

GOVERNMENT POLYTECHNIC GARIYABAND

GARIYABAND (C.G.)

LESSION PLAN

SESSION - JULY-DEC 2025

NAME OF FACULTY : CHANDRESH KUMAR DEWANGAN

DESIGNATION : LECTURER (MECHANICAL)

DEPARTMENT : MECHANICAL ENGINEERING

COURSE : AUTOMOBILE ENGINEERING

COURSE CODE :
2037571(037)

SEMESTER : V

SESSION STARTS FROM : 25.08.2025

Lecture No.	Unit No.	Topic to be Covered	Planned Date	Execution Date	Remarks
1	1	Introduction & Classification of Automobiles	25.08.2025	01/12/25	Lecture + Diagram + Discussion
2	1	Automobile Layouts & Major Components	26.08.2025	01/12/25	Lecture + Diagram + Discussion
3	1	Chassis – Types & Construction	27.08.2025	01/12/25	Lecture + Diagram + Discussion
4	1	Frame & Body – Types and Functions	01.09.2025	01/12/25	Lecture + Diagram + Discussion
5	1	Aerodynamics & Vehicle Performance	02.09.2025	02/12/25	Lecture + Diagram + Discussion
6	1	Types of Automobile Engines	03.09.2025	02/12/25	Lecture + Diagram + Discussion
7	1	Engine Construction & Major Parts	08.09.2025	02/12/25	Lecture + Diagram + Discussion
8	1	Lubrication & Cooling System	09.09.2025	02/12/25	Lecture + Diagram + Discussion
9	2	Fuel Supply System (Petrol Engine)	10.09.2025	03/12/25	Lecture + Diagram + Discussion
10	2	Fuel Supply System (Diesel Engine)	15.09.2025	03/12/25	Lecture + Diagram + Discussion
11	2	Carburetor – Construction & Working	16.09.2025	03/12/25	Lecture + Diagram + Discussion
12	2	Fuel Injection System	17.09.2025	03/12/25	Lecture + Diagram + Discussion
13	2	Auto Electrical System – Basics	22.09.2025	08/12/25	Lecture + Diagram + Discussion
14	2	Ignition System – Types	23.09.2025	08/12/25	Lecture + Diagram + Discussion
15	2	Battery, Charging & Starting System	24.09.2025	08/12/25	Lecture + Diagram + Discussion
16	2	Lighting & Wiring System	29.09.2025	08/12/25	Lecture + Diagram + Discussion
17	3	Braking System – Need & Classification	30.09.2025	-	Lecture + Diagram + Discussion
18	3	Drum Brake – Construction & Working	01.10.2025	-	Lecture + Diagram + Discussion

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19	3	Disc Brake – Construction & Working	06.10.2025	—	Lecture + Diagram + Discussion
20	3	ABS & Electronic Braking System	07.10.2025	—	Lecture + Diagram + Discussion
21	3	Clutch – Need & Types	08.10.2025	—	Lecture + Diagram + Discussion
22	3	Single & Multi Plate Clutch	13.10.2025	—	Lecture + Diagram + Discussion
23	3	Semi & Centrifugal Clutch	14.10.2025	—	Lecture + Diagram + Discussion
24	3	Suspension System – Types	15.10.2025	—	Lecture + Diagram + Discussion
25	3	Independent & Dependent Suspension	20.10.2025	—	Lecture + Diagram + Discussion
26	3	Shock Absorbers & Air Suspension	21.10.2025	—	Lecture + Diagram + Discussion
27	4	Transmission System – Introduction	22.10.2025	15/12/25	Lecture + Diagram + Discussion
28	4	Gear Box – Types & Working	27.10.2025	15/12/25	Lecture + Diagram + Discussion
29	4	Sliding Mesh & Constant Mesh Gear Box	28.10.2025	18/12/25	Lecture + Diagram + Discussion
30	4	Synchromesh & CVT	29.10.2025	18/12/25	Lecture + Diagram + Discussion
31	4	Automatic Transmission & Torque Converter	03.11.2025	16/12/25	Lecture + Diagram + Discussion
32	4	Propeller Shaft & Universal Joint	04.11.2025	16/12/25	Lecture + Diagram + Discussion
33	4	Differential – Construction & Working	05.11.2025	16/12/25	Lecture + Diagram + Discussion
34	4	Rear Axle & Front Axle	10.11.2025	16/12/25	Lecture + Diagram + Discussion
35	4	Final Drive & Axle Drives	11.11.2025	—	Lecture + Diagram + Discussion
36	4	Revision (Unit 4)	12.11.2025	—	Lecture + Diagram + Discussion

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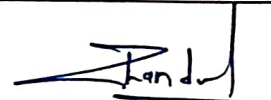
COURSE : AUTOMOBILE ENGINEERING

2037571(037)

SESSION STARTS FROM : 25.08.2025

Lecture No.	Unit No.	Topic to be Covered	Planned Date	Execution Date	Remarks
37	5	Steering System – Types	17.11.2025	17/11/25	Lecture + Diagram + Discussion
38	5	Steering Geometry	18.11.2025	17/11/25	Lecture + Diagram + Discussion
39	5	Power Steering System	19.11.2025	17/11/25	Lecture + Diagram + Discussion
40	5	Wheel Alignment & Balancing	24.11.2025	—	Lecture + Diagram + Discussion
41	5	Types of Tyres & Construction	25.11.2025	22/11/25	Lecture + Diagram + Discussion
42	5	Tyre Specifications & Selection	26.11.2025	—	Lecture + Diagram + Discussion
43	5	Tyre Maintenance & Economy	01.12.2025	22/11/25	Lecture + Diagram + Discussion
44	5	Revision (Unit 5)	02.12.2025	22/11/25	Lecture + Diagram + Discussion
45	6	Automobile Emissions – Sources	03.12.2025	23/11/25	Lecture + Diagram + Discussion
46	6	Exhaust Gas Analysis	08.12.2025	23/11/25	Lecture + Diagram + Discussion
47	6	Emission Control Techniques	09.12.2025	23/11/25	Lecture + Diagram + Discussion
48	6	Catalytic Converter & Muffler	10.12.2025	24/11/25	Lecture + Diagram + Discussion
49	6	Motor Vehicle Rules & Emission Norms	15.12.2025	24/11/25	Lecture + Diagram + Discussion
50	6	Final Revision & Model Paper Discussion	16.12.2025	24/11/25	Lecture + Diagram + Discussion


Principal
Govt. Polytechnic
Gariyaband


Chandresh Ku. Dewangan
Lecturer (mechanical)

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DEPARTMENT : MECHANICAL ENGINEERING

COURSE : AUTOMOBILE ENGINEERING (LAB)

COURSE CODE : 2037561(037)

SEMESTER : V

SESSION STARTS FROM : 25.08.2025

Practical No.	Experiment Title	Planned Date	Execution Date	Remarks
1	Identify vehicle layout and chassis components	28.08.2025	04/12/25	Practical / Demonstration / Observation
2	Assemble and dismantle internal combustion engine (Petrol)	29.08.2025	04/12/25	Practical / Demonstration / Observation
3	Assemble and dismantle internal combustion engine (Diesel)	04.09.2025	-	Practical / Demonstration / Observation
4	Study of carburetor and fuel supply system	05.09.2025	05/12/25	Practical / Demonstration / Observation
5	Study of fuel injection system	11.09.2025	-	Practical / Demonstration / Observation
6	Battery testing and maintenance	12.09.2025	-	Practical / Demonstration / Observation
7	Ignition system testing	18.09.2025	-	Practical / Demonstration / Observation
8	Lighting and wiring circuit testing	19.09.2025	-	Practical / Demonstration / Observation
9	Dismantle and assemble drum brake	25.09.2025	05/12/25	Practical / Demonstration / Observation
10	Dismantle and assemble disc brake	26.09.2025	05/12/25	Practical / Demonstration / Observation
11	Study of ABS system	02.10.2025	-	Practical / Demonstration / Observation
12	Dismantle and assemble clutch assembly	03.10.2025	-	Practical / Demonstration / Observation
13	Study of suspension system components	09.10.2025	05/12/25	Practical / Demonstration / Observation

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Practical No.	Experiment Title	Planned Date	Execution Date	Remarks
14	Study of shock absorber	10.10.2025	11/12/25	Practical / Demonstration / Observation
15	Gearbox dismantling and assembly	16.10.2025	11/12/25	Practical / Demonstration / Observation
16	Study of differential system	17.10.2025	11/12/25	Practical / Demonstration / Observation
17	Study of propeller shaft and universal joint	23.10.2025	-	Practical / Demonstration / Observation
18	Study of steering system	24.10.2025	-	Practical / Demonstration / Observation
19	Wheel alignment and balancing	30.10.2025	12/12/25	Practical / Demonstration / Observation
20	Tyre and wheel identification	31.10.2025	-	Practical / Demonstration / Observation
21	Power steering system study	06.11.2025	-	Practical / Demonstration / Observation
22	Rear axle study	07.11.2025	-	Practical / Demonstration / Observation
23	Front axle study	13.11.2025	12/12/25	Practical / Demonstration / Observation
24	Exhaust gas analyzer experiment	14.11.2025	-	Practical / Demonstration / Observation
25	Emission testing and analysis	20.11.2025	-	Practical / Demonstration / Observation
26	Cooling system study	21.11.2025	-	Practical / Demonstration / Observation

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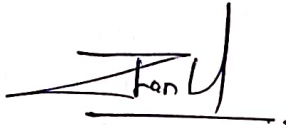
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Practical No.	Experiment Title	Planned Date	Execution Date	Remarks
27	Lubrication system study	27.11.2025	12/12/25	Practical / Demonstration / Observation
28	Starting system study	28.11.2025	-	Practical / Demonstration / Observation
29	Charging system study	04.12.2025	11/12/25	Practical / Demonstration / Observation
30	Final Practical Viva & Record Submission	05.12.2025	12/12/25	Practical / Demonstration / Observation


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