

GOVT. POLYTECHNIC MAYURBHANJ LESSON PLAN

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Discipline : MECHANICAL ENGG.		Semester: 6th Semester		Name of the Teaching Faculty :Thakura Hansdah
Subject : Automobile Engg.(C311)		No. of Days / per week class allotted : 04	CHAPTER	Semester From date : 10.03.2022 To Date : 10.06.2022
MONTH	Week	Day	CHAPTER	Topics
MARCH	1ST	4TH	CHAPTER-1	1.0 INTRODUCTION & TRANSMISSION SYSTEM: Automobiles
	2ND	1st		Automobiles: Definition, need
		2nd		Classification: Layout of automobile chassis with major components (Line diagram)
		4TH		Classification: Layout of automobile chassis with major components (Line diagram)
		4th		Clutch System: Need, Types
	4th	1st		Working principle with sketch of single clutch
		2nd		Working principle with sketch of Multiple clutch
		4TH		Gear Box: Purpose of gear box, Construction and working of a 4 speed gear box
		4th		Working of sliding mesh gear box
	5TH	1st		Working of constant mesh gear box
		2nd		Working of syncromesh mesh gear box
		4TH		Propeller shaft: Constructional features
		4TH		Differential: Need, Types and Working principle

APRIL	2ND	1st	CHAPTER-2	2.0 BRAKING SYSTEM:
		2nd		Braking systems in automobiles: Need and types
		4th		Mechanical Brake
		4th		Hydraulic Brake
	3rd	1st		Hydraulic Brake
		2nd		Air Brake
	4th	1st		CLASS TEST-1
		2nd		Air assisted Hydraulic Brake
		4TH	Vacuum Brake	
		4th	3.0 IGNITION & SUSPENSION SYSTEM:	
	5TH	1st	CHAPTER-3	Describe the Battery ignition and Magnet ignition system
		2nd		Spark plugs: Purpose, and Spark plugs: construction
		4TH		Spark plugs: specification
		4th		State the common ignition troubles and its remedies
1ST	1st	State the common ignition troubles and its remedies		
	2nd	Description of the conventional suspension system for Rear and Front axle		
	4TH	Description of the conventional suspension system for Rear and Front axle		
	4TH	Description of independent suspension system used in cars (coil spring and tension bars)		
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	1st	QUESTION DISCUSSION		
	1st	Constructional features and working of a telescopic shock absorber		

MAY	2nd	2nd	CHAPTER-4	4.0 COOLING AND LUBRICATION: Engine cooling: Need and classification
		4TH		Describe defects of cooling and their remedial measures
		4th		INTERNAL EXAMINATION.
	3rd	1st		Describe the Function of lubrication
		2nd		Describe the lubrication System of I.C. engine
		4th		Describe the lubrication System of I.C. engine
	4th	1st	CHAPTER-5	QUESTION DISCUSSION
		2nd		5.0FUEL SYSTEM: Describe Air fuel ratio
		4TH		Describe Carburetion process for Petrol Engine
		4th		Describe Multipoint fuel injection system for Petrol Engine
	5TH	1st		Describe the working principle of fuel injection system for multi cylinder Engine
		2nd		Filter for Diesel engine&Describe the working principle of Fuel feed pump for Diesel engine
		4TH		Describe the working principle of Fuel Injector for Diesel engine
		4th		x
		4th		x
	1ST	4th		
4th		Description of Electric Vehicles, operational advantages, present performance of Electric Vehicles		

JUNE	2nd	1st	CHAPTER-6	applications of Electric Vehicles&Battery for Electric Vehicles, Battery types and fuel cells
		2nd		Hybrid vehicles, Types of Hybrid and Electric Vehicles: Parallel, Series, Parallel and Series configurations
		4th		CLASS TEST-2
		4th		Solar powered vehicles.

HOD
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