

**Department of Automobile Engg.
Govt. Polytechnic Kullu
Distt. – Kullu (H.P.) - 175101**

LESSON PLAN

Program Name	Automobile Engineering
Subject Name	Elements of Design & Mechanics of Vehicle
Subject Code	AEPC 301
Semester	5th
Subject Teacher Name	Rishav

Evaluation Scheme		Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
Sr. No	Subject Name	Th	Pr	Internal Assessment			External Assessment		
				Th	Pr	Total	Th	Pr	Total
1.	Elements of Design & Mechanics of Vehicle	6	-	40	-	40	60	-	60
Reference Books		(1) Machine Design by R.S.Khurmi. (2) Theory of Machines by R.S.Khurmi (3) Design of Machine Elements by V.B.Bhandari. (4) Automobile Engineering Vol-I, II, Dr. Kirpal Singh,							

Course Outcomes (COs)

CO – 1	Understand the principles of good economic design.
CO – 2	Familiarization with Indian Standard of Fits, limits and Tolerances.
CO – 3	Analyze the effect of various forces acting on a component.
CO – 4	Understand Kinematics and Dynamics of different machines and mechanisms.
CO – 5	Calculate sizing of elements of transmission systems like couplings, belts, chains, gears, brakes, clutches, shafts, bearing, in detail.

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-1 Introduction	Design considerations, design procedure	06-08-26 07-08-26 10-08-26		
	Basic requirements, and classifications of design	11-08-26 12-08-26 13-08-26		
	Principles of good economic design. Standardization	14-08-26 17-08-26 18-08-26		
	Interchange-ability of Automobile parts with reference to IS-specifications	19-08-26 20-08-26		
	Limits, fits and tolerances.	21-08-26 22-08-26		

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UNIT-II Design of keys, couplings and Engine Parts	Concept of Sunk Keys, Rectangular Keys, Square, Parallel, Crosshead, Woodruff Key	24-08-26 25-08-26 26-08-26 27-08-26		
	Design of rectangular key, Coupling: Flange coupling, Muff coupling, Clamp coupling	28-08-26 29-08-26 31-08-26 01-09-26 02-09-26 03-09-26 05-09-26		
	Class Test-I	07-09-26		
	Engine Parts: Cylinder liner and cylinder head, Piston	08-09-26 09-09-26 10-09-26 11-09-26 14-09-26 15-09-26		
	Connecting Rod, Clutch- Single Plate and Multi plate Clutch.	16-09-26 17-09-26 18-09-26 19-09-26		
UNIT-III Simple Mechanism	Brakes- Internal Expanding shoe brake.	21-09-26 22-09-26 23-09-26 24-09-26 25-09-26 26-09-26		
	Definition of link, kinematic pair, kinematic chain.	28-09-26 29-09-26		
	Mechanism, inversions and machines.	30-09-26 24-09-26		
	Simple examples of mechanism with: Lower pairs, Four bar chain.	01-10-26 03-10-26 05-10-26		
	Simple examples of mechanism with: Slider crank chain, Double slider crank chain, Higher pairs.	06-10-26 07-10-26 08-10-26 09-10-26		
	Class Test-II	12-10-26		
		13-10-26		
UNIT-IV Motion and Turning Moment	Displacement, velocity and acceleration of piston Angular velocity and angular acceleration of connecting rod	14-10-26 15-10-26 16-10-26 17-10-26		
	Calculations of piston effort and crank effort at different angles	19-10-26 21-10-26 22-10-26		

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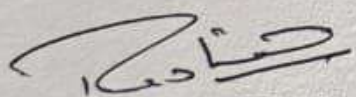
	Fly wheel: types, weight and moment of inertia, Fluctuation of energy for fly wheel	23-10-26		
		24-10-26		
		27-10-26		
		28-10-26		
UNIT-V	Turning moment diagrams with reference to internal combustion engines.	29-10-26		
		30-10-26		
		31-10-26		
		02-11-26		
Power Transmission	House test			
	Flat belt, V-belt and chain drives, Ratio of tension of two sides of the belt with and without centrifugal tension	12-11-26		
		13-11-26		
		16-11-26		
		17-11-26		
	Velocity ratios transmitted by Belts.	18-11-26		
		19-11-26		
		20-11-26		
		21-11-26		
	Simple, compound and Epicyclic gear box.	23-11-26		
		25-11-26		
		26-11-26		
		27-11-26		
		28-11-26		

Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-1, Unit-2	02-09-26		
A-2	Unit-3, Unit-4, Unit-5	27-10-26		

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1, Unit-2	As per HPTSB Academic Schedule		
Class Test -2	Unit-2, Unit-3			
House Test	Unit-1 to Unit-4			


(Signature of Teacher)


(Signature of HOD)

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Govt. Polytechnic Kullu

LESSON PLAN

Program Name	Automobile Engineering
Subject Name	Auto Electrical & Electronic Equipment
Subject Code	AEPC 303
Semester	5th
Subject Teacher Name	Vivek Singh

Evaluation Scheme		Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
Sr. No	Subject Name	Th	Pr	Internal Assessment			External Assessment		
				Th	Pr	Total	Th	Pr	Total
1.	Auto Electrical & Electronic Equipment	4	-	40	-	40	60	-	60
Reference Books		1. Automobile Engineering by Kirpal Singh. 2. Automotive Electrical Equipment by P.L. Kohli. 3. Automotive Electrical Equipment by William H. Crouse. 4. Automobile Engineering by R.B. Gupta. 5. Automotive Electrical and Electronics by AK Babu.							

Course Outcomes (COs)

CO - 1	Understand the basic auto electrical systems., layout of wiring and connections of electrical systems and the working of different electrical components of automobiles.
CO - 2	Explain the construction, characteristics and maintenance of starting and ignition system and diagnose the ignition system fault of any vehicle
CO - 3	Understand purpose, construction & working of components of lighting system and accessories.
CO - 4	Describe the principles and architecture of electronics systems and its components present in an automobile related to instrumentation, control, security and warning systems.
CO - 5	Enumerate the principles, application, construction and specification of different sensors and actuators usable in typical automobile by suitable testing.

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-1 Introduction & Batteries	Various Electrical components/systems in Automobile. Their functions and demands, earths return system, types of earthing, 6V, 12V & 24V system.	10-08-2026 11-08-2026 13-08-2026		
	Lead Acid Batteries: Construction, working, elements, types, materials used, electrolyte and its strength, effect of added plate area and temperature	14-08-2026 17-08-2026 18-08-2026		
	rating, capacity, efficiency, temperature characteristics, terminal voltages, charging and discharging,	20-08-2026 21-08-2026		

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	Battery Testing: Electrolyte testing by hydrometer, voltage test, high discharge and cadmium test (voltage), Battery Charging: Constant potential and constant current, initial charging, normal charging, trickle charging, intermittent charging, boost charging, Battery Defects: Sulphation, plates decay, working, erosion, cracking, sedimentation, separator defects, short circuits, overcharging.	24-08-2026 25-08-2026		
UNIT-II	Circuits, function and various components of alternator, types	27-08-2026 28-08-2026 31-08-2026 01-09-2026 03-09-2026		
Charging System & Starting system	Construction, working, advantages and disadvantages of alternators, drives, cut out relay.	07-09-2026 08-09-2026		
	Class Test-I	10-09-2026 11-09-2026 14-09-2026		
	Starting System: Function of various components, torque terms, principle and constructional	15-09-2026		
	Details of starter motor, switches, types, Starter to engine drive and their types, Starter alternators.	17-09-2026 18-09-2026		
		21-09-2026 22-09-2026		
UNIT-III	Constructional details of coil, distributor, condenser, meaning of cam angle,	24-09-2026 25-09-2026		
Ignition System	Ignition timing, ignition advancing mechanisms, centrifugal and vacuum type,	28-09-2026 29-09-2026		
	Transistorized ignition system, construction and working details of magneto ignition system.	01-10-2026 05-10-2026		
	Spark Plugs: Constructional details of spark plugs, classification as per reach, heat range,	06-10-2026 08-10-2026		
	Diameter, and effect of leaded fuels, care and maintenance of spark plug.	09-10-2026 12-10-2026		
	Class Test-II	13-10-2026		
UNIT-IV	Various lighting circuits, head lamp, type and constructional details, sealed beam,	15-10-2026 16-10-2026 19-10-2026		
Lighting System	Double filaments, fog light, side light, brake light, instrument light, indicator lights, reversing light.	22-10-2026 23-10-2026		
	Wiring: HT and LT, their specifications, cable colour codes, wiring Harness,	27-10-2026		

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UNIT-V Electrical Accessories	Wiring diagrams of cars and two wheeler, Fuses, faults and rectification.	29-10-2026 30-10-2026		
	House test	03-11-2026		
	Fuel gauges:- bimetallic and balancing coil type, Air pressure gauges, temperature gauges, warning light, wind screen wipers, horns, horn relay, electric fuel pump, Faults and rectification.	12-11-2026 13-11-2026 16-11-2026		
	Miscellaneous Electrical Equipment: Impulse Speedometer, tachometer, heaters, defrosters and Electric door locks, window actuation.	17-11-2026 19-11-2026 20-11-2026		
	Computer Controlled Sensors: Principle and application of sensor in engine management: Air flow sensor, manifold pressure sensor, speed sensor, throttle position sensor, oxygen sensor, temperature sensor.	23-11-2026 26-11-2026 27-11-2026		

Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-1, Unit-2	11-09-2026		
A-2	Unit-3, Unit-4, Unit-5	30-10-2026		

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1, Unit-2	As per HPTSB Academic Schedule		
Class Test -2	Unit-2, Unit-3			
House Test	Unit-1 to Unit-4			

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Department of Automobile Engineering
Govt. Polytechnic Kullu Distt. – Kullu (H.P.)
LESSON PLAN

Program Name	Automobile Engineering
Subject Name	Auto Electrical & Electronic Equipment Laboratory
Subject Code	AEPC 305
Semester	5th
Subject Teacher Name	Maneet Guleria

N-22

Subject Teacher Name		N-22							
Evaluation Scheme		Study scheme		Marks in Evaluation Scheme					
Sr. No	Subject Name	(Hrs/Week)		Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
		-	2	-	40	40	-	60	60

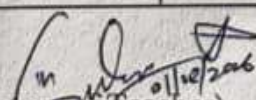
1. Driving Practice-II

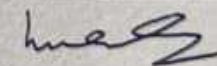
Course Outcomes (COs)

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|--------|--|
| CO – 1 | To understand the testing of batteries. |
| CO – 2 | To elaborate cleaning and setting of spark plug gap. |
| CO – 3 | To understand colour codes in wiring system of automobiles |
| CO – 4 | To demonstrate MPFI and CRDI systems. |
| CO – 5 | To enumerate fault tracing of electronic ignition system. |

Teaching Plan

Practicals	Name of Practicals	Proposed	Actual Date	Remarks
Practical 1	Testing of Battery with hydrometer and high rate discharge tester, charging of Batteries.	22-08-2026		G1
		13-08-2026		G2
Practical 2	• Testing and measurement of ignition timing and dwell angle with timing light and cam angle tester.	29-08-2026		G1
		20-08-2026		G2
Practical 3	• Testing, cleaning and setting of spark plug on spark plug cleaning and testing machine.	05-09-2026		G1
		27-08-2026		G2
Practical 4	• Testing of alternator rotor and stator winding for short circuit, ground and broken circuit using alternator test	19-09-2026		G1
		03-09-2026		G2
Practical 5	• Testing and setting of horn and relay.	19-09-2026		G1
		10-09-2026		G2
Practical 6	• Testing and fault tracing of field winding, armature and magnetic switch for short circuit, grounding of a starter	26-09-2026		G1
		17-09-2026		G2
Practical 7	• Identification of colour codes for continuity test in a wiring harness.	03-10-2026		G1
		24-09-2026		G2
Practical 8	• Study and sketching of complete wiring circuit of an Indian vehicle.	17-10-2026		G1
		01-10-2026		G2
Practical 9	• Fault tracing and diagnosis of electronic ignition system through engine car scanner.	24-10-2026		G1
		08-10-2026		G2
Practical 10	• Study and demonstration of MPFI and CRDI system.	31-10-2026		G1
		15-10-2026		G2
Practical 11	• Layout of temperature sensor circuit.	21-11-2026		G1
		22-10-2026		G2
Practical 12	• Study and layout circuit of D.C. Shunt motor and stepper motor	21-11-2026		G1
		29-10-2026		G2
Practical 13	• PLC basic circuits and control.	28-11-2026		G1
		19-11-2026		G2


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Lesson Plan

Branch : Automobile Engineering
Subject : Mechatronics & Microprocessors
Teacher : Pankaj Kumar
Subject Code: AEPE 301-III

Semester: 5th
Session: Aug. - Nov. -2026
Scheme: N-2022

Evaluation Scheme

Sr. No	Subject Name	Study scheme (Hrs/Week)		Credit	Marks in Evaluation Scheme			
					Internal Assessment		External Assessment	
		Th	Pr		Th	Pr	Th	Pr
1.	Mechatronics & Microprocessor	3	-	3	40	-	60	-
Reference Books		Mechatronics by HMT, Tata McGraw Hill, New Delhi						
		Mechatronics: Electronic Control System in Mechanical Engineering by W. Bolton; Pearson Education, Singapore						
		Mechatronics-Principles, Concepts and Applications by Nitaigour Premch and Mahalik Tata McGraw-Hill Pub.						
		Automotive Electrical and Electronics by AK Babu						

Course Outcomes (COs)

CO - 1	To understand basic systems of mechatronics.
CO - 2	To elaborate sensors and transducers.
CO - 3	To understand data presentation systems .
CO - 4	To discuss mechanical and electrical actuation systems.
CO - 5	To enumerate PLC (Programmable Logic Computers).

Teaching Plan

Chapter	Detail of Contents	Proposed Date	Actual Date	Remarks
I. Introduction	1.1 Introduction to Mechatronics 1.2 Mechatronic system 1.3 Measurement systems 1.4 Control system-open Loop, Close loop and sequential 1.5 Microprocessor based controllers 1.6 The Mechatronics approach	10/08/2026 11/08/2026 12/08/2026 17/08/2026 18/08/2026		
II. Sensors and Transducers	2.1 Sensors and transducers 2.2 Performance terminology 2.3 Displacement, position and motion sensors 2.4 Electromechanical sensors and transducers 2.5 Force sensors 2.6 Liquid flow sensors 2.7 Temperature sensors 2.8 Light sensors 2.9 Selection of sensors 2.10 Simple problems	19/08/2026 24/08/2026 25/08/2026 26/08/2026 01/09/2026		
III. Data Presentation Systems	3.1 Displays 3.2 Data presentation elements 3.3 Magnetic recording 3.4 Data acquisition systems 3.5 Measurement systems	02/09/2026 07/09/2026 08/09/2026 09/09/2026		

	3.6 Testing and calibration 3.7 Simple problems	15/09/2026		
Pneumatic and Hydraulic Systems	4.1 Actuation systems 4.2 Pneumatic and hydraulic systems 4.3 Directional control valves 4.4 Pressure control valves 4.5 Cylinders 4.6 Process control valves 4.7 Rotary actuators	16/09/2026 21/09/2026 22/09/2026 23/09/2026 28/09/2026		
IV. Mechanical Actuation Systems	5.1 Mechanical systems 5.2 Cams 5.3 Gear trains 5.4 Ratchet and pawl 5.5 Belt and chain drives	29/09/2026 30/09/2026 05/10/2026 06/10/2026 07/10/2026		
Electrical Actuation System	6.1 Electrical systems 6.2 Mechanical switches 6.3 Solid-state switches 6.4 Solenoids 6.5 D.C. motors 6.6 A.C. motors 6.7 Stepper motors	13/10/2026 14/10/2026 19/10/2026 21/10/2026 27/10/2026 28/10/2026		
V. Microprocessors & PLC	7.1 Microcomputer structure 7.2 Microcontrollers 7.3 Applications 7.4 Programmable logic controller – applications 7.5 Basic structure, input/output processing	11/11/2026 16/11/2026 17/11/2026 18/11/2026 23/11/2026		
	Revision	25/11/2026		

Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-1, Unit-2	09/09/2026		
A-2	Unit-3, Unit-4	07/09/2026		

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1, Unit-2 14/09/2026	As per HPTSB Academic Schedule		
Class Test -2	Unit-3, Unit-4 12/10/2026			
House Test	Unit-1 to Unit-4 1st week of Nov.			

11/08/26
Pankaj Kumar
(Signature of Teacher)

Sh. Vivek Singh
(Signature of HOD)

**Department of Automobile Engg.
Govt. Polytechnic Kullu
Distt. - Kullu (H.P.) - 175101**

LESSON PLAN

Program Name	Automobile Engineering
Subject Name	Two & Three Wheelers
Subject Code	AEPE 303-II
Semester	5th
Subject Teacher Name	Rishav

Evaluation Scheme

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1.	Two & Three Wheelers	3	-	40	-	40	60	-	60
Reference Books		1. Irving. P.E., Motor cycle Engineering, Temple Press Book, London, 1992. 2. The Cycle Motor Manual, Temple Press Ltd., London, 1990. 3. Encyclopedia of Motorcycling, 20 volumes, Marshall Cavensih, New York and London, 1989. 4. Bryaut. R.V., Vespa Maintenance and Repair series. 5. Raymond Broad, Lambretta - A practical guide to maintenance and repair, 1987. 6. Automobile Engineering Vol-I, II, Dr. Kirpal Singh							

Course Outcomes (COs)

CO - 1	Understand two and four stroke cycles.
CO - 2	Describe fuel system of two wheelers.
CO - 3	Explain electronic ignition system and starting system of two wheelers.
CO - 4	Describe disc and drum brake mechanisms.
CO - 5	Understand mechanisms of different kinds two wheelers used in India.

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-1 Power Unit	Two stroke and four stroke SI engine, merits and demerits.	06-08-26 12-08-26		
	Symmetrical and unsymmetrical port timing diagrams.	13-08-26		
	Types of scavenging process merits and demerits	19-08-26 20-08-26		
	Scavenging efficiency. Scavenging pumps.	22-08-26 26-08-26		
	Rotary valve engine.	27-08-26		
UNIT-II Various System	Fuel system. Lubrication system.	29-08-26 02-09-26		
	Magneto coil and battery coil spark ignition system.	03-09-26 05-09-26		
	Class Test-I	09-09-26		
	Electronic Ignition system. Starting system.	10-09-26 16-09-26		

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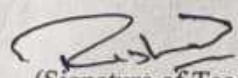
	Kick starter system.	17-09-26 19-09-26		
UNIT-III	Mainframe, its types. Chassis and shaft drive.	23-09-26 24-09-26		
Chassis and Sub-Systems	Single, multiple plates and centrifugal clutches. Gear box and gear controls.	26-09-26 30-09-26		
	Front and rear suspension- systems.	01-10-26		
	Shock absorbers. Panel meters	03-10-26 07-10-26		
	Controls on handle bar.	08-10-26		
	Class Test-II	14-10-26		
UNIT-IV	Drum brakes, Disc brakes	15-10-26 17-10-26		
Brake and Wheels	Front and rear brake links layouts.	21-10-26 22-10-26		
	Spoked wheel, Cast wheel. Disc wheel.	24-10-26 28-10-26		
	Disc types. Tyres & tubes.	29-10-26 31-10-26		
	House test	02-11-26 to 07-11-26		
UNIT-V	Case study of Major Indian models of motorcycles, SCOOTERS AND MOPEDS. Bajaj, Vespa, Lambretta scooters. Enfield, TVS- Suzuki	12-11-26 18-11-26		
Two Wheelers	Hero-Honda, Yamaha RX100, Kawasaki Bajaj Motor cycle. Kinetic Spark, Hero Majestic, TVS mopeds. Servicing and maintenance.	19-11-26 21-11-26		
	Three Wheelers: Case study of Indian Models. Front engine and rear engine. Auto rickshaws. Pickup van. Delivery Van and Trailer.	25-11-26 26-11-26 28-11-26		

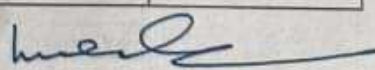
Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-1, Unit-2	05-09-26		
A-2	Unit-3, Unit-4, Unit-5	28-10-26		

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1, Unit-2	As per HPTSB Academic Schedule		
Class Test -2	Unit-2, Unit-3			
House Test	Unit-1 to Unit-4			


(Signature of Teacher)


(Signature of HOD)

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Principal
Govt. Polytechnic Kullu

Department of Automobile Engineering
Govt. Polytechnic Kullu Distt. – Kullu (H.P.)

LESSON PLAN

Program Name	Automobile Engineering
Subject Name	Automobile Workshop Practice-3
Subject Code	AEPC 307
Semester	5th
Subject Teacher Name	Rishav
Evaluation Scheme	N-22

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1.	Automobile Workshop Practice-3	-	4	-	40	40	-	60	60

Course Outcomes (COs)

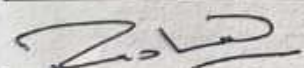
CO – 1	Apply basic knowledge for removal of vehicle parts.
CO – 2	Assemble the complete wiring of vehicle.
CO – 3	Understand the concept of Electric vehicle.
CO – 4	Inspect the vehicle and trouble shoot the engine problems.
CO – 5	Recondition the engine components on machines.

Teaching Plan

Practicals	Name of Practicals	Proposed	Actual Date	Remarks
Practical 1	Study of safety equipment's for electrical vehicles.	11-08-2026		G1
		14-08-2026		G2
Practical 2	Study of electric vehicle components (Drive chain, PDU, On board charger, BCM) and fault findings.	18-08-2026		G1
		21-08-2026		G2
Practical 3	Study of Electric Vehicle battery system, rating and drive train system in Electric Vehicle.	22-08-2026		G1
		22-08-2026		G2
Practical 4	Job on making the electric vehicle voltage free on two wheeler and electric vehicle.	25-08-2026		G1
		28-08-2026		G2
Practical 5	Job on measurement and diagnosis on electric drive motor in electric vehicle on trainer.	29-08-2026		G1
		29-08-2026		G2
Practical 6	Job on Removal of windows, replacement of window glass, fender and window motor mechanism.	01-09-2026		G1
		05-09-2026		G2
Practical 7	Diagnosis and installation of center locking connected car system and standard accessories.	05-09-2026		G1
		11-09-2026		G2
Practical 8	Job on removal of complete dashboard and installation	08-09-2026		G1
		18-09-2026		G2
Practical 9	Decarburizing of Engines: removing carbon deposits from engine combustion chamber, piston crown, and valve parts manually and by using engine de- carbonizing machine.	15-09-2026		G1
		19-09-2026		G2
Practical 10	Overhauling of Diesel engine.	19-09-2026		G1
		25-09-2026		G2
Practical 11	Surfacing of cylinder heads, cylinder blocks and manifolds with cylinder head re- facing machine.	26-09-2026		G1
		03-10-2026		G2
Practical 12	Practice in cylinder boring machine, measuring ovality and taperness of cylinder bore, using cylinder dial gauge, inside micrometer, telescopic gauge, and use of direct reading micrometer.	29-09-2026		G1
		09-10-2026		G2

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Practical 13	Practice in honing cylinder blocks, keeping allowance of cylinder clearances.	03-10-2026		G1
		17-10-2026		G2
Practical 14	Inspection and practice of crankshaft, crankpin, journal grinding, main journal grinding on crankshaft grinding machine.	06-10-2026		G1
		23-10-2026		G2
Practical 15	Practice of cam shaft journals on line boring machine.	13-10-2026		G1
		24-10-2026		G2
Practical 16	Servicing of valve and valve mechanism, replacement of valves.	17-10-2026		G1
		31-10-2026		G2
Practical 17	Testing of fuel injector in fuel injection tester.	27-10-2026		G1
		13-11-2026		G2
Practical 18	Calibrations of fuel injection pump on fuel calibration machine.	31-10-2026		G1
		20-11-2026		G2
Practical 19	Practice on brake drum lathe, measuring ovality, skimming the brake drum.	17-11-2026		G1
		21-11-2026		G2
Practical 20	Practice in nozzle grinding and lapping, setting of injection pressure and nature of spray.	21-11-2026		G1
		27-11-2026		G2


(Signature of Teacher)


(Signature of HOD)

Approved
Principal
Govt. Polytechnic Kullu
Distt. Kullu (H.P.)

**Department of Automobile Engineering
Govt. Polytechnic Kullu Distt. – Kullu (H.P.)**

LESSON PLAN

Program Name	Automobile Engineering
Subject Name	Driving Practice-II
Subject Code	AEPC 309
Semester	5th
Subject Teacher Name	Sandeep Thakur

Evaluation Scheme N-22

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1.	Driving Practice-II	-	4	-	40	40	-	60	60

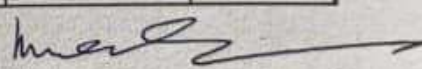
Course Outcomes (COs)

CO – 1	Able to demonstrate the appropriate responsibilities as a driver of a Vehicle.
CO – 2	Emphasis on dealing with police and accident cases.
CO – 3	Understand and apply concept of night driving, hill driving etc.
CO – 4	Acknowledge the vehicle recovery and repair.
CO – 5	Understand the record keeping of vehicle.

Teaching Plan

Practicals	Name of Practicals	Proposed	Actual Date	Remarks
Practical 1	Driving Techniques	11-08-2026		G1
		12-08-2026		G2
Practical 2	Revision	18-08-2026		G1
		19-08-2026		G2
Practical 3	Maneuver in: Passing, Merging, Diverging, Overtaking, Crossing, Turning, Cornering, Reversing, and Emergency	25-08-2026		G1
		26-08-2026		G2
Practical 4	Use of bye pass, sub way, over bridge and flyover	01-09-2026		G1
		02-09-2026		G2
Practical 5	Difficult driving- Night driving, Hill driving, driving under special conditions like fog, heavy rain and snow etc.	08-09-2026		G1
		11-09-2026		G2
Practical 6	Driving on highways: lane selection & lane discipline	15-09-2026		G1
		18-09-2026		G2
Practical 7	Public relations and dealing with police	22-09-2026		G1
		25-09-2026		G2
Practical 8	Fire Hazards	29-09-2026		G1
		07-10-2026		G2
Practical 9	First Aid	06-10-2026		G1
		14-10-2026		G2
Practical 10	Vehicle Repair & Maintenance: Break down recovery	13-10-2026		G1
		21-10-2026		G2
Practical 11	Recovery from police: accident cases	27-10-2026		G1
		28-10-2026		G2
Practical 12	Record keeping	12-11-2026		G1
		13-11-2026		G2
Practical 13	Accounting	19-11-2026		G1
		20-11-2026		G2


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