

Lesson Plan

Subject: AE&HV (Th -2)

Name of faculty: SATYABRATA MOHARANA

Semester: 6TH

Class allotted: 4p/week

Branch: Mechanical

Session: 2024(S)

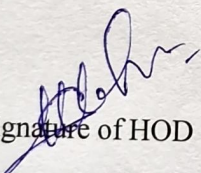
Discipline	Semester	From date:	To date:	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical –Topics/Lesson		
Week	Date/Period			
1	16/01/2024 TO 20/01/2024	Automobiles: Definition, need and classification: Layout of components (Line diagram) Clutch System: Need, Types (Single & Multiple) and Work		White Board Marker Smart board
2	22/01/2024 TO 27/01/2024	Gear Box: Purpose of gear box, Construction and working of a speed gear box Concept of automatic gear changing mechanisms		White Board Marker Smart board
3	29/02/2024 TO 03/02/2024	Propeller shaft: Constructional features Differential: Need, Types and Working principle		White Board Marker Smart board
4	05/02/2024 TO 10/02/2024	Braking systems in automobiles: Need and types Mechanical Brake Hydraulic Brake Air Brake		White Board Marker Smart board

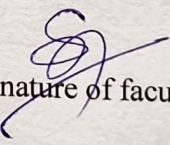
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Week	Date/Period	Theory/ Practical –Topics/Lesson	TeachingAid
5	12/02/2024 TO 17/02/2024	Air assisted Hydraulic Brake Vacuum Brake Describe the Battery ignition and Magnet ignition system Spark plugs: Purpose, construction and specifications	White Board Marker Smart board
6	19/02/2024 TO 24/02/2024	State the common ignition troubles and its remedies Description of the conventional suspension system for Rear and Front a	White Board Marker Smart board
7	26/02/2024 TO 02/03/2024	Description of independent suspension system used in cars (coil spring and bars) Constructional features and working of a telescopic shock absorber	Marker White board
8	04/03/2024 TO 09/03/2024	COOLING AND LUBRICATION: Engine cooling: Need and classification Describe defects of cooling and their remedial measures	White Board Marker Smart board
9	11/03/2024 TO 16/03/2024	Describe the Function of lubrication Describe the lubrication System of I.C. engine	White Board Marker Smart board
10	18/03/2024 TO 23/03/2024	Describe Air fuel ratio Describe Carburetion process for Petrol Engine	Marker White Board Smart board
11	27/03/2024 TO 30/03/2024	Describe Multipoint fuel injection system for Petrol Engine Describe the working principle of fuel injection system for multi cylinder Engine	White Board Marker Smart board

12	02/04/2024 TO 06/04/2024	Filter for Diesel engine. Describe the working principle of Fuel feed pump and Fuel Injector for Diesel engine Introduction, Social and Environmental importance of Hybrid and Electric	Marker White Board Smart board
13.	08/04/2024 TO 13/04/2024	Description of Electric Vehicles, operational advantages, present performance applications of Electric Vehicles Battery for Electric Vehicles,	White Board Marker Smart board
14	15/04/2024 TO 20/04/2024	Battery types and fuel cells Hybrid vehicles, Types of Hybrid and Electric Vehicles: Parallel, Series, Parallel and Series configurations	White Board Marker Smart board
15	22/ 04/2024 TO 26/04/2024	Drive train Solar powered vehicles	White Board Marker Smart board


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