Langus at Sunderflag Notice Mana

PLANNED SYLLABUS COVERAGE (Theory)

Govt. Department: Applied Sciences Subject : Applied Physics-I Polytechnic Course - Diploma Duration - 14 weeks Lahaul Spiti SYLLABUS Total Periods - 42+14 (DCS)=56 Theory - 42+14 (DCS)=56 hours Instruction Additional Study S.N. Period Nos Topic Details Remarks references Recommended Text Book of Engineering 1 to 9 1. Physical world. Units Physics for Physics by PV (L-7 DCS-2) and Measurements Class XI & Naik, Pearson Physical quantities: fundamental and derived, Units XII (Part-I. Education Pvt. and systems of units (FPS, CGS and SI units), Part-II) Ltd, New Delhi Dimensions and dimensional formulae of physical NCERT quantities, Delhi. Principle of homogeneity of dimensions, Dimensional Applied equations and their applications, conversion from one Physics-I by system of units to other, Eagle Checking of dimensional equations Prakashan Derivation of simple equations Limitations of dimensional analysis. Errors in measurements (systematic and random), absolute error, relative error, Error estimation and significant figures 10 to 19 2 2. Force and Motion (L-7 DCS-3) Scalar and Vector quantities - examples, representation of vector, types of vectors. Addition and Subtraction of Vectors, Triangle and Parallelogram law (Statement only) Scalar and Vector Product, Resolution of a Vector and its application to inclined plane (Rectangular components) and lawn roller. Force, Momentum, Statement and derivation of conservation of linear momentum Applications such as recoil of gun &rockets, Impulse and its applications Circular motion, definition of angular displacement, angular velocity, angular acceleration, frequency, time period. Relation between linear and angular velocity, Relation between linear acceleration and angular acceleration (related numerical), Centripetal and Centrifugal forces with live examples Expression and applications such as banking of roads and bending of cyclist 3. Work, Power and 20 to 28 3 (L-7 DCS-2) Energy Concept and units, examples of zero work, positive work and negative work Friction: concept, types Laws of limiting friction, coefficient of friction, methods for reducing friction and its engineering applications Work done in moving an object on horizontal and inclined plane for rough and plane surfaces and related applications. Energy and its units, kinetic energy, gravitational potential energy with examples and derivations, Mechanical energy, conservation of mechanical energy for freely falling bodies Transformation of energy (examples). Power and its Power and work relationship, calculation of power (numerical problems)

1	29 to 37 (L-7 DCS-	4. Rotational Motion			
			Translational and rotational motions with examples. Definition of torque and angular momentum and their examples. Conservation of angular momentum (quantitative) and its applications. Moment of inertia and its physical significance, radius of gyration for rigid body Theorems of parallel and perpendicular axes (statements only). Moment of inertia of rod, disc, ring and sphere (hollow and solid): (Formulae only) Numericals on rotational motion.		
	38 to 47 (L-7 DCS-	5. Properties of Matter	Elasticity: Definition of stress and strain, types		4
-			Different types of modulii of elasticity, Hooke's law, significance of stress-strain curve Pressure: definition, units, atmospheric pressure, gauge pressure, absolute pressure, Fortin's Barometer and its applications. Surface tension: concept, units, cohesive and adhesive forces, angle of contact, Ascent Formula (No derivation) Applications of surface tension, effect of temperature and impurity on surface tension.		
	48 to 56 (L-7 DCS		Concept of heat and temperature, Modes of heat transfer (conduction, convection and radiation with examples) Scales of temperature and their relationship, Types of Thermometer Mercury thermometer, bimetallic thermometer Platinum resistance thermometer, Pyrometer Expansion of solids, liquids and gases, Co-efficient of thermal conductivity Coefficient of linear, surface and cubical expansions and relation amongst them		7

Teacher Sig.

APPROVED	SIGN HOD
DATE: 16 07 2025	R

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Teacher: Manisha Pathania Sr.Lecturer(AS&H)	( Milliance		Revision & Viva	and convert it into different scales,	To measure room temperature and temperature of a hot bath using mercury thermometer		To find moment of Inertia of a flywheel.		Revision & Viva		To verify law of conservation of mechanical energy (PE to KE)		To determine force constant of a spring using Hook's Law.		Revision & Viva		to verify triangle and parallelogram law of forces.	To confidence of the confidenc	spherometer.				gauge.	2 To determine diameter of a wire a solid ball and this	caliper and find volume of each object.	To measure length, radius of a given cylinder atest tube and a backer inches		Sr.No. Description of Practical Particular Control 2023 - 20th Nov. 2025 )	
		20th Nov	Week - 12	6th Nov.	Week - 11	30th Oct	Week - 10	16th Oct	Week -9	9th Oct.	Week - 8	25th Sept	Week - 7	18th Sept	Week - 6	11th Sept	Week - 5	4th Sept	Week - 4	28th Aug	Week - 3	21st Aug	Week - 2	14th Aug	Week - 1	Group-1	Plann	Nov. 2025 ) Sem:- Ist	
(AS&H)	(A)	18th Nov	Week - 12	4th Nov	Week - 11	28th Oct	Week - 10	21st Oct	Week -9	14th Oct	Week - 8	23rd Sept	Week - 7	16th Sept	Week - 6	9th Sept	Week - 5	2nd Sept	Week - 4	26th Aug	Week - 3	19th Aug	Week - 2	12th Aug	Week - 1	Group-II	Planned Dates		
																									-		Remarks	-	
										in the second						1											1811/	No.	. /

Polytechnic Udaipur

Compus at Sund magar Dist. Mandi

GOVT POLYTECHNIC LAHAUL & SPITI at Udalpur ,camp at Sundernagar,Distt. Mandi(HP) LESSON PLAN (Applied Physics I Practicals)

nus at Sund rnagar Distt. Mandi

-ul & Spiti (H.P.)

Govt. Polytechnic Lahaul &Spiti at Udaipur, Camp at Sundernagar , Distt Mandi

41 49 40 47 46 45 2 43 42 6 39 (S) 37 55 41 36 Ľ w 32 30 28 25 8 29 27 26 0 17th 16th 151 149 ## 1315 171 100 416 2nd week Nov 22-11-2025 21-11-2025 19-11-2025 01-11-2025 16-10-2025 to 26-11-2025 25-11-2025 18-11-2025 15-11-2025 14-11-2025 07-11-2025 04-11-2025 31-10-2025 29-10-2025 28-10-2025 25-10-2025 24-10-2025 15-10-2025 08-10-2025 04-10-2025 14-10-2025 03-10-2025 01-10-2025 30-09-2025 27-09-2025 26-09-2025 18/10/25 Lubrication Polymer Water Fuels revision revision Vulcanization of rubber and properties of vulcanised rubber PS,PTFE, nylon-6,6 and Bakelite Monomer, homo and co polymers, degree of polymerization revision Chemical properties (coke number, total acid number, saponification value) of lubricants Physical properties (viscosity and viscosity index, oiliness, flash and fire point, cloud and pour point Thermoplastics and thermosetting plastics (using Polythene, PVC) HOUSE TESTS Lubrication mechanism: hydrodynamic and boundary lubrication Function and characteristic properties of good lubricant classification with examples Calorific values and applications of LPG, CNG, water gas, producer gas and biogas. Petrol and diesel - fuel rating (octane and cetane numbers), Chemical composition calorific values (HCV and LCV), calculation of HCV and LCV using Dulong's formula Definition of fuel and combustion of fuel, classification of fuels, Characteristics of good fuel standard specification of drinking water Properties of water used for human consumption for drinking and cooking purposes from any water sources and indian CLASS TEST 2 ii). Municipal water treatment (in brief only) - sedimentation, coagulation, filtration, sterilization Diwali Break Problems caused by the use of hard water in boiler (scale and sludge, foaming and priming, corrosion. Extraction of - Iron from haematite one using blast furnace along with reactions water softening techniques: i) reolite process units of hardness(mg/L and ppm), simple numerical on water hardness Classification of soft and hard water based on soap test, saits causing water hardness. Cause of poor lathering of soap in Alloys – definition, purposes of alloying, ferrous alloys (invar steet) and non-ferrous (Simple Brass & Bronze

Signature of the teacher

(Renen James)

LESSON PLAN

Govt. Polytechnic Lahaul &Spiti at Udaipur,Camp at Sundernagar , Distt Mandi Name of the teacher: Alpana Chaudhary

Branch:Civil Engg. Subject: Applied Chemistry Lab

Session: August-December2025

1		20301011	atom Anguar December 4047	DE1707130		
S.No.	Name of experiment	Proposed date of experiment	Actual Date	Proposed date of experiment	Actual Date	Remarks
		G-A		G-B		
1	Introduction to chemistry lab chemicals& equipments	12-08-2025		11-08-2025		
2	Preparation of standard solution of oxalic acid.	19-08-2025		18-08-2025		
ω	To determine strength of solution by titrating against standard oxalic acid solution using phenolphthalein as indicator.	02-09-2025		01-09-2025		
4	Experimental verification of Faraday's first law of electrolysis using copper sulfate solution and copper electrode.	09-09-2025		08-09-2025		
5	lodometric estimation of Copper in the given Copper ore using standard Hypo solution.	23-09-2025		22-09-2025		
6	OR To estimate total alkalinity of given water sample by titrating it against standard Sulphuric acid.	30-09-2025		29-09-2025		
7	To estimate moisture in given coal sample gravimetrically.	14-10-2025		13-10-2025		
00	To estimate ash in given coal sample gravimetrically.	04-11-2025		03-11-2025		
9	To determine viscosity of given lubricating oil by Redwood viscometer.	18-11-2025		17-11-2025		
10	Revision/viva	26/8/25,28/10/2 5,25/11/25		25/8/25,15/9/25, 6/10/25,27/10/25 ,24/11/25		

Signature of the teacher

ad & Spiti (H.P.)

Tous at Sund magar Distt. Mandi

## Govt. Polytechnic L&S at Udaipur Camp.at Sundernagar

Campus at Sundern sear then, Manda

Subject: Sports & Yoga (HS103) Name of the Teacher : Manisha Pathania

S.No.	Month	Week	Name of Chapter	Content to be taught
ы	August	1st	Introduction to Physical Education	Meaning & Def., Aims & Objectives of Physical Education & Changing trends in Phy. Edu.
2		2nd	Olympic Movement	Ancient & Modern Olympics, Olympic Symbols,ideals,objectives & Values,Awards & Honours in Sports in India
w	7 139	3rd	Physical Fitness, Wellness & Lifestyle	Meaning & Imp. Of Physical Fitness & Wellness, components of physical fitness, preventing health threats through lifestyle changes, Concepts of Positive Lifestyle
4	September	4th	Fundamentals of Anatomy , Physiology and Kinesiology,Biomecha nics & Sports	Define Anatomy , Physiology & Its Importance and Meaning & Importance of Kinesiology & Biomechanics in Physical Edu. & Sports
U		5th	Postures & Yoga	Meaning, Concept & Advantages of Postures, Meaning & Imp. of yoga, Introduction - Asanas, Pranayama, Meditation & Yogic Kriyas
6		6th	Yoga & Lifestyle	Asanas as preventive measures - For Hypertension, Obesity, Back Pain , Diabetes & Asthema.
7		7th	Training & Planning in Sports	Meaning of Training , Meaning and Objectives of Planning . Warming up & limbering down. Skill , Techniqes & Style

	of the groups of decreases and according	cturer (AS&H)	Manisha Pathania ,Sr. Lecturer (AS&H)	Manisha
			Teacher's Signature:	Teacher'
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		0.10.0081		
History of the Game / Sport.Latest General Rules of the Game / Sport.	Sports / Games	15th	) (A. )	t
Meaning & Concept of Doping. Prohibited Substances & Methods. Side Effects of Prohibited Substances.	Doping	15th & 14th	November	*
First Aid, Sports Injuries & Management of Injuries.	Sports Medicine	12th		5 5
Sports Performance. Understanding Stress & Coping Strategies.	Annual Contract	1		5
Emotions: Concept,Type & Controlling of Emotions.Anxiety & Fear and its effects on	Psychology & Sports	10th & 11th		ė
Development, Adolescent Probelms & Their Management, Psychological benefits of exercise.		, 15		
Def. & Imp. of Psychology	Psychology & Sports	8th & 9th	October,	00

Lahaul & Spiti (H.P.)

Campus at Sundernagar Distt. Mandi

Dlary No. 2335

Date 0110812005

Govt. Polytechnic L&S at Udaipur Camp at Sundernagar, Distt. Mandi (H.P)

Planning of Practical Contents for the Period 11Th August 2025 to 25th November 2025

Departments: - Applied Sciences and Humanities

8hrs/week

Course: - Diploma (Civil Engg.)

Subject: Introduction to Information Technology System Lab (ES-108)

Credit: -2

Date	Content Planned	Group	Week	Remarks
11/08/2025	To identify various hardware Components on Computer System.	205_1	1	
11/08/2025	To identify various hardware Components on Computer System.	2	- 1	8
12/08/2025	Revision 1st Practical.	2	1	
12/08/2025	Revision 1st Practical.	1	1	
18/08/2025	To assemble hardware components of Computer System.	1	2	-
18/08/2025	2. To assemble hardware components of Computer System.	2	2	iti
19/08/2025	Revision 2nd Practical.	2	2	R. L. P. S.
19/08/2025	Revision 2nd Practical.	1	2	
25/08/2025	3. To install Window OS on Computer System.	1	3	21
25/08/2025	3. To install Window OS on Computer System.	2	3	n.
26/08/2025	Revision 3rd Practical.	2	3	93 -
26/08/2025	Revision 3rd Practical.	1	3	
01/09/2025	4. To study various features offered on the desktop, creating new folder and new file on the desktop.	1 -21	4	
01/09/2025	4. To study various features offered on the desktop, creating new folder and new file on the desktop.	2	4	13) " 131
02/09/2025	Revision 4th Practical.	2	4	1 34
02/09/2025	Revision 4th Practical.	1	4	
08/09/2025	5.To work on different web browser (Google Chrome, Internet Explorer) setting up default Homepage on browser and study various	1	5 Japane Ar	W -
	setting available.	1,214,9327	TO THE P	CO - Property
08/09/2025	5. To work on different web browser (Google Chrome, Internet Explorer) setting up default homepage on browser and study various setting available.	2	5	11 ' 5 X
09/09/2025	Revision 5th Practical.	2	5	
09/09/2025	Revision 5th Practical.	1	5 -	
15/09/2025	6. To open search engine (Google and Yahoo)	1 1	6	

	search different information using the search engine. Creating an email account.		L TEREST	
15/09/2025	6: To open seatch engine (Google and Yahoo) search different information using the search engine. Creating an email account.	2	6	
16/09/2025	Revision 6th Practical.	2	6	
16/09/2025	Revision 6th Practical.	1 4	6	
22/09/2025	7. Visit Various e-governance/digital India portals and understanding service offered.	1. 1.	. 7	
22/09/2025	7. Visit Various e-governance/digital India portals and understanding service offered.	2	7	
23/09/2025	Revision 7th Practical.	2	7	-
23/09/2025	Revision 7th Practical.	1	7	-
29/09/2025	8. Opening, creating and saving a document,		100	2
29/09/2025	file(s), protecting files, giving password protection for a file, setting margins, tab setting, ruler, indenting, entering text, cut, copy, paste using tool-bars.	1	8	
30/09/2025	8. Opening, creating and saving a document, locating files, copying contents in some different file(s), protecting files, giving password protection for a file, setting margins, tab setting, ruler, indenting, entering text, cut, copy, paste using tool-bars.	2	8	
30/09/2025	Revision 8th Practical.	2	8	
	Revision 8th Practical.	1.	8	
06/10/2025	9. Formatting a document, Creating and editing tables, mail-merge	1	9	
06/10/2025	9. Formatting a document, Creating and editing tables, mail-merge.	2	9	
13/10/2025	Revision 9th Practical.	1	10	
13/10/2025	Revision 9th Practical.	2	10	
14/10/2025	10. Working on MS – EXCEL- Creating a Worksheet in Excel. Copy, Move andMerge the cells and Use various Formatting features.	2	10	
14/10/2025	10. Working on MS – EXCEL- Creating a Worksheet in Excel. Copy, Move and Merge the cells and Use various Formatting features.	1	10	
21/10/2025	Revision 10th Practical.	2	11	
21/10/2025	Revision 10th Practical.	1	11	
27/10/2025	11. Using formula and functions prepare		- 10	
	worksheet for storing subject marks often students and perform the following:  Calculate the student wise total and average.  Calculate the subject wise total and average.	te vout nignati me tan	12	in a
	<ul> <li>Calculate the overall percentage and also individual percentage of the student.</li> </ul>	4		

Cı	reate a chart for the above.		17.100	
st	<ol> <li>Using formula and functions prepare vorksheet for storing subject marks often tudents and perform the following:         <ul> <li>Calculate the student wise total and average.</li> <li>Calculate the subject wise total and average.</li> <li>Calculate the overall percentage and also individual percentage of the student.</li> </ul> </li> <li>Create a chart for the above.</li> </ol>	2	12	
	Revision 11th Practical.	2	12	
and the second s	Revision 11th Practical.	1	12	
03/11/2025	Revision as Per doubts of Students	1	13	
03/11/2025	Revision as Per doubts of Students	2	13	
04/11/2025	Revision as Per doubts of Students	2	13	
04/11/2025	Revision as Per doubts of Students	1	13	
10/11/2025	Revision as Per doubts of Students	1	14	
10/11/2025	Revision as Per doubts of Students	2	14	
11/11/2025	Revision as Per doubts of Students	2	14	
11/11/2025	Revision as Per doubts of Students	1	14	
17/11/2025	Revision as Per doubts of Students	1	15	
17/11/2025	Revision as Per doubts of Students	2	15	
18/11/2025	Revision as Per doubts of Students	2	15	
18/11/2025	Revision as Per doubts of Students	1	15	<del>                                     </del>
24/11/2025	Revision as Per doubts of Students	1	16	
24/11/2025	Revision as Per doubts of Students		1100	-
25/11/2025	Revision as Per doubts of Students			-
25/11/2025	Revision as Per doubts of Students	_		
25/11/2025	Revision as Per Revision as Per	doubts of Students doubts of Students	doubts of Students 2 doubts of Students 2	doubts of Students 2 16 doubts of Students 2 16

Sh. Rajat Sharma (Computer Assistant)

Sh. Raman Jamwal (H.O.D AS&H.)

Lahaul & Spiti (H.P.) Campus at Sundernagar Distt. Mandi

Govt. Polytechnic Lahaul & Spiti at Udaipur Camp at Sunder Nagar Distt. Mandi (H.P.) 1750 18 atc

Lesson Plan:

Aug.2025 to Nov.2025

Name of the Teacher:

Suniti Rani

Subject:

Mathematics 4

PPL

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b · Ci	vil Engine	ering	Semester:	First		
17.4-150.0	Date	Week	Unit	Name of Chapter	Content to be taught	Remark
	8,11,12,1	1st	Trigonometry	Angles and its Measurement	Measurement of angles in three system & conversions(Ex-1.1)	
SUST	18,19,20,	2nd	Do	T-Ratio of Allied Angles, Addition and Subtraction Formule	Exercise 2.1 , Exercise-3.1	
AU	25,26,27,	3rd	Do	Transformation of Products into sum or difference and vice versa	Exercise-3.1 & Exercise -4.1	
	1,2,3,4,5	4th	Do	T-Ratio of multiple & Sub-multiple angles, Graphs of Trigonometrical	Exercise-5.1 & Graphs of sinx & cosx	
BER	8,9,10,11	5th	Differential	Functions and Limits & Revision of some	Exercise-1.1 , Exercise-1.2 CLASS TEST-1	
EPTEM	15,16,17,	6th	Differential	Functions and Limits	Exercise-1.2 & Exercise-1.3	
8	22,23,24,	7th	Do	Differentiation	Diff. of a Function by 1st Principle(sinx & cosx ), Imp. Formulae, Exercise-2.2	
		8th	Do	Diff. of sum, product & quotients of functions and Diff. of fun.of fun.	Exercise-2.2	
OBER	6,8,9,	9th	Do	Inverse Trig. Function	Exercise 2.3	
3 OCT	13,14,15	10th	Do	Logarithmic Differentiation & Revision	Exercise-2.6 , (CLASS TEST -2)	
EMBER		11th	Algebra	Complex Number	Complex Numbers, Conjugate of Complex No.( Exercise-1.1)	
SEPT	27,28,29,	12th	Do	Do	Modulus of Comp.No. & Amplitude of Comp. No., Polar Form, Exercise-1.2	
			Do	Discussion on Doubts	HOUSE TEST	
æ	10,11,12,		Do	Partial Fractions , Permutations & Combinations	Exercise-2.1, Exercise-2.2 & Exercise- 3.1, Exercise-3.2	
VEMBE	13,14,	100.592	Do	, Binomial Theorem	Theorem , Gen. Term , Middle Term	.5
_	20,21	100		Binomial Theorem	Constant Term & find the Coefficients ( Exercise 4.2)	
	NOVEMBER SEPTEMBER AUGUST SEPTEMBER AUGUST SEPTEMBER AUGUST SEPTEMBER AUGUST SEPTEMBER AUGUST SEPTEMBER SE	Month Date    8,11,12,1	### BANDON BANDO	Month   Date   Week   Unit	Month   Date   Week   Unit   Name of Chapter	Month   Date   Week   Unit   Name of Chapter   Content to be taught

Teacher's Signature Suniti Rani (Lect. Mathematics)

Applied Science & Humanity

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Draw free hand sketches conventional representation of machine elements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements of such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements such	ctober  4th 23,24  5th 30,31 Computer aided drafting Interface  2nd 6,7  3rd 13,14 Computer aided drafting 20,21
stober 3rd 16,17 engineering elements engineering elements of elements of engineering elements of elements of elements of elements of elements element	sth 23,24  Sth 30,31 Computer aided drafting Interface  2nd 6,7  2nd 13,14 Computer aided drafting Interface  4th 20,21
3rd 16,17 engineering elements  4th 23,24  Computer aided drafting Interface  6,7  6,7  Computer aided drafting	3rd 16,17 engineering elements  4th 23,24  Computer aided drafting Interface  6,7  6,7  13,14 Computer aided drafting
23,24  Computer aided drafting Interface  Computer aided drafting	23,24  Computer aided drafting Interface  Computer aided drafting
ळ ४०	ज्य प्र
Draw free hand sketches/ conventional representation of machine elements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements of washers and sketches/ conventional representation of machine elements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements of computer Alded Drafting: concept, Hardware and various CAD software available. System requirements and Understanding the interface, Components of AutoCAD software window: Title bar, standard tool bar, menu bar, object properties tool bar, draw tool bar, modify tool bar, cursor cross hair. Command window, sta- tus bar, drawing file, Creating itemplates, Quit, Setting up new drawing: Units, Limits, Grid, Snap. Undoing area, UCS icon, file features: New file, Saving the file, opening an existing drawing file, Creating templates, Quit, Setting up new drawing: Units, Limits, Grid, Snap. Undoing and redoing Problem based Learning: Given the orthographic views of at least three objects with few missing lines, the student will try to imagine the corresponding objects, complete the views and draw these views in sketch book.  Draw basic entities like Line, Circle, Arc, Polygon, Ellipse, Rectangle, Multiline, Polyline.  Method of Specifying points: Absolute coordinates, Relative Cartesian and Polar coordinates. Modify and edit commands like trim, extend, delete, copy, offset, array, block, alviliant total.  Jimensioning: Linear, Horizontal Vertical, Aligned, Rotated, Baseline, Continuous, Diameter, ladius, Angular Dimensions. Dim scale variable. Editing dimensions. Text: Single line Text,	Draw free hand sketches/ conventional representation of machine elements in skett such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangement such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangement such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangement such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangement computer Alded Drafting: concept, Hardware and various CAD software available. System requirements and Understanding the interface, Components of AutoCAD so window: Title bar, standard tool bar, menu bar, object properties tool bar, draw to modify tool bar, cursor cross hair. Command window, sta- tus bar, drawing area, U icon, File features: New file, Saving the file, opening an existing drawing file, Creatitemplates, Quit, Settling up new drawing: Units, Limits, Grid, Snap. Undoing and reproblem based Learning: Given the orthographic views of at least three objects with missing lines, the student will try to imagine the corresponding objects, complete and draw these views in sketch book.  Draw basic entities like Line, Circle, Arc, Polygon, Ellipse, Rectangle, Multiline, Polygon, Stalius, Angular Dimensions. Dim scale variable. Editing dimensions. Text: Single like Liter.
	tch book ts sold bar, JCS Ith few the views lyline.

Signature of Teacher (Er. Sameer Sharma)

Signature of H.O.D (AS&H)