

GANESHINSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC BBSR.

DEPARTMENT OF AUTOMOBILE ENGINEERING

NAME-MANAS KUMAR PARICHHA

LESSON PLAN CUM PROGRESS REPORT

SUBJECT: TH2. AUTOMOTIVE SYSTEM & HEAVY			SEMESTER: 6TH				BRANCH: AUTOMOBILE ENGINEERING		
LECTURE NO.	CO	BTL	TOPIC TO BE COVERED	BOOK NAME. /CHAPT. NO./PAGE NO.	WEB REFERENCE IF ANY	TEACHING LEARNING METHOD	PLAN DATE	ACTION DATE	REVIEW BY HOD
1	1	2	FRONT AXLE Introduction & study of front axle assemblies	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-33-1	https://youtu.be/wgnANmNkEYs	1-Introduction to AE-5 min 2-Prerequisites for AE-PPT/Smart board-10 min 3-Syllabus & CO discussion-10 min 4-Lecturer-35 min	05-01-2026		
2	1	2	Front axle function, construction	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-33-27	https://youtu.be/yYxjGp8uAwY	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	06-01-2026		
3	1	2	Types of stub axle Front wheel assembly	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-33-27	https://youtu.be/5LtYiYcORnI	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	07-01-2026		
4	1	2	STEERING & STEERING GEOMETRY Introduction of steering system, function of steering	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-33-2	https://youtu.be/5LtYiYcORnI	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	08-01-2026		
5	1	2	STEERING & STEERING GEOMETRY Introduction of steering system, function of steering	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-33-2	https://youtu.be/bdH-W9LbYjs	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	19-01-2026		

6	1	2	Principle of correct steering & Components of steering system	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-33-22	https://youtu.be/bdH-W9LbYjs	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	10-01-2026		
7	1	2	Types of steering gear	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-33-2	https://youtu.be/u_y1S8C0Hmc	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 2-Lecturer-30 min 3-Doubts & Assignment-10 min	12-01-2026		
8	1	2	Steering geometry i.e. camber, caster, king-pin, Inclination, understeer, oversteer,	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-33-22	https://youtu.be/u_y1S8C0Hmc	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 3-Lecturer-4-Doubts & Assignment-10 min	13-01-2026		
9	61	2	Steering geometry i.e. camber, caster, king-pin, Inclination, understeer, oversteer,	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-33-22	https://youtu.be/AECKqCyfMQA	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	15-01-2026		
10	1	2	Toe-in Toe-out, wheel alignment & effects of incorrect wheel alignment, steering turning	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-30-2	https://youtu.be/AECKqCyfMQA	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	16-01-2026		
11	1	2	Toe-in Toe-out, wheel alignment & effects of incorrect wheel alignment, steering turning	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-31-1	https://youtu.be/nC6fsNXdcMQ	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	17-01-2026		
12	1	2	SUSPENSION SYSTEM Introduction & function & requirement of suspension system	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-31-2	https://youtu.be/nC6fsNXdcMQ	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 3-Lecturer-30 4-Doubts & Assignment-10 min	19-01-2026		
13	2	2	SUSPENSION SYSTEM Introduction & function & requirement of suspension	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-36-1	https://youtu.be/665YfCieiH8	1-Previous class topic Review-5 min 2-Lecturer-45 3-Doubts & Assignment-10 min	20-01-2026		
14	2	2	Types of suspension spring like leaf spring, coil spring, rubber torsion unit, Torsion bar	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-36-2	https://youtu.be/MoRrFK6Zzq8	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	21-01-2026		

15	2	2	Types of suspension spring like leaf spring, coil spring, rubber torsion unit, Torsion bar.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-36-4	https://youtu.be/JbESrJ9YPQ0	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 3-Lecturer- 4-Doubts & Assignment-10 min	22-01-2026		
16	2	2	Types of suspension system such as independent suspension system, rigid axle Suspension system, its advantages and disadvantages.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-36-17	https://youtu.be/SodkOh7RAME	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	24-01-2026		
17	2	2	Types of suspension system such as independent suspension system, rigid axle Suspension system, its advantages and disadvantages.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-36-22	https://youtu.be/gk6JJStmb9c	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 2-Lecturer-30 min 3-Doubts & Assignment-10 min	27-01-2026		
18	2	2	. BRAKE SYSTEM Introduction, Principle of operation and requirements of	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-25-2	https://youtu.be/s_gI6ovMqIQ	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	28-01-2026		
19	2	2	. BRAKE SYSTEM Introduction, Principle of operation and requirements of brakes.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-25-3	https://youtu.be/J24Z2Pn94cY	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 3-Lecturer-30 min 4-Doubts & Assignment-10 min	29-01-2026		
20	2	2	Types of brakes such as drum brakes and its leading & trailing shoes, disc brakes. Brake fade.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-25-10	https://youtu.be/hAPqDPZ3dh8	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 3-Lecturer- 4-Doubts & Assignment-10 min	30-01-2026		
21	2	2	Types of brakes such as drum brakes and its leading & trailing shoes, disc brakes. Brake fade.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-25-10	https://youtu.be/XS_iutJqMw0	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	31-01-2026		
22	5	2	Hydraulic brakes and its components like master cylinder, tandem master cylinder, wheel cylinder, brake fluid and brake fluid grades. Advantages and disadvantages of	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-34-2	https://youtu.be/MP_rUWfoga	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	02-02-2026		

23	5	2	Hydraulic brakes and its components like master cylinder, tandem master cylinder, wheel cylinder, brake fluid and brake fluid grades. Advantages and disadvantages of	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-34-3	https://youtu.be/MP_rUWfopgA	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	03-03-2026		
24	5	1	Tyre dimension Classification of tyre	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-34-3	https://www.youtube.com/shorts/Qy3bW_eKNDrU?feature=share	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	04-02-2026		
25			advantages and disadvantages of radial ply tyres over cross ply tyre.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-34-3	https://www.youtube.com/shorts/Qy3bW_eKNDrU?feature=share	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	05-02-2026		
26	2	1	Power brake types, working and construction of air brake & handbrake.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-34-17	https://youtu.be/uxkmDvdCTy8	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	06-02-2026		
27	2	2	Power brake types, working and construction of air brake & handbrake.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-34-17	https://youtu.be/uxkmDvdCTy8	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	07-02-2026		
28	3	2	Adjustment and bleeding of brake	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no-19-1	https://youtu.be/_4TQ0oQxe_g	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	08-02-2026		
29	3	2	Adjustment and bleeding of brake	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-19-1	https://youtu.be/_4TQ0oQxe_g	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	09-02-2026		
30	3	2	Common brake problems.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-19-2	https://youtu.be/PIJjXgfJD5w	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	10-02-2026		
31	3	2	Common brake problems.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.- 19-2	https://youtu.be/PIJjXgfJD5w	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 3-Lecturer-4-Doubts & Assignment-10 min	11-02-2026		
32	3	2	Anti-lock braking system.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-21-1	https://youtu.be/OiUQFjsM7Xs	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	12-02-2026		

33	3	2	Anti-lock braking system.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-21-2	https://youtu.be/65xl7454_b8	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	13-02-2026		
34	3	2	WHEEL & TYRES Introduction	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-21-9	https://youtu.be/wrLGxNwpbt8	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	14-02-2026		
35	3	2	WHEEL & TYRES Introduction	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-21-9	https://youtu.be/wrLGxNwpbt8	1-Previous class topic Review-5 min 2-Lecturer-3-Doubts & Assignment-10 min	16-02-2026		
36	3	2	Basic construction of a tyre	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-14-1	https://youtu.be/83csy0wXwnw	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 3-Lecturer-4-Doubts & Assignment-10 min	17-02-2026		
37	3	2	Basic construction of a tyre	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-14-1	https://youtu.be/83csy0wXwnw	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	18-02-2026		
38	3	2	5.2 Describe Carburetion process for Petrol Engine	R.B. GUPTA /AUTOMOBILE ENGINEERING. /14-3 Page no.-	https://youtu.be/uHlTZqcT7EU	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	19-02-2026		
39	3	2	Tyre dimension	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-15=2	https://youtu.be/09O7YkPJyKg	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 2-Lecturer-30 min 3-Doubts & Assignment-10 min	20-02-2026		
40	3	2	Classification of tyre, advantages and disadvantages of radial ply tyres over cross ply tyre. Tyre size designation	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-15-2	https://youtu.be/09O7YkPJyKg	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	21-02-2026		
41	3	2	Classification of tyre, advantages and disadvantages of radial ply tyres over cross ply	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-15-2	https://youtu.be/09O7YkPJyKg	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	23-02-2026		
42	3	2	Different types of tyre damages	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-15-11	https://youtu.be/v2Y2IbMD9pc	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	24-02-2026		

43	3	2	Different types of tyre damages	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-15-11	https://youtu.be/v2Y2IbMD9pc	1-Previous class topic Review-5 min 2-Lecturer- 3-Doubts & Assignment-10 min	25-02-2026		
44	3	2	Wheel, and its type	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-15-7	https://youtu.be/79E9NNFXDCo	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 2-Lecturer-30 min 3-Doubts & Assignment-10 min	26-02-2026		
45	3	2	Wheel, and its type	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-15-20	https://youtu.be/v9cLmnkacNo	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	27-02-2026		
46	3	2	Wheel dimensions	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-15-20	https://youtu.be/v9cLmnkacNo	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	02-03-2026		
47	4	2	Wheel dimensions	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/3emzFv7EBOY?list=PLSJZETVyEssniyF9TXc4uhcRaxOyKlmb9	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 2-Lecturer-30 min 3-Doubts & Assignment-10 min	05-03-2026		
48	4	2	Wheel designation	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/3emzFv7EBOY?list=PLSJZETVyEssniyF9TXc4uhcRaxOyKlmb9	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	06-03-2026		
49	4	2	CHASSIS & HEAVY EQUIPMENTS	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/XkuVUnscajw	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	07-03-2026		
50	4	2	CHASSIS & HEAVY EQUIPMENTS	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/XkuVUnscajw	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	09-03-2026		
51	4	2	Introduction and lay out of chassis showing its main components	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/XkuVUnscajw	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	10-03-2026		
52	4		Introduction and lay out of chassis showing its main components	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/XkuVUnscajw	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 2-Lecturer-30 min 3-Doubts & Assignment-10 min	11-03-2026		
53	4	2	Types of chassis, frame and important chassis layouts	R.B. GUPTA / AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/Aa647ghOjGw	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	12-03-2026		

54	4	2	Types of chassis, frame and important chassis layouts	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/Aa647ghOjGw	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	13-03-2026		
55	5	2	Tractor and its construction, Classification, construction and description of dump truck	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/47U1g4ChVkM	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	14-03-2026		
56	5	2	Tractor and its construction, Classification, construction and description of dump truck	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/47U1g4ChVkM	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	16-03-2026		
57	5	2	grader, road roller,	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/k1jHnUrNuLY	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	17-03-2026		
58	5	2	grader, road roller,	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/k1jHnUrNuLY	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	18-03-2026		
59	5	2	dozer, loader	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/KrQdE4jUPcw	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	19-03-2026		
60	5	2	cranes, scraper.	R.B. GUPTA /AUTOMOBILE ENGINEERING. / Page no.-	https://youtu.be/KrQdE4jUPcw	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment-10 min	20-03-2026		

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