Peacock®

Regd No : 2607298

LESSON PLAN REGISTER

DEPARTMENT OF MECHANICAL ENGINEERING

BDSE, JHARSUGUDA

4M/6M- SEMESTER, WINTER/SUMMER 2022

SESSION: FROM.....TO.....

SUBJECT: MFT / AUTOMOBILE ENGG.

NAME OF FACULTY: Sipra patel

EXECUTIVE LONG BOUND EXERCISE BOOK

2024 (S)

Discipline	Semester	Name of the teaching faculty
Mechanical Engineering	6th	Sipra patel
Subject	No of days/Per week	Semester from
Automobile Engg.	4	16/01/24 to 25/04/24
		No of weeks
		13

week	class Day	Theory Topic
	Wed	- Introduction & Transmission System
1st	Thu	- Automobiles: Defination, need & classification.
	Mon	→ Layout of automobile chassis with major components.
	Tue	- Clutch system :- Need types (Single & multiple) & working principle with sketch.
2nd	Wed	
	Thu	- Ge "
	Mon	- Gear box, purpose of gear box, Construction.
	Tue	- "
3rd	Wed	- working of 4-speed gear box
	Thu	- Concept of automatic gear changing Mechanisms.

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	Mon	- propeller shaft : Constructional features
	Tue	- Differential : need, types & working principle.
4th		
	Wed	- "
	The	- Braking system :
	Mon	- Braking system in automobile, need & types.
	Tue	- Mechanical brake Hydraulic brake
5th	Wed	X
	The	- Air brake
	Mon	- Air assisted hydraulic brake
	Tue	- Vacuum brake
	Wed	- Ignition & Suspension System
6th		
	The	- Describe the battery ignition & magnet ignition system
	Mon	- Spark plugs : purpose, Construction
	The	- Specification
7th	Wed	- state the Common ignition troubles & its remedies.
	The	- Description of the Conventional Suspension system for rear & front axle.

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	Mon	- Description of Independent Suspension system used in cars (coil spring & tension bars)
	Tue	- Constructional features & working of a telescopic shock absorber.
8th	Wed	- Cooling & lubrication Engine cooling : Need & classification
	Thu	- Describe defects of cooling & their remedial measures.
	Mon	- Describe the function of lubrication → Describe the lubrication system of
	Tue	IC engine.
9th		
	Wed	- Fuel System - Describe air fuel ratio
	Thu	- Describe Carburation process for petrol engine.
	Mon	X
	Tue	X
10th		
	Wed	- Describe multipoint fuel injection System for petrol engine.
	Thu	- Describe the working principle of fuel injection System for multicylinder engine
	Mon	Mid for diesel engine.
	Tue	- Describe the working principle of fuel feed pump & fuel injection for diesel engine
11th	Wed	- Electric & hybrid vehicles- Introduction
	Thu	- Social & environmental importance of hybrid & electric vehicle.

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12 Hr	Mon	- Description of electric vehicle, operational advantages
	Tue	- present performance & application of electric vehicle.
	Wed	- Battery for electric vehicles, Battery types & fuels cell
	Thu	- "
13 Hr	Mon	- Hybrid vehicles, types of hybrid & electric vehicles -
	Tue	- "
	Wed	- x
	Thu	- parallel, series, parallel & series configuration.
14 Hr.	Mon	- 6.5 Drive train
	Tue	- Solar powered vehicle.