			vernment Polytechnic Kullu at Seobagh D Department of Automobile Eng	The second secon				
	1		Lesson Plan w.e.f 01-08-2025 to 2	The state of the s	Material Conf.			
Name	of Sub	ject:-	Basics of Thermodynamics, Hydraulics and Pneumatics	Session:-	Aug-Nov 2025			
Name	of Tea	cher:-	Er Maneet Guleria	Semester:-	3rd Semester			
200	mation:		Workshop Supdt. (Automobile Engg)	Scheme:-	N-2022			
Sr No Month Week		No. of Concession,	Contents					
		Week 1	Unit-1.Principles of Thermal Engineering: In properties -intensive and extensive, Property, p					
1		Week 2	Heat and work Enthalpy and internal energy. G law. Joule's law,					
	August	Week 3	Characteristic gas equation, gas constant, univenumerical problems.	ersal gas consta	ant. Simple	4		
	*	*	V	Week 4	Modes of heat transfer, conduction, convection, radiation, Fourier's Law. 4 Unit-II: Law of Thermodynamics and Air Cycles: Zeroth law of thermodynamics Irreversible process.			
		Week 5	First law of thermodynamics (concept only), Se (concept only),	cond law of th	ermodynamics			
	September	Week 1	Thermal efficiency and heat pump, heat engine	and heat sink	Concept of entropy,			
		Week 2	Class Test I					
2		Week 3	Constant volume, constant pressure, isotherma and free expansion processes (concept only).	lume, constant pressure, isothermal, adiabatic, polytropic thrott ansion processes (concept only).	lytropic throttling			
	S	Week 4	Air Cycles: Camot cycle, Otto cycle, Diesel cyc	cle.				
		Week 5	Dual combustion cycle.					
		Week 1	Unit-III: Air Compressors: Reciprocating air compressor.	compressor, (Centrifugal			
	5	Week 2	working of single stage and double stage comp	ressor and app	olications.			
3	October	Week 3	Class Test II					
	ő	Week 4	Rotary air compressor and supercharger, Unit- Properties of fluid,	IV: Hydrauli	cs: Types of fluid,			
		Week 5	Pascal Law, Components of hydraulic systems			1		
	1	Wook 1	Function of each componet in hydraulic circuit jack, Hydraulic Press.		.filter, hydraulic			
	4		House Test	1100				
4	ě -	Week 3	Unit-V: Pneumatics: Basic components and to	heir function,	iir			
3	ž	Week 4	single acting and double acting, Air filter, reguralves,	lator, different	types of control			
24	1	Neck 5	oncept of automation.	10 100 10 10	Charles 1980			

Signature of Teacher
(Er Mancet Guleria)

		Ge	vernment Polytechnic Kullu at Seobagh D	istt Kullu H.l	P. 175138			
			Department of Automobile Eng					
			Lesson Plan w.c.f 01-08-2025 to 2					
Name	of Sub	ject:-	Basics of Thermodynamics, Hydraulics and Pneumatics Lab	Session:-	Aug-Nov 2025	40		
Name	of Teac	cher:-	Er Maneet Guleria	Semester:-	3rd Semester			
Desig	nation:-		Workshop Supdt. (Automobile Engg)	Scheme:-	N-2022			
Sr No	Month	Week	Contents	Tooneme."	14-2022	Remarks		
	54-200 HEA	Week I				ZX III II I		
	Week Week Week	Week 2	To find flash point and fire point of given fuel. To find flash point and fire point of given fuel.					
1		lg.rns	Week 3	The point and the point of given rue!				
1		Week 4	The society of given fuel,					
		Week 5	To study air compressor.					
	September	Week I	To study air compressor.					
		Week 2	To analyze exhaust gases by exhaust gas analyze	rer.				
2		Septem	Septem	Week 3	To analyze exhaust gases by exhaust gas analyze	zer.		
				Sep	Sep	Week 4	To analyze exhaust gas for diesel engine throug	sel engine through smoke meter.
		Week 5	To analyze exhaust gas for diesel engine throug	h smoke mete	r.			
	4	Week 1	To conduct Morse test of multi-cylinder petrol	engines.				
	ber	Week 2	To conduct Morse test of multi-cylinder petrol	engines,				
3	October		To prepare heat balance sheet of an IC engine.					
	0	Week 4	To prepare heat balance sheet of an IC engine.					
-		Week 5	Identification of components in air conditionin	g system.				
	- 1	Week 1	Identification of components in air conditionin	g system.				
	nbe	Week 2	To develop hydraulic circuit using different cor	mponents.				
4	November	Week 3	To develop hydraulic circuit using different con	mponents.				
	2		Revision					
		Week 5	Revision					

Signature of Teacher (Er Mancet Guleria)

			Department of Automobile	Engineering					
			Lesson Plan w.e.f 01-08-2025	to 26-11-2025					
Name	of Sub	ect:-	Automotive Materials	Session:-	Aug-Nev 2025				
Name	of Teac	her:-	Er Maneet Guleria	Semester:-	3rd Semester				
	mation:		Workshop Supdt. (Automobile Engg)	Scheme:-					
TO SPAN	Month	The same		A No.	11.202	W. Carlos			
	13400111	HEER	Conte		Remarks				
		Week 1	metals used in Automobile Industry,	of common metals	s, their alleys and non-				
	-	Week 2	Properties of metals and alloys, Physical pro- density and melting point, Mechanical Prope plasticity, toughness, ductility, malleability, I Thermal and electrical conductivity and corr	erties: Strength, st brittleness, hardne	iffness, clasticity.				
1	August	Week 3	Thermal and electrical conductivity and corr Metals and Alloys: Effect of alloying eleme Nickel, Cobalt, Manganese, Molybdenum, to Phosphorus.	ents such as Alum	inium, chromium,				
	1 50	Week 4	Control of the Contro	alloy steels such teel, spring steel	as High speed steel,				
		Week 5	Composition, properties, grades and uses of Stainless steel, Silicon steel, Heat resistant st carbon diagram, objectives and practical asp	teel, spring steel.	Heat Treatment: Iron-				
		Week I	Description and uses of principal heat treatm Tempering, Hardening, and Carburising, Nits Case hardening and surface hardening.	ent processes An riding and Cyanic	nealing, Normalizing, ling and applications.				
		Week 2	Class Test I						
2	September	Week 3	Hardenability of steels, Examples in heat treating automobile engineering components Unit III: Non-ferrous Metals and Alloys: Copper: Properties and uses, Composition, properties and uses of copper alloys.						
	Sept	Week 4	Class Test I, Brass: Cartridge brass, Nickel s Al-bronze, Mn-bronze, and Gunmetal ,Prope grades Composition .						
		Week 5	properties and uses of Al- alloys e.g., Durah Hindalium Properties and uses of alloys of le	umin, Yellow met ead, tin and magn	al, Magnelium and esium.	71			
		Week 1	Bearing Metal: Requisite qualities, Composi- bearing, Copper based bearing metals. Alum	inium based bear	ing metals.				
		Week 2	Use of nylon/PTFE for bushes/bearings, bi- Identification and Examination of Metals -Appearance, sound, filing, weight, magnetic	and Alloys: Iden	tification tests				
3	900	-Appearance, sound, filing, weight, magnetic, spark, bend and micro Week 3 Class Test II Unit V: Other Important Materials, Plastics, Definition plassific	marconoctate.						
	C	Week 4	Unit V: Other Important Materials: Plastic fiberglass, reinforced plastics: Major applica- mention of their uses and grades,	es: Definition, cla tions of various p	assification of plastics, plastics with specific				
		Week 5	 Heat insulating materials: Properties and us cork, mica. Sound insulating materials: Cork. 	fiberboards.					
		Total .	Fabrication materials: Wood, plywood, Rubb class, toughened glass, safety glass	er - natural and s	ynthetic, Glasses - plat	e			
	1	Week 2 I		and the same of					
	November	Veels 3	Electrical insulating materials, properties and abonite, glass wool, Refractory materials: Ge dolomite, ceramics.	meral characteria	tics and uses of	1			
	Z		Protective coating materials: Auto paints, pri electroplating materials.	mera, varnishes,	enamels, putti,				
	V		Adhesive requirements types and advantages inti-rust solution.	, thread locking	special solution,	100			

Signature of Tencher (Er Mancet Guleria)

			Department of Automobi	the state of the s				
			Lesson Plan w.e.f 01-08-20:	The state of the s				
Name	of Sub	ject:-	Automobile Chassis, Body And Transmission – I	Session:-	Aug-Nov 2025			
Name of Teacher:-			Er Rishav	Semester:-	3rd Semester			
Designation:-			Lecturer (Automobile Engg)	Scheme	N-2022			
Sr No	Month	The state of the s		Remarks				
		Week 1	Unit I: Chassis and Body: Classification of conventional type of chassis, function and	vehicles, types of ch	nassis, layout of			
	15	Week 2	Alternation resources to and out to an an					
1	August	Week 3	turn and the second sec	oss members, brack	ets, materials of frame			
		Week 4	Linit II. Clutch, Nanosch, Sandan and an	quirements of clutch	n, types of clutch -			
	1	Week 5	multi plate clutch, hydraulic power assiste	ed and wet and dry	plate clutch,			
	September	Week I	clutch plate and lining material Constructi semi centrifugal clutch, diaphragm clutch	ional details and wo	rking of centrifugal,			
		Week 2	lass Test I					
2		Week 3	nit III: Transmission: Necessity, function and types of manual transmissionSliding, onstant mesh and synchromesh.					
		Week 4	Over drive, over running clutch, description Common faults and remedies, trans axle of	Control of the Contro	transfer gear box.			
		Week 5	Types of automatic transmission and their gearbox-construction,	main components.	Epicyclic			
	te le	Week I	working and determination of speed ratio of working. Continuously variable transm		Construction, principle			
		Week 2	Automated Manual Transmission, hydrosi box (DSG).		ystems, direct shift gear			
3	ctober	Week 3	Class Test II	DE BUILDING				
	0	Wools 4	Unit IV: Final Drive: Propeller shaft-func- jointsfunctions and types. Types of final d					
		No. J. E	Differential - principle, functions and wor quarter floating. Fully floating. Common	king. Rear axles- s	emi floating, three			
	,	Week 1	UNIT V: Front Axle & Steering: Types - Steering in the Steering on axle shapeteering knuckle.					
110	5 1	Veek 2	louse Test					
	November	A CARLING THE LA	Steering mechanism, function, Ackerman onstructional details of steering gear, steer	and the same of th	The state of the s			
	ž V		rag link and tie rod, steering ratio. Front					
		Veek 5 s	Types, Construction features and working ystems , four wheel steering, adjustable steering systems troubles and remedies.	of hydraulic and	electronic power steerin			

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Government Polytecamic Kunu at Seonaga Disit Kunu H.P. 1/5156 Department of Automobile Engineering Lesson Plan w.e.f 01-08-2025 to 26-11-2025 Aug-Nov 2025 Session:-Garage Equipment Name of Subject:-3rd Semester Semester:-Er Vivek Singh Name of Teacher:-N-2022 Scheme:-H.O.D(Automobile Engg) Designation:-Remarks Sr No Month Week 1. General Equipment Specifications and applications of • Drilling machine (portable) along with set of drills . Bench grinder . Air compressor and pneumatic gun . Hydraulic and electric hoists . High pressure washing equipment (Car washer, Week I Car vacuum cleaner, Buffing tool) • Oil sprayers Grease Guns-manual and bucket type, pneumatic • Tyre inflation gauge (Manual and Digital type automatic) • Tyre Changer (Manual and Automatic) • Creepers • Fire Week 2 extinguisher • First aid box. 2. Tuning and Testing Equipment Specifications and applications of * Vacuum Week 3 Gauge • Compression Gauge (Pressure Gauge) 3. Engine Repair Tools/Measuring and Testing Equipment Specifications and applications of • Torque wrench, pneumatic wrench • Piston ring compressor • Valve Week 4 lifter and valve spring tester Piston ring files, groove cleaner • Scrappers • Piston ring remover • Cylinder Dial gauge • Smoke meter • Engine Analyser/ Scanner • Part degreasing tank Week 5 4. Electrical Repair Equipment Specifications and uses of • Electrical Test Bench Week 1 · Battery Charger Class Test I Week 2 Week 3 . Head Lights Beam Aligner and Tester (Electronic and Digital type) . Growler 2 5. Reconditioning/Testing Equipment for Chassis and Body. Use of • Brake Efficiency Tester (Chassis Dynamometer) or brake testing equipment . Weck 4 Week 5 Clutch Fixures and Brack Line Rivetters,pop riveting gun, · Crane and Chain Pulley Block · Jacks · mechanical, hydraulic, trolley type · Paint chamber • Paint Spray Gun • Paint Drying Equipment Week I Tools for tyres, automatic tyre remover • Trolleys • Axle/chassis stands • Steering Week 2 work stands . Jib crane . Spring tester . Class Test II Week 3 •Frame strengthening equipment • .Chassis alignment equipment • Computerized 3 Week 4 wheel balancer -static and dynamic Computerized wheel balancer -static and dynamic • Computerized wheel alignment Week 5 equipment. . Engine Reconditioning and Testing Equipment Specifications and use of Cylinder Boring Machine and Honing Machine . • Crankshaft Machine and Camshaft Grinding Week 1 •Connecting Rod Aligner •Line Boring Machine and Arbor Press •Nozzle Grinding November Week 2 and Lapping Machine •Fuel Injection Pump Calibrating Machine •Valve Refacer, Valve Seat Cutting and Week 3 Grinding Week 4 •Radiator Tester •Cylinder head leakage testing fixture

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Week 5 Fuel injector tester •Nozzle cleaning equipment

Signature of Teacher (Er Vivek Singh) mela

	_				omobile Engineerin			
	- 50	Silver		Lesson Plan w.e.f 01-	08-2025 to 26-11-20)25		
_	ne of			Production Process-I	Session	-	Aug-Nov 2025	
_	ne of	100000	her:-	Er Maneet Guleria	Semeste	Tr-	3rd Semester	
Desi	gnati	on:-		Workshop Supdt. (Automobile Et	Workshop Supdt. (Automobile Engg) Scheme:- N-2022			
Sr N	o Mo	outh	Weel		Contents		11-2022	Remark
			Week	Unit I: Cutting Fluids & Lubricants:	: Introduction: Types	of cut	ting fluids,Fluids and	Kemara
1	1.	_	Week	Selection of cutting fluids, methods cutting parameters, tool signature,	of application of cutt	ing flu	ning; uid,Lathe Operations:	
		angus	Week :	Throng and a Fig. 1	n duty and heavy duty	geare	ed lathe, CNC lathe;	
			Week 4	drilling, threading, step turning, tape Making Types of Pattern.	er turning.Unit II: Fou		THE RESERVE OF THE PARTY OF THE	
			Week 5	Pattern Materials, Pattern Allowance to Moulding, Types of Moulding San	d and their propertie			
			Week 1	Metal Drawing, Spinning.	ngs. Metal forming pr	ocess	es: Die stamping,	
	-	-	Week 2	Class Test 1				
2	September		Week 3	Rolling, Extruding, Forging, and Tub Processes: Processes, Procedures,	be Drawing. Unit III:	Mod	ern Machining	
			Week 4	Advantages, LAdimitations and App	dications of Electro di			
	97			Advantages, LAdimitations and Apple chemical Machining, USM, AJM and welding techniques.	d LBM, Unit-IV: Weld	schar ling:	ge machining, Electro Classification;Gas	
	-	1	Week 5	welding techniques. Types of welding flames. Arc Welding – Principle, Equipment, Submerged arc welding; TIG / MIG v	Applications; Shield	ding:	Classification;Gas	
	October	V	Week 5 Week 1	welding techniques. Types of welding flames.	Applications; Shield welding; Resistance w Welding defects; ples, Applications. Mi , vertical; construction d and differential include	ding:	classification; Gas etal arc welding; g - Spot welding, Introduction; Types etails - specifications;	
		N N	Week 5 Week 1 Veck 2	welding techniques. Types of welding flames. Are Welding – Principle, Equipment, Submerged are welding; TIG / MIG v Seam welding, Projection welding; W Brazing and soldering: Types, Princip of milling machines: plain, Universal, Milling operations: simple, compound types; Nomenclature of teeth; Teeth in & work holding devices Class Test II	Applications; Shield welding; Resistance w Welding defects; ples, Applications. Mi , vertical; construction d and differential inden materials; Tool signatu	ding: ed mo velding: lling: nal de exing; are of	classification; Gas etal are welding; g - Spot welding, Introduction; Types etails - specifications; Milling cutters - milling cutter; Tool	
		W	Week 5 Week 1 Week 2 Week 3 Week 4	welding techniques. Types of welding flames. Arc Welding – Principle, Equipment, Submerged arc welding; TIG / MIG v Seam welding, Projection welding; W Brazing and soldering: Types, Princip of milling machines: plain, Universal, Milling operations: simple, compound types; Nomenclature of teeth; Teeth m & work holding devices	Applications; Shield welding; Resistance welding defects; ples, Applications. Mi , vertical; construction d and differential inde- materials; Tool signature	ding: ed movelding: lling: nal de- exing: are of	classification; Gas etal are welding; g - Spot welding, Introduction; Types etails - specifications; Milling cutters - milling cutter; Tool	
		W	Week 5 Week 5 Week 2 Week 2 Week 3 Week 4 Freek 5 Freek 5	welding techniques. Types of welding flames. Arc Welding – Principle, Equipment, Submerged arc welding; TIG / MIG v Seam welding, Projection welding; W Brazing and soldering: Types, Principle of milling machines: plain, Universal, Milling operations: simple, compound types; Nomenclature of teeth; Teeth machines: Nomenclature of teeth; Teeth machines: Types and the seam of t	Applications; Shield welding; Resistance welding defects; ples, Applications. Mil, vertical; construction and differential indenaterials; Tool signature or a system – type	ed movelding: lling: nal deexing; are of	classification; Gas etal arc welding; g - Spot welding, Introduction; Types etails - specifications; Milling cutters - milling cutter; Tool manual programming notion control;	
		W	Week 5 Week 1 Week 2 Week 3 Week 4 Feek 5 Feek 5 Feek 1	welding techniques. Types of welding flames. Arc Welding – Principle, Equipment, Submerged arc welding; TIG / MIG v Seam welding, Projection welding; Welding, Projection welding; Welding and soldering: Types, Principle of milling machines: plain, Universal, Milling operations: simple, compound types; Nomenclature of teeth; Teeth in & work holding devices Class Test II Unit V: Part Programming: NC part proposes to point. Paraxial and contouring. APT programming – Format: sequenting and points – tool material – tool ference points – tool material – tool	Applications; Shield welding; Resistance welding; Resistance welding defects; ples, Applications. Mil, vertical; construction and differential indenaterials; Tool signature organization of the property of t	ed movelding: Illing: nal doexing; are of	classification; Gas etal are welding; g - Spot welding; Introduction; Types etails - specifications; Milling cutters - milling cutter; Tool manual programming notion control; ets - sequence	
	October	We We	Week 5 Week 1 Week 2 Week 3 Week 4 Feek 5 Feek 5 Feek 1 Feek 1 Feek 2 Heek 2 Heek 2 Heek 2 Heek 2 Heek 3	welding techniques. Types of welding flames. Are Welding – Principle, Equipment, Submerged are welding; TIG / MIG v Seam welding, Projection welding; W Brazing and soldering: Types, Princip of milling machines: plain, Universal, Milling operations: simple, compound types; Nomenclature of teeth; Teeth in & work holding devices Class Test II Juit V: Part Programming: NC part proconversational programming — coordinate point. Paraxial and contouring. APT programming – Format: sequenting umber — Datum points: machine zero, reference points — tool material — tool imensioning — preparatory functions ouse Test	Applications; Shield welding; Resistance welding defects; ples, Applications. Mit, vertical; construction d and differential indenaterials; Tool signature organization of the control of	ed me velding: Illing: nal de exing; are of the sof th	classification; Gas etal are welding; g - Spot welding, Introduction; Types etails - specifications; Milling cutters - milling cutter; Tool manual programming notion control; ets - sequence dimensioning - compensation - NC 17	
	October	We We	Week 5 Week 5 Week 2 Week 3 Week 4 Feek 5 Feek 1 Rek 3 Rek 3 Rek 3 Rek 3 Rek 3	welding techniques. Types of welding flames. Are Welding – Principle, Equipment, Submerged are welding; TIG / MIG v Seam welding, Projection welding; W Brazing and soldering: Types, Princip of milling machines: plain, Universal, Milling operations: simple, compound types; Nomenclature of teeth; Teeth in & work holding devices Class Test II Unit V: Part Programming: NC part processes to point. Paraxial and contouring. APT programming – Format: sequenting umber – Datum points: machine zero, eference points – tool material – tool imensioning – preparatory functions to ouse Test iscellaneous functions and M codesterpolation - CNC program procedure.	Applications; Shield welding; Resistance welding defects; ples, Applications. Mil, vertical; construction d and differential indenaterials; Tool signature organization of the property of the	ed movelding: lling: nal deexing; are of s of n forma	classification; Gas etal are welding; g - Spot welding; Introduction; Types etails - specifications; Milling cutters - milling cutter; Tool manual programming notion control; ets - sequence dimensioning - compensation - NC 17	
		We We We	Week 5 Week 5 Week 2 Week 3 Week 4 Feek 5 Feek 1 Feek 1 Feek 3 Feek 3 Feek 4 Feek 3 Fe	welding techniques. Types of welding flames. Are Welding – Principle, Equipment, Submerged are welding; TIG / MIG v Seam welding, Projection welding; W Brazing and soldering: Types, Princip of milling machines: plain, Universal, Milling operations: simple, compound types; Nomenclature of teeth; Teeth in & work holding devices Class Test II Juit V: Part Programming: NC part proconversational programming — coordinate point. Paraxial and contouring. APT programming – Format: sequenting umber — Datum points: machine zero, reference points — tool material — tool imensioning — preparatory functions ouse Test	Applications; Shield welding; Resistance welding defects; ples, Applications. Mil, vertical; construction d and differential indenaterials; Tool signature organization of the property of the	ed movelding: lling: nal deexing; are of s of n forma	classification; Gas etal are welding; g - Spot welding; Introduction; Types etails - specifications; Milling cutters - milling cutter; Tool manual programming notion control; ets - sequence dimensioning - compensation - NC 17	

Signature of Teacher

Signature of H.O.D

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Govt. Polytechnic Kullu (H.P.) Mechanical Workshop Planning

Branch : Automobile Engineering

Semester: 3rd

Subject: Mechanical Workshop (Welding Shop)

Session: Aug. - Nov. -2025

Teacher: Bhupinder, WSI Welding

Workshop	Month	Week	Detail of Contents	Reference Resources	Remarks
	Aug.	Week 2 Week 3 Week 4 Week 5	i) Demonstration of different welding tools / machines.	R1,R2	
Welding Workshop	Sep.	Week 1 Week 2 Week 3 Wook 4 Week 5	One exercise on lap and butt joint each with arc welding. One exercise of vertical and overhead arc welding.		
Workshop	Oct.	Week 1 Week 2 Week 3 Week 4 Week 5	One exercise of welding and cutting. One exercise of spot welding. One exercise of TIG welding		
	Nov.	Week 1 Week 3 Week 4 Week 5	One utility article Report Checking and evaluationReport Checking and evaluation		

Teacher's references.

A Text Book Workshop Technology by Dr. R. K. Singal RI.

Advanced Welding Technology by Dr. S.P. Tewari R2.

Signature of Teacher

Workshop Supdt.

H.O.D.(Auto, Engg.)

		Go	vernment Polytechnic Kullu at Scobagh	mineering					
			Department of Automobile Er	26.11.2025					
			Lesson Plan w.e.f 01-08-2025 to		Aug-Nov 2025				
Name	of Subje	ct:-	Automobile Workshop Practice-1	Session:-	3rd Semester				
	of Teach		Er Rishav& Sh. Pushpender	Semester:-	3rd Semester				
-	nation:-		Lecturer (Automobile Engg) & Apprentice MMV	Scheme:-	N-2022	Remar			
e-Na	Month	Week	Conten			100000			
SP INU	Nomi	Week 1	Unit I: Chassis and Body: Classification of vehi conventional type of chassis, function and arr	icles, types of o	hassis, layout of najor assemblies.				
		Week 2	Alternating arrangement used such as engine	posicion, arriv					
1	Angust	Week 3	types of frame and body streamlining, cross	members, bra	ckets, materials of fram	le l			
	<	Week 4	Unit II: Clutch: Necessity, function and requir						
	1	Week 5	Single place cruters	and wet and dr	y plate clutch,	-			
	September	Week I	clutch plate and lining material Construction	al details and v	vorking of centritugal,				
		Week 2	Class Test I						
		Week :	Unit III: Transmission: Necessity, function of constant mesh and synchromesh.			ng.			
-2		Week	Over drive, over running clutch, description Common faults and remedies, trans axle con	and operation	of transfer gear box.				
6					180	Week			
		Week	working and determination of speed ratio T of working. Continuously variable transmi	forque convert	er. Construction, princi	gear			
	October	October	Week	Automated Manual Transmission, hydrosu	atic transmissi	ou systems, direct same			
3			Octobe	Week		ion constructi	ion details. Universal		
				9	9	9	Week	Class Test II Unit IV: Final Drive: Propeller shaft-function, construction details. University of the property of the propert	
		Differential - principle, functions and working. Real and	faults and rem	edie					
		Week	UNIT V: Front Axle & Steering: Types	pe, steering he	ead, Elliot and reverse	elliot,			
	1 25	Week	2 House Test	de Principle of	f steering. Working and	1			
	November	Week				m,			
100	200 X	Week	that and tie rod steering ratio, Fron	I Mileer Region	on J. constoat contract.				
		Week	Types, Construction features and workin systems ,four wheel steering, adjustable steering systems troubles and remedies.	Steering .veve	and telescopic type, C	ommon			

Signature of Teacher
Er Rishav& Sh. Pushpender

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		Gove	rnment Polytechnic Kullu at Scobagh Department of Automobile E	ngineering			
			Lesson Plan w.c.f 01-08-2025 to	26-11-2025			
				The second second	2025		
Name	of Subje	ct:-	Introduction to Computer Aided Drafting	Session:-	Aug-Nov 2025		
	of Teach	ories.	Er Maneet Guleria	Semester:-	3rd Semester		
100000	Name of Teachert-		Waylishon Sandt, (Automobile Engg) Scheme:- N-2022				
Design	esignation;-		Contents				
Sr No	Month	Week			a Arouring		
		Week 1	Introduction to CAD: Advantages and applienvironment: Limits, Grid, Snap, Axis, Unit Units and Color.	no, o, me,			
	August	Week 2	Setting the drawing environment: Limits, C				
1		Week 3	The second secon	ircle, Ellipse, Poly	gon, and Trace:		
	3	Week 4	Object Selection using Object Snap (OSNA	ove, Scale,			
		Week 5	In Chamfor Mirror Array-Pols	if. Rectangular, in	easure,		
		Week 1	Divide, and Erase. Drawing Display Metho	near, continued, a	ngular		
		Week 2	More Learning for Productivity of Drawin	g: Pedit command	is. Working the		
2	September	Week 3	-Various options with layer command - Ha				
	Sep	Week 4	Preparing the schematic drawing of a work	al connection on a	mother tayer.		
		Week 5	Advanced Cad Features: Drawing 2D fig	ure of complex sh	ape, Extruding it in	0	
	October	Week	Understanding 3D Co-ordinate values, Cr Rotating the drawings- Meshing 3D draw	ing.Turning 3D ir	no 2D Orino Grapin		
3		toher	Advanced 3D Features: Understandin	Advanced 3D Features: Understanding mand working in UCS. * UCS icon, 3D editing-Union, Subtraction	on, 3D Orbit	aper space. Drawing	
	0	Week :	1 12	er, Cone.			
	1	Week 4	Chamfer ,Revolve				
		Week :	Drawing of Following Automobile comp	onents: *Four St	oke Petrol Engine		
		Week					
	12	The second second	Connecting rod				
4	em	100 mm (100 mm (100 mm)	Fuel injector				
100	November		Crank shaft -4 cylinder Engine				
	-		Crank shaft -4 cylinder Engine				

Signature of Teacher (Er Mannet Guleria)