

GANESH INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC**DEPARTMENT OF MECHANICAL ENGINEERING****NAME- SMRUTI RANJAN ROUTRAY****LESSON PLAN CUM PROGRESS REPORT**

SUBJECT: AUTO ENGINE		SEMESTER- 4TH	BRANCH: AUTOMOBILE ENGINEERING		
LECTURE NO.	CO	TOPIC TO BE COVERED	PLAN DATE	ACTION DATE	REVIEW BY HOD
1	co1	AUTO ENGINES: Indian Automobiles, Types of Automobiles	1/5/2026		
2	co1	Types of Automobiles, Layout, Components and functions of the Automobile	1/6/2026		
3	co1	Types of Automobiles, Layout, Components and functions of the Automobile	1/7/2026		
4	co1	Classification of Automobile Engines:	1/8/2026		
5	co1	Classification of Automobile Engines:	1/12/2026		
6	co1	Use of Engines, Merits and Demerits of vertical and Horizontal Engines,	1/13/2026		
7	co1	Use of Engines, Merits and Demerits of vertical and Horizontal Engines,	1/15/2026		
8	co1	Basic concepts of engine- TDC, BDC, Bore, Stroke, Mean effective pressure, IP, BHP, Engine torque, weight to power ratio, fuel efficiency and specific power output.	1/19/2026		
9	co1	Basic concepts of engine- TDC, BDC, Bore, Stroke, Mean effective pressure, IP, BHP, Engine torque, weight to power ratio, fuel efficiency and specific power output.	1/20/2026		
10	co1	Basic concepts of engine- TDC, BDC, Bore, Stroke, Mean effective pressure, IP, BHP, Engine torque, weight to power ratio, fuel efficiency and specific power output.	1/21/2026		
11	co1	Working principle of two stroke & four stroke petrol engine.	1/22/2026		
12	co1	Working principle of two stroke & four stroke petrol engine.	1/27/2026		
13	co1	Working principle of two stroke & four stroke diesel engine.	1/28/2026		

14	co2	Working principle of two stroke & four stroke diesel engine.	1/29/2026		
15	co2	Reasons for Using Single-cylinder Two stroke Air Cooled Petrol Engine on Two Wheelers.	2/2/2026		
16	co2	Reasons for Using Single-cylinder Two stroke Air Cooled Petrol Engine on Two Wheelers.	2/3/2026		
17	co2	Reasons for Using Multi- Cylinder Diesel Engine For Commercial Vehicles,	2/4/2026		
18	co2	Reasons for Using Multi- Cylinder Diesel Engine For Commercial Vehicles,	2/5/2026		
19	co2	Merits and Demerits of Two Stroke and Four Stroke Cycle Engines	2/9/2026		
20	co2	Merits and Demerits of Two Stroke and Four Stroke Cycle Engines	2/10/2026		
21	co2	Advantages of a Multi-cylinder Engine for the same power	2/11/2026		
22	co2	Advantages of a Multi-cylinder Engine for the same power	2/12/2026		
23	co2	AUTOMOTIVE FUELS: Types of fuels and their origin	2/16/2026		
24	co2	General properties of automotive fuel and their constituents	2/17/2026		
25	co2	Specifications as per IS standards of Automotive fuels and their relevance in various structural and functional aspects	2/18/2026		
26	co2	Octane number, Octane rating of Automotive fuels, Unleaded petrol-necessity and identification,	2/19/2026		
27	co2	Vitality of conservation of convention fuels in the context of vehicular pollution and population and resource depletion	2/23/2026		
28	co2	Necessity of alternate energy sources – Properties and suitability of Alcohol, Benzole and other vegetable oils, Additives in fuels & their roles, Alternative Automobile fuels	2/24/2026		
29	co2	Necessity of alternate energy sources – Properties and suitability of Alcohol, Benzole and other vegetable oils,	2/25/2026		

		Additives in fuels & their roles, Alternative Automobile fuels			
30	co2	Necessity of alternate energy sources – Properties and suitability of Alcohol, Benzole and other vegetable oils, Additives in fuels & their roles, Alternative Automobile fuels	2/26/2026		
31	co2	FUEL INJECTION SYSTEM IN PETROL ENGINE: Introduction, Fuel System for Petrol Engine, Gravity Feed System, Fuel Pumps,	3/2/2026		
32	co2	FUEL INJECTION SYSTEM IN PETROL ENGINE: Introduction, Fuel System for Petrol Engine, Gravity Feed System, Fuel Pumps,	3/5/2026		
33	co3	FUEL INJECTION SYSTEM IN PETROL ENGINE: Introduction, Fuel System for Petrol Engine, Gravity Feed System, Fuel Pumps,	3/9/2026		
34	co3	FUEL INJECTION SYSTEM IN PETROL ENGINE: Introduction, Fuel System for Petrol Engine, Gravity Feed System, Fuel Pumps	3/10/2026		
35	co3	Properties of Air Fuel Mixture, Engine Requirements, Throttle valve Carburetors - Limited use of Carburetors in modern car – reason	3/11/2026		
36	co3	Properties of Air Fuel Mixture, Engine Requirements, Throttle valve Carburetors - Limited use of Carburetors in modern car – reason	3/12/2026		
37	co3	Properties of Air Fuel Mixture, Engine Requirements, Throttle valve Carburetors - Limited use of Carburetors in modern car – reason	3/16/2026		
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39	co3	Classification of Petrol fuel Injection System, Advantage of Port Fuel Injection or Multipoint Fuel Injection System	3/18/2026		
40	co3	Classification of Petrol fuel Injection System, Advantage of Port Fuel Injection or Multipoint Fuel Injection System	3/19/2026		

41	co3	Classification of Petrol fuel Injection System, Advantage of Port Fuel Injection or Multipoint Fuel Injection System,	3/23/2026		
42	co3	Advantages and Disadvantages of Fuel Injection System.	3/24/2026		
43	co3	Advantages and Disadvantages of Fuel Injection System.	3/25/2026		
44	co3	Introduction, Properties of Diesel Fuel, Combustion Process in C.I.Engines,	3/26/2026		
45	co3	Diesel Knock, Types of C.I. Combustion Chambers, Open Combustion Chamber, Pre Combustion Chamber, Turbulence Combustion Chamber, Air Cell Combustion Chamber, Energy Cell Combustion Chamber	3/30/2026		
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50	co4	, Fuel Injection System, Fuel Injection Pump for Diesel Engine, Diesel Injector,Governor	4/8/2026		
51	co4	Fuel Injection System, Fuel Injection Pump for Diesel Engine, Diesel Injector,Governor	4/9/2026		
52	co4	Fuel Injection System, Fuel Injection Pump for Diesel Engine, Diesel Injector,Governor	4/13/2026		
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