LESSON PLAN

Name of Teacher :- Ravi Sankhyan **Subject:** Automotive Material **Class:** 3rd Semester Automobile Engg.

S. No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	August	1st week	2,4	Unit I: Properties of Materials:	Classification: Metals and non-metals, Ferrous and non- ferrous metals and their alloys, Properties of metals and alloys,	
2		2nd week	7,11,14		Names of common metals, their alloys and non metals used in Automobile Industry, Physical properties - Appearance, luster, color, density and melting point,	
3		3rd week	18,21,23		Mechanical Properties: Strength, stiffness, elasticity, plasticity, toughness, ductility, malleability, brittleness, hardness, fatigue and creep. Thermal and electrical conductivity and corrosion resistance.	
4		4th week	25,28,30	Unit II: Ferrous Metals and Alloys:	Effect of alloying elements such as Aluminium, chromium, Nickel, Cobalt, Manganese, Molybdenum, tungsten, Vanadium, Silicon, Sulphur and Phosphorus. Composition, properties,	1st Assignment
5	September	1st week	1,4,6		grades and uses of alloy steels such as High speed steel, Stainless steel, Silicon steel, Heat resistant steel, spring steel.	
6		2nd week	8,11,15	Unit II: Ferrous Metals and Alloys:	Heat Treatment: iron- carbon diagram, objectives and practical aspects of heat treatment. Description and uses of principal heat treatment processes Annealing, Normalizing, Tempering, Hardening, and Carburising, Nitriding and Cyaniding and applications.	class test 1
7		3rd week	18,20,23		Case hardening and surface hardening, Hardenability of steels, Examples in heat treating automobile engineering components.	
8		4th week	25,27, 29	Unit III: Non-ferrous Metals and Alloys:	Copper: Properties and uses, Composition, properties and uses of copper alloys. Brass: Cartridge brass, Nickel silver.	
9	October	1st week	1,2		Bronze: Phosphor bronze, Al-bronze, Mn-bronze, and Gunmetal. Properties and uses of Aluminium and their grades Composition,	
10		2nd week	6,9		properties and uses of Al- alloys e.g., Duralumin, Yellow metal, Magnelium and Hindalium Properties and uses of alloys of lead, tin and magnesium.	PTM
11		3rd week	13,		Bearing Metal: Requisite quailties. Composition, properties and uses of white metal bearing. Copper based bearing metals. Aluminium based bearing metals. Use of nylon/PTFE for bushes/bearings, bi- metallic and tri-metallic bushes	class test 2
12		4th week	23,25	Unit IV: Identification and Examination of Metals and Alloys:	Identification tests -Appearance, sound, filing, weight, magnetic, spark, bend and microstructure.	2nd assignment
13		5th week	27,30	Unit V: Other Important Materials:	Plastics: Definition, classification of plastics, fiberglass, reinforced plastics. Major applications of various plastics with specific mention of their uses and grades,	
14	November	1st week	1,		Heat insulating materials: Properties and uses of asbestos, glass wool, Thermocole, cork, mica. Sound insulating materials: Cork, fiberboards. Fabrication materials: Wood, plywood, Rubber - natural and synthetic, Glasses - plate glass, toughened glass, safety glass.	
15		2nd week		House Test		
16		3rd week	10,13,15,17	Unit V: Other Important Materials:	Electrical insulating materials, properties and uses of china clay, leather Bakelite, ebonite, glass wool, Refractory materials: General characteristics and uses of dolomite, ceramics. Protective coating materials: Auto paints, primers, varnishes, enamels, putti, electroplating materials.	
17		4th week	20,22,24		Adhesive requirements types and advantages, thread locking special solution, anti-rust solution.	

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Signature of Teacher

LESSON PLAN

Name of Teacher :- Jitender Kumar **Subject:** Basics of thermodynamics Hyd. & Pnts. **Class:** 3rd Semester Automobile Engg.

S. No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	August	1st week	1,2,4,4,5	Unit-1. Principles of Thermal Engineering:	Introduction, Thermodynamics properties – intensive and extensive, Property,	
2		2nd week	8,11,11,12		path, process, system, surroundings, Heat and work Enthalpy and internal energy.	
3		3rd week	18,18,19,22, 23		Gas Laws: Boyle's law, Charle's law, Joule's law, Characteristic gas equation, gas constant, universal gas constant. Simple numerical problems.	
4		4th week	25,25,26,29, 30		Modes of heat transfer, conduction, convection, radiation, Fourier's Law.	1st Assignment
5	September	1st week	1,1,2,5,6,8	Unit-II: Law of Thermodynamics and Air Cycles:	Zeroth law of thermodynamics Irreversible process, First law of thermodynamics (concept only),Second law of thermodynamics (concept only),	
6		2nd week	9,12,15,15		Thermal efficiency and heat pump, heat engine and heat sink Concept of entropy,	class test 1
7		3rd week	16,19,20,22		Constant volume, constant pressure, isothermal, adiabatic, polytropic throttling and free expansion processes (concept only).	
8		4th week	23,26,27,29, 30		Air Cycles: Carnot cycle, Otto cycle, Diesel cycle, and Dual combustion cycle.	
9	October	1st week	3,4	Unit-III: Air Compressors:	Reciprocating air compressor, Centrifugal compressor working of single stage	
10		2nd week	6,6,10		double stage compressor and applications, Rotary air compressor and supercharger.	PTM
11		3rd week	13,13,14	Unit-IV: Hydraulics:	Types of fluid, Properties of fluid, Pascal Law,	class test 2
12		4th week	21,24,25		Components of hydraulic systems, Function of each component in hydraulic circuit, Oil reservoir, filters,	
13		5th week	27,27,28,31		Hydraulic Jack, Hydraulic Press.	2nd assignment
14	November	1st week	1,	Unit-V: Pneumatics:	Basic components and their function,	
15		2nd week		House Test		
16		3rd week	10,11,14, 15, 17	Unit-V: Pneumatics:	air cylinders – function, single acting and double acting, air filter, regulator,	
17		4th week	18,21,22,24, 25		different types of control valves, concept of automation.	

Signature of Teacher

LESSON PLAN

Name of Teacher :- Jitender Kumar **Subject:** ACBT-I **Class:** 3rd Semester Automobile Engg.

S. No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	August	1st week	2,4,5,6,7	Unit I: Chassis and Body:	Classification of vehicles, types of chassis, layout of conventional type of chassis, function and arrangement of major assemblies.	
2		2nd week	11,12,13,14		Alternating arrangement used such as engine position, drive types, their merits and demerits., types of frame and body streamlining, cross members, brackets, materials of frame and body upholstery.	
3		3rd week	18,19,20,21, 23	Unit II: Clutch:	Necessity, function and requirements of clutch, types of clutch - single plate clutch, multi plate clutch, hydraulic power assisted and wet and dry plate clutch,	
4		4th week	25,26,27,28, 30		clutch plate and lining material Constructional details and working of centrifugal, semi centrifugal clutch, diaphragm clutch and fluid coupling.	1st Assignment
5	September	1st week	1,2,3,4,6	Unit III: Transmission:	Necessity, function and types of manual transmission- Sliding, constant mesh and synchromesh.	
6		2nd week	8,9,10,11,15		Over drive, over running clutch, description and operation of transfer gear box. Common faults and remedies, trans axle construction.	class test 1
7		3rd week	16,17,18,20, 22		Types of automatic transmission and their main components. Epicyclic gearbox-construction, working and determination of speed ratio Torque converter.	
8		4th week	23,24,25,27, 29, 30		Construction, principle of working. Continuously variable transmission,	
9	October	1st week	1,4		Automated Manual Transmission, hydrostatic transmission systems, direct shift gear box (DSG).	
10		2nd week	6,8,9	Unit IV: Final Drive:	Propeller shaft-function,	PTM
11		3rd week	13,14,15		construction details. Universal joints- functions and types. Types of final drive - hotchkiss drive, torque tube drive. Differential - principle, functions and working.	class test 2
12		4th week	21,23,25		Rear axles- semi floating, three quarter floating. Fully floating. Common faults and remedies	
13		5th week	27,28,29,30	UNIT V: Front Axle & Steering:	Types - Stub double drop, fully dropped,	2nd assignment
14	November	1st week	1,		load distribution, effect of braking on axle shape, steering head, Elliot and reverse elliot, steering knuckle. Steering mechanism, function, Ackerman's Principle of steering.	
15		2nd week		House Test		
16		3rd week	10,11,12,13,15 , 17,18	UNIT V: Front Axle & Steering:	Working and constructional details of steering gear, steering linkages, sector arm, center arm, drag link and tie rod, steering ratio. Front wheel geometry-castor, camber,steering axis inclination, toe in and toe out. Cornering force, cornering power and self- righting torque. Over steering and understeering.	
17		4th week	19,20,22, 24,25, 26		Traction control system, Power steering- necessity, types, Construction features and working of hydraulic and electronic power steering systems ,four wheel steering, adjustable steering -rake and telescopic type, Common steering systems troubles and remedies.	

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LESSON PLAN

Name of Teacher :- Ravi Sankhyan **Subject:** Garage Equipment **Class:** 3rd Semester Automobile Engg.

S. No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	August	1st week	1,2	Unit I: General Equipment Specifications and applications of:	Drilling machine (portable) along with set of drills Bench grinder Air compressor and pneumatic gun	
2		2nd week	6,8,13		Hydraulic and electric hoists High pressure washing equipment (Car washer, Car vacuum cleaner, Buffing tool) Oil sprayers	
3		3rd week	20,22,23		Grease Guns-manual and bucket type, pneumatic Tyre inflation gauge (Manual and Digital type automatic) Tyre Changer (Manual and Automatic) Creepers Fire extinguisher First aid box.	
4		4th week	27,29,30	Unit II: Tuning and Testing Equipment Specifications and applications of:	Vacuum Gauge, Compression Gauge (Pressure Gauge) Distributor Tester,	1st Assignment
5	September	1st week	3,5,6		Cam (dwell) angle tester, r.p.m. tester. Battery Tester Spark plug cleaner and tester Ignition timing light	
6		2nd week	10,12		Fuel injector tester Fuel consumption tester.	class test 1
7		3rd week	17,19,20	Unit III: Engine Repair Tools/Measuring and Testing Equipment Specifications and applications of:	Torque wrench, pneumatic wrench	
8		4th week	23,26,27		Piston ring compressor Valve lifter and valve spring tester Piston ring files,	
9	October	1st week	1,3,4		groove cleaner Scrappers Piston ring remover Cylinder Dial gauge Smoke meter Engine Analyser/Scanner Part degreasing tank.	
10		2nd week	8,10	Unit IV: Electrical Repair Equipment Specifications and uses of	: Electrical Test Bench	PTM
11		3rd week	15,17,18		Battery Charger Head Lights Beam Aligner and Tester (Electronic and Digital type)	class test 2
12		4th week	24,25		Growler	
13		5th week	29,31	Unit V Reconditioning/Testing Equipment for Chassis and Body Use of:	Brake Efficiency Tester (Chassis Dynamometer) or brake testing equipment Clutch Fixtures	2nd assignment
14	November	1st week	1,		Brake Line Rivetters, pop riveting gun Crane and Chain Pulley Block Jacks mechanical, hydraulic, trolley type	
15		2nd week		House Test		
16		3rd week	12,14,15	Unit V Reconditioning/Testing Equipment for Chassis and Body Use of:	Paint chamber Paint Spray Gun Paint Drying Equipment Tools for tyres, automatic tyre remover, Jib crane, Spring tester, Frame strengthening equipment Chassis alignment equipment Computerized wheel balancer -static and dynamic Computerized wheel alignment equipment,	
17		4th week	19,21,22,26		Valve Refacer, Valve Seat Cutting and Grinding, Radiator Tester, Cylinder head leakage testing fixture Fuel injector tester, Nozzle cleaning equipment.	

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LESSON PLAN

Name of Teacher :- Rishu Dhiman **Subject:** Production Processes - I **Class:** 3rd Semester Automobile Engg.

S. No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	August	1st week	4,4,5,7	Unit I: Cutting Fluids & Lubricants:	Introduction; Types of cutting fluids, Fluids and coolants required in turning, drilling, shaping, sawing & broaching; Selection of cutting fluids,	
2		2nd week	11,12,14		methods of application of cutting fluid; Classification of lubricants (solid, liquid, gaseous), Properties and applications of lubricants.	
3		3rd week	18,19,21		Lathe Operations: cutting parameters, tool signature, Types of lathes – light duty, Medium duty and heavy duty geared lathe, CNC lathe; Specifications; Basic parts and their functions;	
4		4th week	25,26,28		Operations and tools – Turning, Knurling, facing, Boring, drilling, threading, step turning, taper turning.	1st Assignment
5	September	1st week	1,2,4	Unit II: Foundry Practice:	Pattern Making ,Types of Pattern, Pattern Materials, Pattern Allowances	
6		2nd week	8,9,11,15		Introduction to Core ,Moulding: Introduction to Moulding, Types of Moulding Sand and their properties, Melting and pouring,	class test 1
7		3rd week	16,18,22		Defect in castings. Metal forming processes: Die stamping, Metal Drawing, Spinning, Rolling, Extruding, Forging, and Tube Drawing.	
8		4th week	23,25,29,30	Unit III: Modern Machining Processes: Processes, Procedures, Advantages, Limitations and Applications of	Electro discharge machining, Electro chemical Machining, USM,	
9	October	1st week	6,6,9		AJM and LBM.	
10		2nd week	13,14	Unit-IV: Welding:	Classification; Gas welding techniques; Types of welding flames; Arc Welding – Principle, Equipment, Applications; Shielded metal arc welding; Submerged arc welding;	PTM
11		3rd week	21,23		TIG / MIG welding; Resistance welding - Spot welding, Seam welding, Projection welding;	class test 2
12		4th week	27,27		Welding defects; Brazing and soldering: Types, Principles, Applications. Milling: Introduction; Types of milling machines: plain, Universal, vertical; constructional details – specifications;	
13		5th week	28,30		Milling operations: simple, compound and differential indexing; Milling cutters – types; Nomenclature of teeth; Teeth materials; Tool signature of	2nd assignment
14	November	1st week	10,11,13	Unit V: Part Programming: NC part programming – methods – manual programming –	conversational programming – APT programming - Format: sequential and word address formats - sequence number – coordinate system – types of motion control: point-to-point, paraxial and contouring – Datum points: machine zero, work zero, tool zero NC dimensioning – reference points –	
15		2nd week		House Test		
16		3rd week	17,18,20	Unit V: Part Programming: NC part programming – methods – manual programming –	tool material – tool inserts - tool offsets and compensation - NC dimensioning – preparatory functions and G codes, miscellaneous functions and M codes –	
17		4th week	24,24,25		Interpolation: linear interpolation and circular interpolation - CNC program procedure.	

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Govt. Polytechnic Talwar
Distt. Kangra H.P. 176096
Lesson Plan
(Labs/Workshop)

Name of Teacher:-Gaurav Puwari	Designation:-Lecturer	Group:- G 1
Name of Lab/Workshop:-Basics of thermodynamics hydraulics and pneumatics Laboratory	Class/Branch:- 3rd sem/Automobile Engg.	

Sr. No.	Description of Practical job	Date	Remarks
1	To find flash point and fire point of given fuel.	2/8,	
2	To find viscosity of given fuel.	23/8,	
3	To study air compressor.	30/8,	
4	To analyze exhaust gases by exhaust gas analyzer.	6/9,	
5	To analyze exhaust gas for diesel engine through smoke meter.	20/9,	
6	To conduct Morse test of multi-cylinder petrol engines.	27/9,	
7	To prepare heat balance sheet of an IC engine.	4/10, 25/10	
8	Identification of components in air conditioning system.	1/11,	
9	To develop hydraulic circuit using different components.	15/11,22/11	

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Govt. Polytechnic Talwar
Distt. Kangra H.P. 176096
Lesson Plan
(Labs/Workshop)

Name of Teacher:-Gaurav Puwari	Designation:-Lecturer	
Name of Lab/Workshop:-Basics of thermodynamics hydraulics and pneumatics Laboratory	Class/Branch:- 3rd sem/Automobile Engg.	Group:- G 2

Sr. No.	Description of Practical job	Date	Remarks
1	To find flash point and fire point of given fuel.	7/8,	
2	To find viscosity of given fuel.	14/8,	
3	To study air compressor.	21/8,28/8	
4	To analyze exhaust gases by exhaust gas analyzer.	4/9,	
5	To analyze exhaust gas for diesel engine through smoke meter.	11/9,	
6	To conduct Morse test of multi-cylinder petrol engines.	18/9,	
7	To prepare heat balance sheet of an IC engine.	25/9,	
8	Identification of components in air conditioning system.	9/10,23/10	
9	To develop hydraulic circuit using different components.	30/10, 13/11,20/11	

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Govt. Polytechnic Talwar
Distt. Kangra H.P. 176096
Lesson Plan
(Labs/Workshop)

Name of Teacher:-Rakesh Kumar	Designation:-WSI	
Name of Lab/Workshop:-Mechanical Workshop (Welding)	Class/Branch:- 3rd sem/Automobile Engg.	Group:- G 1

Sr. No.	Description of Practical job	Date	Remarks
1	One exercise on lap and butt joint each with arc welding.	1/8, 8/8	
2	One exercise of vertical and overhead arc welding.	22/8, 29/8	
3	One exercise of welding and cutting.	5/9, 12/9	
4	One exercise of spot welding.	19/9, 26/9	
5	One exercise of TIG welding.	3/10, 10/10	
6	One utility article.	24/10, 31/10 , 14/11, 21/11	

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Govt. Polytechnic Talwar
Distt. Kangra H.P. 176096
Lesson Plan
(Labs/Workshop)

Name of Teacher:-Rakesh Kumar	Designation:-WSI	
Name of Lab/Workshop:-Mechanical Workshop (Welding)	Class/Branch:- 3rd sem/Automobile Engg.	Group:- G 2

Sr. No.	Description of Practical job	Date	Remarks
1	One exercise on lap and butt joint each with arc welding.	6/8, 13/8	
2	One exercise of vertical and overhead arc welding.	20/8, 27/8	
3	One exercise of welding and cutting.	3/9, 10/9	
4	One exercise of spot welding.	17/9,24/9	
5	One exercise of TIG welding.	1/10, 8/10	
6	One utility article.	15/10, 29/10, 12/11, 19/11, 26/11	

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Govt. Polytechnic Talwar
Distt. Kangra H.P. 176096
Lesson Plan
(Labs/Workshop)

Name of Teacher:-Rishu Dhiman	Designation:-Lecturer	Group:- G 1
Name of Lab/Workshop:-Automobile Workshop Practice -I	Class/Branch:- 3rd sem/Automobile Engg.	

Sr. No.	Description of Practical job	Date	Remarks
1	Identification and sketching of special tools and gauges such as cylinder dial gauge, inside & outside micrometer, telescopic gauge, compression gauge, Vernier caliper, height gauge of automobile workshop and practice to use them.	6/8,7/8	
2	Identify and servicing of the components of single plate clutch and Multiplate clutch, removal of worn out parts, adjustment of clutch pedal free play and release lever adjustment	13/8,14/8	
3	Servicing and overhauling of gear boxes: sliding mesh, constant mesh and synchromesh gear box.	20/8	
4	Servicing and overhauling of rear axle, differential units and adjustment of backlash.	21/8	
5	Servicing and Replacement of brakes - mechanical, hydraulic brakes and power brakes adjustments - bleeding of brakes.	27/8,28,8	
6	Overhauling of wheels, tyres and suspension system of car/jeep.	3/9	
7	Identification of various denting and painting tools	4/9	
8	Cleaning, greasing, checking as per maintenance schedule, washing, wiping and polishing of jeep/car and two wheeler.	10/9,11/9	
9	Removing dents on body and minor body repairs - body trimming and painting. Dismantling and assembly of water pump	17/9	
10	Servicing of Lubrication system: Flushing, crank case cleaning and replacing oil, filter element.	18/9	
11	Servicing of fuel system: petrol feed system, cleaning and flushing fuel tank.	24/9, 25/9	
12	Removal and fitting of wheels and tyres of a two wheelers and repairing of punctures and rotation of tyres pressure, use of gauges.	1/10	
13	Job on body paneling using spot welding/riveting.	9/10	
14	Inside and outside inspection/checking of vehicle, checking of engine oil, horn, starter, cooling water before starting of engine.	10/10	
15	Identification dismantling and assembling of AC fuel pump.	15/10, 23/10	
16	Soldering of defective radiator and brazing of a fuel tank	29/10, 30/10	
17	Flushing out water jackets, cleaning of radiator and refitting in vehicle, adjustment of fan belt tension by self-adjusting and automatic adjusting.	12/11, 13/11, 19/11, 20/11, 26/11	

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Govt. Polytechnic Talwar
Distt. Kangra H.P. 176096
Lesson Plan
(Labs/Workshop)

Name of Teacher:-Rishu Dhiman	Designation:-Lecturer	
Name of Lab/Workshop:-Automobile Workshop Practice -I	Class/Branch:- 3rd sem/Automobile Engg.	Group:- G 2

Sr. No.	Description of Practical job	Date	Remarks
1	Identification and sketching of special tools and gauges such as cylinder dial gauge, inside & outside micrometer, telescopic gauge, compression gauge, Vernier caliper, height gauge of automobile workshop and practice to use them.	5/8, 6/8	
2	Identify and servicing of the components of single plate clutch and Multiplate clutch, removal of worn out parts, adjustment of clutch pedal free play and release lever adjustment	12/8,13/8	
3	Servicing and overhauling of gear boxes: sliding mesh, constant mesh and synchromesh gear box.	19/8, 20/8	
4	Servicing and overhauling of rear axle, differential units and adjustment of backlash.	26/8, 27/8	
5	Servicing and Replacement of brakes - mechanical, hydraulic brakes and power brakes adjustments - bleeding of brakes.	2/9,3/9	
6	Overhauling of wheels, tyres and suspension system of car/jeep.	9/9, 10/9	
7	Identification of various denting and painting tools	16/9, 17/9	
8	Cleaning, greasing, checking as per maintenance schedule, washing, wiping and polishing of jeep/car and two wheeler.	23/9,24/9	
9	Removing dents on body and minor body repairs - body trimming and painting. Dismantling and assembly of water pump	30/9	
10	Servicing of Lubrication system: Flushing, crank case cleaning and replacing oil, filter element.	1/10, 8/10	
11	Servicing of fuel system: petrol feed system, cleaning and flushing fuel tank.	14/10	
12	Removal and fitting of wheels and tyres of a two wheelers and repairing of punctures and rotation of tyres pressure, use of gauges.	15/10, 21/10	
13	Job on body paneling using spot welding/riveting.	28/10,29/10	
14	Inside and outside inspection/checking of vehicle, checking of engine oil, horn, starter, cooling water before starting of engine.	11/11,12/11	
15	Identification dismantling and assembling of AC fuel pump.	18/11,19/11	
16	Soldering of defective radiator and brazing of a fuel tank	25/11	
17	Flushing out water jackets, cleaning of radiator and refitting in vehicle, adjustment of fan belt tension by self-adjusting and automatic adjusting.	26/11	

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Govt. Polytechnic Talwar
Distt. Kangra H.P. 176096
Lesson Plan
(Labs/Workshop)

Name of Teacher:-Rishu Dhiman	Designation:-Lecturer	
Name of Lab/Workshop:-Introduction to computer aided drafting	Class/Branch:- 3rd sem/Automobile Engg.	Group:- G 2

Sr. No.	Description of Practical job	Date	Remarks
1	Introduction to CAD	5/8,6/8,12/8	
2	More Learning for Productivity of Drawing	13/8,19/8,20/8	
3	Advanced Cad Features	26/8,27/8	
4	Advanced 3D Features	2/9,3/9,9/9	
5	Drawing of Following Automobile components: • Four Stroke Petrol Engine Piston • Diesel Engine Piston • Connecting rod • Fuel injector • Crank shaft -4 cylinder Engine • Connecting rod	10/9, 16/9, 17/9, 23/9, 24/9, 30/9,1/10 8/10,14/10, 15/10,21/10, 28/10, 29/10, 11/11, 12/11, 18/11, 19/11, 25/11, 26/11	

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Govt. Polytechnic Talwar
Distt. Kangra H.P. 176096
Lesson Plan
(Labs/Workshop)

Name of Teacher:-Jitender Kumar	Designation:-Workshop Supdt (Auto)	
Name of Lab/Workshop:-Introduction to computer aided drafting	Class/Branch:- 3rd sem/Automobile Engg.	Group:- G 1

Sr. No.	Description of Practical job	Date	Remarks
1	Introduction to CAD	1/8,2/8	
2	More Learning for Productivity of Drawing	8/8,22/8	
3	Advanced Cad Features	23/8,29/8	
4	Advanced 3D Features	30/8,5/9,6/9	
5	Drawing of Following Automobile components: • Four Stroke Petrol Engine Piston • Diesel Engine Piston • Connecting rod • Fuel injector • Crank shaft -4 cylinder Engine • Connecting rod	12/9,19/9,20/9, 26/9, 27/9, 3/10, 4/10, 10,10, 24/10, 25/10, 21/10, 1/11, 14/11,15/11, 21/11, 22/11	

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