

GANESH INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC

DEPARTMENT OF AUTOMOBILE ENGINEERING

Er. Achyutananda Rout

LESSONPLAN CUM PROGRESS REPORT – 2025-2026

SUBJECT:VEHICLE MAINTENANCE AND MOTOR VEHICLE ACT				SEMESTER: 6TH			BRANCH:AUTOMOBILE ENGINEERING		
LECTURE NO.	CO	BTL	TOPIC TOBE COVERED	BOOKNAME./ CHAPT. NO./ PAGE NO.	WEB REFERENCE IF ANY	TEACHING LEARNING METHOD	PLAN DATE	ACTION DATE	REVIEW BY HOD
1	1	2	1.Introduction	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 1 Page -1	https://youtu.be/C2AD3wFAuy0	1- Introduction to RE-5 min 2- Prerequisites for RE-	02-01-2026		
2	1	3	Need of maintenance systems	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 1 Page -4	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min	05-01-2026		
3	1	2	Types of maintenance	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 1 Page -9	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min	07-01-2026		
4	1	2	Breakdown maintenance	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 1 Page 12 Chapter - 1	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min	08-01-2026		
5	1	2	Preventive maintenance	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 1 Page -13	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-	10-01-2026		
6	1	1	Predictive maintenance	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 1 Page-15	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1- Assignment - 10 min 2- Doubts - 20 min	12-01-2026		
7	1	3	Total productive maintenance	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -18	https://youtu.be/C2AD3wFAuy0	1- Introduction to Solar Energy -5 min	15-01-2026		
8	2	2	2. SERVICE STATION	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -20	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2. Lecture-	16-01-2026		
9	2	2	Service station and types	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -22	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2. Lecture-	19-01-2026		

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10	2	2	Private service stations	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -24	https://www.youtube.com/sports/U07ydaqpv8?feature=share	1-Previous class topic Review-5 min 2-Lecture-	20-01-2026		
11	2	3	Company's authorized service station	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -27	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min	21-01-2026		
12	2	1	Company's dealer service stations	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -29	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-	24-01-2026		
13	2	3	Criteria for service station	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -32	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	27-01-2026		
14	2	3	Workshop layout	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -35	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min	28-01-2026		
15	2	3	Important elements in workshop layout	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -36	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min	29-01-2026		
16	2	2	Workshop documents and records	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -37	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min	31-01-2026		
17	2	2	Job card and its importance	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -42	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-45 min 3. Doubts 10	02-02-2026		
18	3	3	3.TOOLS AND EQUIPMENTS Introduction	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -45	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-45 min 3. Doubts 10	04-02-2026		
19	3	3	List of tools List of equipments	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -46	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	05-02-2026		

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20	3	3	Spanners or wrenches Double ended open jaw spanner (fix spanner)	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 2 Page -47	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-	06-02-2026		
21	3	2	Double ended ring spanner	AUTOMOBILE ENGINEERING Chapter - 2	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1- Assignment - 10 min 2- Doubts - 20 min	07-02-2026		
22	3	2	Combination spanner Socket or box spanner	AUTOMOBILE ENGINEERING Chapter - 3 Page - 51	https://youtu.be/C2AD3wFAuy0	1- Introduction to Wind Energy -5 min	09-02-2026		
23	3	3	Screwdriver Types of screw and screw drivers	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -53	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-45 min	10-02-2026		
24	3	2	Torque wrenches Pliers Allen keys	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -55	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-	12-02-2026		
25	3	3	Hammers Chisels Files Hacksaws	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -58	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	13-02-2026		
26	3	2	Wire brush and scraper Taps and dies Drill bits Reamers	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -60	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-	16-02-2026		
27	3	3	Wire brush and scraper Taps and dies Drill bits Reamers Measuring tools Valve spring	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -62	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	17-02-2026		
28	3	3	Piston ring compressor Oil filter wrenches Puller Coil spring compressor set	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -63	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-45 min	18-02-2026		
29	3	3	Tyre levers Tool box C-clamp Pneumatic tools Drilling machine	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -64	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-45 min	20-02-2026		

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30	3	1	Grinder Jack – (mechanically operated jack and hydraulic jack)	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -66	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min	23-02-2026		
31	3	1	Wheel aligner Brake bleeding equipments High pressure compressor High	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -68	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min	25-02-2026		
32	3	1	Engine analyser Hydraulic press Spark plug tester and cleaner machine	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -70	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min	26-02-2026		
33	4	1	4. SERVICE, REPAIR AND OVERHAUL	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 3 Page -72	https://youtu.be/xwnuvA18Szo?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3	1-Previous class topic Review-5 min	27-02-2026		
34	4	1	Troubles, Causes & remedies in engine	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter – 3 Page-75	https://youtu.be/Jxet17SC1ag?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3	1- Assignment - 10 min 2- Doubts - 20 min 3- Smart Class - 30	28-02-2026		
35	4	1	fuel system	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -77	https://youtu.be/p9S61gIdJag?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3	1- Introduction to Biomass Power -5 min	03-03-2026		
36	4	1	cooling system	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -78	https://youtu.be/C2AD3wFAhttps://youtu.be/AxMwJewcN4w?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3uy0	1-Previous class topic Review-5 min	05-03-2026		
37	4	1	lubrication system	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -80	https://youtube.com/playlist?list=PLY8pCdWSIXrQU1https://youtu.be/mPqLmtckJM?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	06-03-2026		
38	4	1	MPFI Engine	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -82	https://youtu.be/hFpv0AoOCM0?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3	1-Previous class topic Review-5 min 2-Lecture-45 min	07-03-2026		
39	4	1	Service of engine	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -84	https://youtube.com/playlist?list=PLY8pCdWSIXrQU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-45 min	09-03-2026		

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40	4	2	repair of engine	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -86	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-	10-03-2026		
41	4	2	overhaul of engine	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -88	https://youtube.com/playlist?list=PLY8pCdW5IXrOU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdg	1-Previous class topic Review-5 min 2-Lecture-	12-03-2026		
42	4	2	Service,	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -90	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-	13-03-2026		
43	4	2	repair	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -91	https://youtube.com/playlist?list=PLY8pCdW5IXrOU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdg	1-Previous class topic Review-5 min 2-Lecture-	14-03-2026		
44	4	2	and overhaul of chassis and body	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -93	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-15 min	16-03-2026		
45	5	1	Introduction Short explanation on different sections like 3,4,5,19,39,49,50,51,128,129,130,133	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -95	https://youtube.com/playlist?list=PLY8pCdWSIXrOU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdg	1-Previous class topic Review-5 min 2-Lecture-	17-03-2026		
46	5	1	Driving license Necessity for driving license.	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -97	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-	18-03-2026		
47	5	1	Restrictions on granting of learner's licenses for certain vehicles. Grant of learner's licenses	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -99	https://youtube.com/playlist?list=PLY8pCdWSIXrOU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdg	1-Previous class topic Review-5 min 2-Lecture-	19-03-2026		
48	5	1	Grant of Permanent driving licenses.	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -101	https://youtu.be/C2AD3wFAuy0	1-Previous class topic Review-5 min 2-Lecture-	20-03-2026		
49	5	1	Documents required for driving licenses.	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -105	https://youtube.com/playlist?list=PLY8pCdWSIXrOU16hnWuk3vmTcre8mwcG3&si=OK-NobHKridnrtdg	1-Previous class topic Review-5 min 2-Lecture-15 min	23-03-2026		

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50	5	1	Necessity of registration of vehicle.	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -107	https://youtu.be/C2AD3wE1aPc	1-Previous class topic Review-5 min 2-Lecture-	24-03-2026		
51	5	1	Registration –where to be made.	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -109	https://youtu.be/C2AD3wE1aPc https://youtube.com/playlist?list=PLY8pCdWSIXrOU16hnWuk3ymTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	25-03-2026		
52	5	2	Procedure for registration.	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -111	https://youtu.be/C2AD3wE1aPc https://youtube.com/playlist?list=PLY8pCdWSIXrOU16hnWuk3ymTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	27-03-2026		
53	5	2	Condition for refusal of registration	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -93	https://youtube.com/playlist?list=PLY8pCdWSIXrOU16hnWuk3ymTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	28-03-2026		
54	5	2	Temporary registration.	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 4 Page -115	https://youtube.com/playlist?list=PLY8pCdWSIXrOU16hnWuk3ymTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-15 min	30-03-2026		
55		2	Permanent registration.	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -117	https://youtube.com/playlist?list=PLY8pCdWSIXrOU16hnWuk3ymTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	02-04-2026		
55	5	3	Renewal of registration certificate.	AUTOMOBILE ENGINEERING BY KRIPAL SINGH Chapter - 5 Page -120	https://youtube.com/playlist?list=PLY8pCdWSIXrOU16hnWuk3ymTcre8mwcG3&si=OK-NobHKridnrtdq	1-Previous class topic Review-5 min 2-Lecture-	04-04-2026		

Principal

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HOD, Automobile Engineering