

LESSON PLAN

Academic Session :- SUMMER 2024									
Subject- AE & HV		Subject Code- TH-2		Total Periods:- 60 per Semester					
Teacher:- Er. SHUBHASINI MUDULI (GF , MECHANICAL)				Theory:- 4p/week					
W.E.F : 16/01/2024				SEMESTER:- 6TH					
MONTH	WEEK	CLASS DAY	UNIT NO/PERIOD	SYLLABUS TO BE COVERED	SYLLABUS ACTUAL	SHORT FALL	Signature		
J A N U A R Y	1st	1st	12	INTRODUCTION AND TRANSMISSION SYSTEM : 1 Automobile : Defination, Need and Classification					
		2nd		INTRODUCTION AND TRANSMISSION SYSTEM : 1 Automobile : Defination, Need and Classification					
		3rd		Layout of automobile chassis with major components (Line diagram)					
		4th		Layout of automobile chassis with major components (Line diagram)					
	2nd	1st		Clutch System: Need, Types (Single & Multiple)					
		2nd		Working principle with sketch					
		3rd		Gear Box: Purpose of gear box					
		4th		Construction and working of a 4 speed gear box					
	3rd	1st		Concept of automatic gear changing mechanisms					
		2nd		Propeller shaft: Constructional features					
		3rd		Propeller shaft: Constructional features					
		4th		Propeller shaft: Constructional features					
	4th	4th		1st	5	Differential: Need, Types and Working principle			
				2nd		Differential: Need, Types and Working principle			
				3rd		BRAKING SYSTEMS: Braking systems in Automobiles : Need and types			
				4th		Mechanical Brake & Hydraulic Brake			
5th		1st	Air Brake						
		2nd	Air assisted Hydraulic Brake						
		3rd	Vacuum Brake						

F E B R U A R Y	5th	4th	10	IGNITION & SUSPENSION SYSTEM: Describe the Battery ignition and Magnet ignition system				
		6th		1st	Spark plugs: Purpose			
				2nd	construction and specifications			
				3rd	State the common ignition troubles and its remedies			
	4th			State the common ignition troubles and its remedies				
	7th	1st		Description of the conventional suspension system for Rear and Front axle				
		2nd		Description of independent suspension system used in cars (coil spring and tension bars)				
		3rd		Constructional features and working of a telescopic shock absorber				
		4th		Constructional features and working of a telescopic shock absorber				
	8th	1st		8	Constructional features and working of a telescopic shock absorber			
		2nd			Constructional features and working of a telescopic shock absorber			
		3rd			COOLING AND LUBRICATION: Engine cooling: Need and classification			
		4th			Engine cooling: Need and classification			
	9th	1st			Describe defects of cooling and their remedial measures			
		2nd			Describe defects of cooling and their remedial measures			
		3rd			Describe the Function of lubrication			
4th		Describe the Function of lubrication						
10th	1st	10	Describe the lubrication System of I.C. engine					
	2nd		FUEL SYSTEM: Describe Air fuel ratio					
	3rd		FUEL SYSTEM: Describe Air fuel ratio					
	4th		Describe Carburetion process for Petrol Engine					
11th	1st		Describe Carburetion process for Petrol Engine					
	2nd		Describe Multipoint fuel injection system for Petrol Engine					
	3rd		Describe the working principle of fuel injection system for multi cylinder					
	4th		Filter for diesel engine					
MARCH			1st	Filter for diesel engine				

	12th	2nd	15	Describe the working principle of Fuel feed pump and Fuel Injector for Diesel engine				
		3rd		Describe the working principle of Fuel feed pump and Fuel Injector for Diesel engine				
		4th		Describe the working principle of Fuel feed pump and Fuel Injector for Diesel engine				
	13th	1st		ELECTRIC AND HYBRID VEHICLES: Introduction, Social and Environmental importance of Hybrid and Electric Vehicles				
		2nd		Describe the working principle of Fuel feed pump and Fuel Injector for Diesel engine				
		3rd		Description of Electric Vehicles, operational advantages				
		4th		present performance and applications of Electric Vehicles				
	APRIL	14th		1st	Battery for Electric Vehicles, Battery types and fuel cells			
				2nd	Hybrid vehicles, Types of Hybrid and Electric Vehicles: Parallel			
				3rd	Series, Parallel and Series configurations			
				4th	Drive train			
		15th		1st	Drive train			
2nd			Solar powered vehicles					
3rd			Solar powered vehicles					
4th			REVISION					

Subhasini Modali