

Discipline - Mechanical
Subject - AEHV

Semester - 6th
No. of days classes allotted - 5

Name of the faculty -
MoDebashree Gayatri Reddy
Semester from 10/03/22 to 10/06/22

Week	Class day	Theory Topics
	1st	Introduction
10th March to 12th March	2nd to 3rd	Definition, need & classification Layout of chassis with components
14th March to 19th March	1st to 2nd	Manufacture specification of auto engines Classification of engines based on working principle
	3rd	What is clutch, need & Types
	4th	Doler Pulverize
	5th	Hole
21st March to 26th March	1st to 3rd	Working principle of clutch with sketch What is Gear Box, Definition Purpose of Gear Box, Construction Working of 4 speed gear Box
	4th	Concept of automatic gear changing mechanism
	5th	Definition of propeller shaft
28th March to 2nd April	1st to 3rd	Construction of propeller shaft Definition of differential gear
	4th	Utkal Deba
	5th	Types & working principle of Differential
4th April to 9th April	1st to 3rd	Braking system, need & Types Types of brake with example Mechanical & Hydraulic Brake
	4th	Air Brake
	5th	Air assisted Hydraulic Brake & vacuum brake

Week	Class day	Theory topics
11th April to 16th April	1st	Wiring diagrams of horn-circuit.
	2nd	Lighting circuit, wiper circuit.
	3rd	Voltage current regulator circuit.
	4th	State the common ignition troubles.
	5th	Remedies for common ignition.
18th April to 23rd April	1st	Purpose, construction & specification of spark plug.
	2nd	Describe the conventional suspension system for rear & front axle.
	3rd	Description of independent suspension system used in cars.
	4th	Construction & working of a telescopic shock absorber.
	5th	State tyre specifications.
25th April to 30th April	1st	Explain about causes & remedies of tyre wear.
	2nd	Define what is cooling.
	3rd	Definition of lubrication & uses of oil.
	4th	Doubt clearing.
	5th	Describe what is engine's need of engine.
2nd May to 7th May	1st	Describe necessity of engine cooling.
	2nd	Define types of cooling systems.
	3rd	Define defects of cooling.
	4th	Define cooling remedial measures.
	5th	Describe about lubrication.
	5th	Describe types of lubrication.

Week	Class day	Theory topics
9th May to 14th May	1st	Define the function of lubrication.
	2nd	Define the role of engine.
	3rd	Define types of engine.
	4th	Define the lubrication system of IC engine.
	5th	Define Fuel System & Ignition for petrol engine.
16th May to 21st May	1st	Buddha Purana.
	2nd	Define the role of Carburetors, Air-fuel ratio.
	3rd	Define Ignition system & describe different types of it.
	4th	Describe about Battery Ignition system & Magnet Ignition system.
	5th	Define about multipoint fuel injection system.
23rd May to 28th May	1st	Define fuel & Ignition system for Diesel engine.
	2nd	Working principle of Fuel feed pump.
	3rd	Working principle of Fuel injector & filter.
	4th	Describe the fuel injection system.
	5th	Introduction to Electric & Hybrid Vehicles.
30th May to 4th June	1st	Description of Electric Vehicles.
	2nd	Advantages & Applications of it.
	3rd	Battery of Electric Vehicles.
	4th	Battery types & fuel cells.

Week	Class day	Theory topics
	4th	Hybrid Vehicles
	5th	Types of Hybrid & Electric Vehicles
	1st	Parallel circuits
6th June to 10th June	2nd	Parallel & series configuration
	3rd	Drive train
	4th	Solar powered train vehicles
	5th	Revision