Principal 16/1/24

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Week	Class Day	Theory/Practical Topics
1st	1st	Describe Air fuel ration
	2nd	———— DO ————
	3rd	Describe Combustion Process
	4th	Fuel injection system for Petrol
	5th	———— DO ————
2nd	1st	Injection system for multi cylinder engine
	2nd	———— DO ————
	3rd	filter of Diesel engine
	4th	———— DO ————
	5th	Feed pump and fuel injector for Diesel engine.
3rd	1st	———— DO ————
	2nd	Introduction of Hybrid and E.v.
	3rd	Environment of Hybrid and E.v.
	4th	Description and Performance of E.v.
	5th	Types of Battery of E.v.
4th	1st	Types of Battery and fuel cells
	2nd	Types and uses of E.v.
	3rd	———— DO ————
	4th	Explain the Solar powered vehicle
	5th	———— DO ————
5th	1st	
	2nd	
	3rd	
	4th	
	5th	

Ashutosh Satyay
Sign of Faculty

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Principal 16/11/24