

Discipline:
Mechanical

Semester: 6th

Name of the faculty:
E. M. Debasree Gayathri Reddy

Subject:
AEHV

No. of days/
classes allotted: 05

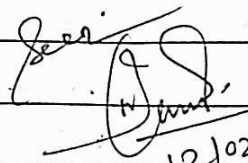
Semester from - 14/02/23
to 23/05/23.

Week	Class Day	Theory Topics
	1 st	Introduction
4 th Feb	2 nd	Definition, need & classification
to	3 rd	Layout of chassis with the
1 st Feb		components.
	1 st	Manufactures specification of
2 nd Feb		autoengines.
to	2 nd	Classification of Engines loading
1 st Feb		Working Principle.
	3 rd	What is clutch, need & Types
	4 th	Single Plate Clutch
	5 th	Multi Plate Clutch
	1 st	Working principle of both clutch
7 th Feb		with sketch.
to	2 nd	What is Gear Box, Definition.
1 st March	3 rd	Purpose of Gear Box, Construction
	4 th	Working of 4 speed gear box
	5 th	Concept of automatic gear
		changing mechanism.
	1 st	Definition of propeller shaft
6 th March		Construction of propeller shaft.
to	2 nd	Dola Purvama
1 st March	3 rd	Definition of differential.
	4 th	Types of differential.
	5 th	Working Principle of differential.
	1 st	Braking system, need & Types.
15 th March	2 nd	Types of brake with example
to	3 rd	Mechanical & Hydraulic Brake
18 th March	4 th	Air Brake.
	5 th	Air assisted Hydraulic Brake
		& Vacuum Brake.

Week	Class Day	Theory Topics
	1st	Working diagram of horn circuit
20th March	2nd	Lighting circuit, cut out circuit
to	3rd	Voltage current regulator circuit
25th March	4th	State the common ignition troubles
	5th	Remedies for common ignition
	1st	Purpose, construction, & specification of spark plug.
27th March	2nd	Describe conventional suspension system for rear & front axle
to	3rd	Rama Navami
1st April	4th	Description of independent suspension system used in cars.
	5th	Utkal Debas
	1st	Telescope shock Absorber
3rd April	2nd	Type specifications.
to	3rd	Causes & remedies of Tyre Wear.
8th April	4th	Good Friday
	5th	Define what is cooling.
	1st	Definition of lubrication & use of
10th April	2nd	Describe what is engine & need of engine.
to	3rd	Describe necessity of engine cooling.
15th April	4th	Maha Vesuba Sankranti
	5th	Different types of cooling system; defects & its cooling remedial measures.

Week	Class Day	Theory Topics
	1st	Describe the function of lubrication
7th April	2nd	Define the role of Engine
do	3rd	Define types of Engine
2nd April	4th	Define lubrication system of IC Engine.
	5th	Id. Ul. Petrol.
4th April	1st	Define fuel system & Ignition for petrol Engine.
do	2nd	Define the role of carburetors, Air-fuel ratio.
1st April	3rd	Define Ignition system & describe different types of it.
	4th	Describe about Battery Ignition system & Magneto Ignition system.
	5th	Define Multipoint fuel Ignition system.
1st May	1st	Define fuel & Ignition system for Diesel Engine
do	2nd	Working principle of Fuel Injector & filter.
2nd May	3rd	Working principle of Fuel feed pump.
	4th	Describe the fuel Injection system.
	5th	Introduction to Electric & Hybrid Vehicles.
8th May	1st	Description of Hybrid Vehicles
do	2nd	Advantages of Hybrid vehicles & its application.
5th May	3rd	Battery of the Electric Vehicles.

Week	Class Day	Theory Topics
	4th	Battery Types
	5th	Fuel cells
	1st	Hybrid Vehicles
15th May	2nd	Types of Hybrid Vehicles
to	3rd	Types of Electric Vehicles
20th May	4th	Sabitra Amabasya
	5th	Parallel, Series Configuration
	1st	Drive train
22nd May	2nd	Solar powered Vehicles
to		and its usage
5th May		Revision


 12/02/23