

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF
ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN
Session-2022-2023

Discipline: Mechanical Engg. Semester: 6th

Name of the Teaching Faculty: Saemya Prakash Rath

Subject: AE & HVNo. of Days/per week class allotted 04Semester From Date : 14/02/2023 To Date : 23/05/2023 No. of Weeks : 15

Week	Class Day	Theory/Practical Topics
01	01	Introduction to Automobile Engg.
	02	Defination of Automobile Engg
	03	Need of Automobile Engg
	04	classification of Automobiles
02	01	Layout of Automobile chassis
	02	Major components of Automobile
	03	Clutch, Need, Types of clutch
	04	Working principle of clutch
03	01	Gear box, Purpose, construction & working
	02	Concept of Automobile (Automatic) Gear changing mechanism
	03	Propeller Shaft, constructional features
	04	Differential, Need, types & Working principle

Sacumya Prakash Nath
Signature of the Faculty

Subject: AE & HV No. of Days/per week class allotted 04
 Semester From Date: 14/02/2023 To Date: 22/05/2023 / No. of Weeks: 15

Week	Class Day	Theory / Practical Topics
04	01	Breaking Systems in Automobile
	02	Mechanical breaking
	03	Hydraulic brake
	04	Air Brake, Air assisted Hydraulic brake
05	01	Vacuum brake
	02	Introduction to Ignition & Suspension system
	03	Describe Battery Ignition system
	04	Magneto-Ignition system
06	01	Spark plug (purpose)
	02	Construction & Specification of Spark plug
	03	Common Ignition trouble & its Remedies
	04	Suspension system for Rear & front axle

Sangmesh Patel
 Signature of the Faculty

Subject: AE & HV No. of Days/per week class allotted 04
 Semester From Date : 14/02/2023 To Date : 23/05/2023 No. of Weeks : 15

Week	Class Day	Theory / Practical Topics
07	01	Independent suspension system
	02	Coil spring & Tension bar
	03	Telescopic shock absorber
	04	Introduction to cooling & Lubrication
08	01	Need of Engine cooling
	02	classification of Engine cooling
	03	Defects of cooling
	04	Remedial measures for defect of cooling.
09	01	Function of Lubrication
	02	Lubrication system of I.C engine
	03	Discussion of MCR _c
	04	Introduction to fuel system

Signature of the Faculty
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Subject: AE & HV No. of Days/per week class allotted 04

Semester From Date: 14/02/2023 To Date: 23/05/2023 No. of Weeks: 15

Week	Class Day	Theory /Practical Topics
10	01	Describe Air-fuel Ratio
	02	Describe Carburetor
	03	Carburetion process for Petrol engine
	04	Multi-point fuel injection system for Petrol engine
11	01	Working principle of fuel injection system for multi-cylinder engine
	02	Filters for diesel engine
	03	Working principle of fuel feed pump.
	04	Fuel injector for diesel engine
12	01	Discussion of MCQs
	02	Introduction to Electric & Hybrid Vehicle
	03	Social & environmental importance of Hybrid vehicle
	04	Description of Electric vehicle, operational advantage

Sangmesh Mishra
Signature of the Faculty

Subject: AE & HV No. of Days/per week class allotted 04

Semester From Date: 14/02/2023 To Date: 23/05/2023 No. of Weeks: 15

Week	Class Day	Theory / Practical Topics
13	01	Present performance & application of Electric vehicle
	02	Battery for Electric vehicle
	03	Fuel cells & Battery types
	04	Hybrid vehicles
14	01	Types of Hybrid vehicle & Electric Vehicles
	02	Parallel & Series configuration
	03	Drive Train
	04	Discussion of MCQs
15	01	Solar powered vehicles
	02	Doubt clearing class
	03	Overall chapter discussion
	04	Overall subject discussion


Signature of the Faculty