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DSCIPLINE : MECHANICAL ENGG.		Semester: 6th		Name of the Teaching Faculty :Thakura Hansdah
Subject :Automobile Engg& Hybrid Vehicle(C311)		No. of Days / per week class allotted : 04	CHAPTER	Semester From date: 13.02.2023 To Date: 23.05.2023
MONTH	Week	Day		Topics
		1st		1.0 INTRODUCTION & TRANSMISSION SYSTEM:
		2nd		Automobiles: Definition, need
FEBRUARY	3rd			Classification: Layout of automobile chassis with major components (Line diagram)
		3rd	CHAPTER-1	
		4th		Clutch System: Need, Types
	4th	1st		Working principle with sketch of single clutch
		2nd		Working principle with sketch of Multiple clutch
		3rd		Gear Box: Purpose of gear box, Construction and working of a 4 speed gear box
		4th		Propeller shaft: Constructional features
	5TH	1st		Differential: Need, Types and Working principle
	3111	2nd		Differential: Need, Types and Working principle
				2.0BRAKING SYSTEM:
	1st	3rd		Braking systems in automobiles: Need and types
		4th	CHAPTERIZ	Mechanical Brake
	2nd	1st		Hydraulic Brake
	2110	4th		Air Brake
		1st		Air assisted Hydraulic Brake
		2nd		Vacuum Brake

	3rd			3.0IGNITION & SUSPENSION SYSTEM:
MARCH		3rd		Describe the Battery ignition and Magnet ignition system
		4th		Spark plugs: Purpose, and Spark plugs: construction
	4th	1st		Spark plugs: specification
		2nd	CHAPER'S	State the common ignition troubles and its remedies
		3rd		CLASS TEST-1
		4th		Description of the conventional suspension system for Rear and Front axle
		1st		Description of the conventional suspension system for Rear and Front axle
				Description of independent suspension system used in cars (coil spring and
	5TH	2nd		tension bars)
				Description of independent suspension system used in cars (coil spring and
		3rd		tension bars)
		1st		Constructional features and working of a telescopic shock absorber
				4.0COOLING AND LUBRICATION:
	2nd	2nd	CHAPIER.A	Engine cooling: Need and classification
		3rd		Describe defects of cooling and their remedial measures
		4th		Describe the Function of lubrication
	3rd	1st		Describe the lubrication System of I.C. engine
		2nd		Describe the lubrication System of I.C. engine
		4th		QUESTION DISCUSSION
40				FUEL SYSTEM:
APRIL	4th	1st		Describe Air fuel ratio
,		2nd		Describe Carburetion process for Petrol Engine
		3rd		Describe Multipoint fuel injection system for Petrol Engine
			182	Describe the working principle of fuel injection system for multi
		4th	CHAPTERS	cylinder Engine
	5TH	1st	7 0	Filter for Diesel engine
		2nd		INTERNAL EXAMINATION.
		3rd		Describe the working principle of Fuel feed pump for Diesel engine
		4th		Describe the working principle of Fuel Injector for Diesel engine
				5.0ELECTRIC AND HYBRID VEHICLES:
		1st		Introduction
		1st		Introduction

	1ST	2nd		Social and Environmental importance of Hybrid and Electric Vehicles
		3rd	7	Description of Electric Vehicles,
		4th		operational advantages, present performance of Electric Vehicles
	2nd	1st		applications of Electric Vehicles
		2nd		Battery for Electric Vehicles, Battery types and fuel cells
				Hybrid vehicles, Types of Hybrid and Electric Vehicles: Parallel, Series, Parallel and
nat		3rd		Series configurations
			7 (66,00	Hybrid vehicles, Types of Hybrid and Electric Vehicles: Parallel, Series, Parallel and
		4th	CHAPTERS	Series configurations
	3rd		7 0.	Hybrid vehicles, Types of Hybrid and Electric Vehicles: Parallel, Series, Parallel and
		1st		Series configurations
		2nd		Solar powered vehicles
		3rd		CLASS TEST-2
		4th		previous year question discussion
	4th	1st		previous year question discussion
		2nd		previous year question discussion

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MECHANICAL ENGINEERING

SUBJECT EXPERT ACADEMIC COORDINATOR