

Month	Week	Date	Name of the Chapter	Contents to be taught	HOD Signature	Remarks
Aug-23	1 <sup>st</sup>	21st Aug.	Units & Dimensions	Physical quantity, Units: fundamental & derived quantities & their units.		
		22nd Aug.	Units & Dimensions	System of units( FPS,CGS andSI units)		
		25th Aug.	Units & Dimensions	Dimensions & dimensional formulae of physical quantities		
		26th Aug.	Units & Dimensions	Principle of homogeneity of dimensions, Numerical on Principle of homogeneity of dimension. <del>Conversion from one system of units to another.</del>		
	2 <sup>nd</sup>	28th Aug.	Units & Dimensions	Checking the correctness of physical relation.		
		29th Aug.	Units & Dimensions	derivation of simple physical relation. Limitation of dimensional analysis.		
Sep-23	1 <sup>st</sup>	1st Sept.	Units & Dimensions	Error in measurement(systematic and random),absolute error,relative error		
		2nd Sept.	Units & Dimensions	error estimation & significant figures,rules ,numericals		
	3 <sup>rd</sup>	4th Sept.	Units & Dimensions	Revision/Problem discussion		
		5th Sept.	Force & Motion	Scalar & Vector quantities, example,representation of vectors,types of vectors.		
		8th Sept.	Force & Motion	Addition and subtraction of vectors,triangle law		
	4 <sup>th</sup>	11th Sept.	Force & Motion	Parallelogram law,scalar and vector product of vectors		
		12th Sept.	Force & Motion	Numerical based on scalar and vector product of vectors, resolution of vectors		
		15th Sept.	Force & Motion	application to inclined plane(Rectangular components)and lawn roller,force,linear momentum.		
		16th Sept.	Force & Motion	statement & derivation of conservation of linear momentum ,its applications such as Recoil of gun & rockets.		
	5 <sup>th</sup>	18th Sept.	Force & Motion	Impulse & its applications,circular motion,angular displacement, angular velocity & angular acceleration,time period,frequency.		
		19th Sept.	Force & Motion	circular motion,definition of angular displacement,angular velocity,angularacceleration,frequency,time period.		
		22nd Sept.	Force & Motion	Relation b/w linear velocity and ang. Velocity,linear acce. And ang. Acce.,numericals		
		23rd Sept.	Force & Motion	centripetal force & centrifugal force with live examples.expression and applications such as banking of roads, bending of cyclist		
	6 <sup>th</sup>	25th Sept.	<b>CLASS TEST 1</b>			
26th Sept.		Work, Power & Energy	Work: concept and its units,examples of zero work,positive work and negative work.			
29th Sept.		Work, Power & Energy	Friction:modern concept,types ,laws of limiting friction,coefficient of friction and engg. Applications,methods of reducing friction			
30th Sept.		Work, Power & Energy	Work done in moving an object on horizontal and inclined plane for rough and plane surfaces with applications			
Oct. 23	7 <sup>th</sup>	3rd Oct.	Work, Power & Energy	Energy and its units,kinetic & gravitational potential energy with examples and their derivation,mechanical energy.		
		6th Oct.	Work, Power & Energy	conservation of mechanical energy for freely falling bodies		
		7th Oct.	Work, Power & Energy	transformation of energy(examples), Power and its units ,power & work relationship,calculation of power in numericals		
	8 <sup>th</sup>	9th Oct.	Work, Power & Energy	Concept of translatory and rotatory motions with examples,defenition of torque and angular momentum.		
		10th Oct.	Rotation motion	Translational & rotational motions with examples,definition of torque and angular momentum and their examples.		
		13th Oct.	Rotation motion	Conservation of angular momentum & its applications,		
	9 <sup>th</sup>	16th Oct.	Rotation motion	Moment of inertia and its physical significance,radius of gyration for rigid body.		
		17th Oct.	Rotation motion	Theorems of parallal and perpendicular axes,moment of inertia of rod,disc,ring and sphere(hollow and solid)formulae only		
		20th Oct.	Rotation motion	Elasticity,definition of stress and strain,Different types of modulus of elasticity,		
		21st Oct.	Properties of Matter	Hooke's Law,significance of stress-strain curve		
	10 <sup>th</sup>	23rd Oct.	<b>CLASS TEST2</b>			
27th Oct.		Properties of Matter	Pressure:definition,its units, Gauge pressure, absolute pressure, atmospheric pressure			
30th Oct.		Properties of Matter	Fortin's barometer and its applications.			
31st Oct.		Properties of Matter	Surface tension:concept & its units ,cohesive & adhesive forces,angle of contact ,			
11 <sup>th</sup>	3rd nov.	Properties of Matter	Ascent formula(No derivatlon), Applications of surface tension.			
	4th nov.	Properties of Matter	effects of temperature and impurity on surface tension			
12 <sup>th</sup>	6th nov.	<b>House Test</b>				
	7th nov.	<b>House Test</b>				

*Manisha Pathania*

Nov.23	10th nov.		
	13th	17th nov. Heat & Thermometry	Concept of heat & temperature, Mode of transfer of heat, conduction, convection radiation with examples.
		18th nov. Heat &	different scale of temperature & their relationship
		20th nov. Heat &	Revision/Problem discussion
		21st nov. Heat & Thermometry	Revision/Problem discussion
14th	24th nov.	Heat & Thermometry	Types of thermometer -mercury thermometer, bimetallic thermometer,
	25th nov.	Heat & Thermometry	platinum resistance thermometer, pyrometer and their uses
	28th nov.	Heat & Thermometry	Expansion of solids, liquids and gases, coefficient of linear, surface and cubical expansions and relation amongst them.
Dec.23	15th	1st Dec. Heat & Thermometry	Concept of co-efficient of thermal conductivity.
		2nd Dec. Heat &	Revision
		4th Dec. Heat &	Revision

*Manisha Pathania*

Subject-Teacher:- Manisha Pathania

*Dr. P. K. Singh*

HOD  
Applied Sciences & Humanities

GOVT POLYTECHNIC LAHAUL & SPITI at Udalpur ,camp at Sundernagar,Distt. Mandi(HP)

LESSON PLAN (Applied Physics I Practicals)

Name of the Teacher -Manisha Pathania

Branch: Civil. Engg. (Aug. 2023 -Dec. 2023 )

Sem:- Ist

Sr.No.	Description of Practicals	Planned Dates		HOD Sign	Remarks
		Group-1	Group-II		
1	To measure length, radius of a given cylinder, a test tube and a beaker using a vernier caliper and find volume of each object.	Week - 1 24th Aug.	Week - 1 23rd Aug.		
2	To determine diameter of a wire, a solid ball and thickness of cardboard using a screw gauge.	Week - 2 31st Aug.	Week - 2 30th Aug.		
3	Revision & Viva	Week - 3 14th Sept.	Week - 3 6th Sept.		
4	To determine radius of curvature of a convex and a concave mirror/surface using a spherometer.	Week - 4 21st Sept.	Week - 4 13th Sept.		
5	To verify triangle and parallelogram law of forces.	Week - 5 28th Sept.	Week - 5 20th Sept.		
6	Revision & Viva	Week - 6 5th Oct.	Week - 6 27th Sept.		
7	To determine force constant of a spring using Hook's Law.	Week - 7 12th Oct.	Week - 7 4th Oct.		
8	To verify law of conservation of mechanical energy (PE to KE)	Week - 8 19th Oct.	Week - 8 11th Oct.		
9	Revision & Viva	Week - 9 26th Oct.	Week - 9 18th Oct.		
10	To find moment of Inertia of a flywheel.	Week - 10 2nd Nov.	Week - 10 25th Oct.		
11	To measure room temperature and temperature of a hot bath using mercury thermometer and convert it into	Week - 11 9th Nov.	Week - 11 8th Nov.		
12	Revision & Viva	Week - 12 23rd Nov.	Week - 12 22nd Nov.		
13	Revision & Viva	Week - 13 30th Nov.	Week - 13 29th Nov.		

Teacher : Manisha Pathania

HOD  
(AS & H)

# GP L&S at Udaipur, camp at S.Nagar

PLANNING OF THEORY CONTENT FOR THE PERIOD 10 AUGUST, 2023 TO 4 TH DECEMBER, 2023

DEPARTMENT : APPLIED SCIENCES AND HUMANITIES

4 Hrs/Week

COURSE : Diploma SUBJECT: APPLIED CHEMISTRY (BS-105) Credit :3

Week	Date	Content Planned	Remarks
1	23-08-2023	1.1 Fundamental particles of atoms : Electron, proton, neutron (Definitions) 1.2 Atomic Structure: Bohr's theory, successes and limitations (expression of energy and radius to be omitted), and Hydrogen spectrum explanation based on Bohr's model of atom.	
	24-08-2023		
	25-08-2023	1.3 Heisenberg uncertainty principle, Quantum numbers	
	26-08-2023	Discussion on doubts.	
2	30-08-2023	orbital concept, Shapes of s, p orbitals, difference between orbit and orbital	
	31-08-2023	1.4 Pauli's exclusion principle, Hund's rule of maximum multiplicity Aufbau rule, electronic configuration (Z=1 to 30).	
	01-09-2023	2.1 Concept of chemical bonding – cause of chemical bonding, types of bonds: ionic bonding (NaCl example)	
	02-09-2023	Discussion on doubts.	
3	06-09-2023	2.2 Lewis concept of covalent bond (H <sub>2</sub> , F <sub>2</sub> , HF) Electronegativity, Difference between sigma and pi bond	
	08-09-2023	2.3 Electron sea model of metallic bond. 2.4 Idea of solute, solvent and solution	
4	13-09-2023	2.5 Methods to express the concentration of solution- molarity (M = mole per liter), molality, mass percentage (Numerical excluded).	
	14-09-2023	3.1 Electronic concept of oxidation, reduction and redox reactions. Definition of terms: electrolytes, non-electrolytes with suitable examples	
	15-09-2023	3.2 Faradays laws of electrolysis and simple numerical problems	
	16-09-2023	Discussion on doubts.	
5	20-09-2023	3.3 Industrial Application of Electrolysis – • Electrometallurgy • Electroplating • Electrolytic refining	
	21-09-2023	3.4 Application of redox reactions in electrochemical cells – • Primary cells – dry cell, • Secondary cell - commercially used lead storage battery.	
	22-09-2023	3.5 Introduction to Corrosion of metals – definition, types of corrosion (electrochemical), H <sub>2</sub> liberation and O <sub>2</sub> absorption mechanism of electrochemical corrosion	
	23-09-2023	Discussion on doubts.	
6	27-09-2023	3.6 Internal corrosion preventive measures – Purification, alloying and heat treatment and External corrosion preventive measures: metal (anodic, cathodic) coatings	
	28-09-2023	Class Test-1	
	29-09-2023	4.1 Natural occurrence of metals – minerals, ores of iron, aluminium and copper, gangue (matrix), flux, slag, metallurgy – brief account of general principles of metallurgy (a) Crushing and grinding (b) Concentration of ore (Levigation, Froth flotation, Magnetic separation)	
	30-09-2023		
	04-10-2023	(c) Extaction (Roasting and calcinations & smelting)	

7	05-10-2023	(d) Refining(Electro refining, zone refining).4.2 Extraction of - iron from haematite ore using blast furnace along with reactions.	
	06-10-2023	4.3 Alloys – definition, purposes of alloying, ferrous alloys(Invar steel)	
	07-10-2023	<b>Discussion on doubts.</b>	
8	11-10-2023	non-ferrous(Simple Brass & Bronze, Nichrome, Duralumin, Magnesium) with suitable examples, properties and applications.	
	12-10-2023	5.1 Classification of soft and hard water based on soap test, salts causing water hardness, units of hardness(mg/L and ppm) and simple numerical on water hardness.	
	13-10-2023	Cause of poor lathering of soap in hard water, 5.2 Problems caused by the use of hard water in boiler (scale and sludge foaming and priming, corrosion.) 5.3 i) water softening	
9	18-10-2023	techniques- zeolite process	
	19-10-2023	ii). Municipal water treatment (in brief only) – sedimentation, coagulation, filtration, sterilization.	
	20-10-2023	5.4 Properties of Water used for human consumption for drinking and cooking purposes from any water sources and Indian standard specification of drinking water.	
	21-10-2023	<b>Discussion on doubts.</b>	
10	25-10-2023	<b>Class Test-II Scheduled as per Academic Calender</b>	
	26-10-2023	6.1 Definition of fuel and combustion of fuel, classification of fuels 6.2 calorific values (HCV and LCV)	
	27-10-2023	calculation of HCV and LCV using Dulong's formula.	
12	01-11-2023	Characteristics of good fuel 6.3 Petrol and diesel - fuel rating (octane and cetane numbers)	
	02-11-2023	6.4 Chemical composition, calorific values and applications of LPG, CNG, water gas, producer gas and biogas.	
	03-11-2023	7.1 Function and characteristic properties of good lubricant, 7.2 classification with examples	
	04-11-2023	<b>Discussion on doubts.</b>	
13		<b>HOUSE TESTS(7-11-2023 to 10-11-2023)</b>	
14	16-11-2023	7.3 Lubrication mechanism – hydrodynamic and boundary lubrication	
	17-11-2023	7.4 Physical properties (viscosity and viscosity index, oiliness	
	18-11-2023	<b>Discussion on doubts.</b>	
15	22-11-2023	flash and fire point, cloud and pour point only) and chemical properties (coke number, total acid number, saponification value) of lubricants	
	23-11-2023	8.1 Monomer, homo and co polymers , degree of polymerization	
	24-11-2023	8.2 simple reactions involved in preparation and their application of thermoplastics and thermosetting plastics (using Polythene, PVC, PS, PTFE, nylon-6,6 and Bakelite only)	
	25-11-2023	8.3 Vulcanization of rubber and properties of vulcanised rubber.	
16	28-11-2023	Revision as per doubts of Students	
	to 4-12-2023	Revision as per doubts of Students	
		Revision as per doubts of Students	

Dhakar  
 M.S.Thakur  
 H.O.D AS&L

**GP L&S at Udaipur Camp at Sundernagar Distt. Mandi (H.P)**  
**PLANNING OF PRACTICAL CONTENTS FOR THE LAB 10<sup>th</sup> August 2023 TO 04<sup>th</sup>**  
**December 2023**

Departments: -

4hrs/week

Course: - Diploma

Subject: Introduction to Information Technology (IS-108)

Credit: -2

Date	Content Planned	Group	Week	Remarks
11/08/2022	1.To identify various hardware Components on Computer System.	2	1	
14/08/2023	1.To identify various hardware Components on Computer System.	1	2	
16/08/2023	2. To assemble hardware components of Computer System.	1	2	
18/08/2023	2. To assemble hardware components of Computer System.	2	2	
21/08/2023	3. To install Window OS on Computer System.	1	3	
22/08/2023	3. To install Window OS on Computer System.	2	3	
23/08/2023	4.To study various features offered on the desktop, creating new folder and new file on the desktop.	1	3	
25/08/2023	4.To study various features offered on the desktop, creating new folder and new file on the desktop.	2	3	
28/08/2023	5.To work on different web browser (Google Chrome, Internet Explorer) setting up default homepage on browser and study various setting available.	1	4	
29/08/2023	5.To work on different web browser (Google Chrome, Internet Explorer) setting up default homepage on browser and study various setting available.	2	4	
30/08/2023	6.To open search engine (Google and Yahoo) search different information using the search engine. Creating an email account.	1	4	
01/09/2023	6.To open search engine (Google and Yahoo) search different information using the search engine. Creating an email account.	2	4	
04/09/2023	7.Visit Various e-governance/digital India portal and understanding service offered.	1	5	
05/09/2023	7. Visit Various e-governance/digital India portal and understanding service offered.	2	5	
06/09/2023	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.	1	5	

08/09/2023	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	5	
11/09/2023	9. Formatting a document, Creating and editing tables, mail-merge	1	6	
12/09/2023	9. Formatting a document, Creating and editing tables, mail-merge	2	6	
13/09/2023	10. Working on MS – EXCEL- Creating a worksheet in Excel. Copy, Move and Merge the cells and Use various Formatting features.	1	6	
15/09/2023	10. Working on MS – EXCEL- Creating a worksheet in Excel. Copy, Move and Merge the cells and Use various Formatting features	2	6	
18/09/2023	11. Using formula and functions prepare worksheet for storing subject marks of ten students and perform the following: <ul style="list-style-type: none"> <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> Create a chart for the above.	1	7	
19/09/2023	11. Using formula and functions prepare worksheet for storing subject marks of ten students and perform the following: <ul style="list-style-type: none"> <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> Create a chart for the above.	2	7	
20/09/2023	<b>Revision 1<sup>st</sup> Practical</b>	1	7	
22/09/2023	<b>Revision 1<sup>st</sup> Practical</b>	2	7	
25/09/2023	<b>Revision 2nd Practical</b>	1	8	
26/09/2023	<b>Revision 2nd Practical</b>	2	8	
27/09/2023	<b>Revision 3rd Practical</b>	1	8	
29/09/2023	<b>Revision 3rd Practical</b>	2	8	
03/10/2023	<b>Revision 4th Practical</b>	2	9	

04/10/2023	Revision 4th Practical	1	9	
06/10/2023	Revision 5th Practical	2	9	
09/10/2023	Revision 5th Practical	1	10	
10/10/2023	Revision 6th Practical	2	10	
11/10/2023	Revision 6th Practical	1	10	
13/10/2023	Revision 7th Practical	2	10	
16/10/2023	Revision 7th Practical	1	11	
17/10/2023	Revision 8th Practical	2	11	
18/10/2023	Revision 8th Practical	1	11	
20/10/2023	Revision 9th Practical	2	11	
23/10/2023	Revision 9th Practical	1	12	
25/10/2023	Revision 10th Practical	1	12	
27/10/2023	Revision 10th Practical	2	12	
30/10/2023	Revision 11th Practical	1	13	
31/10/2023	Revision 11th Practical	2	13	
01/11/2023	Revision as Per doubts of Students	1	13	
03/11/2023	Revision as Per doubts of Students	2	13	
06/11/2023	Revision as Per doubts of Students	1	14	
07/11/2023	Revision as Per doubts of Students	2	14	
08/11/2023	Revision as Per doubts of Students	1	14	
10/11/2023	Revision as Per doubts of Students	2	14	
17/11/2023	Revision as Per doubts of Students	2	15	
20/11/2023	Revision as Per doubts of Students	1	16	
21/11/2023	Revision as Per doubts of Students	2	16	
22/11/2023	Revision as Per doubts of Students	1	16	
28/11/2023	Revision as Per doubts of Students	2	17	
29/11/2023	Revision as Per doubts of Students	1	17	
01/12/2023	Revision as Per doubts of Students	2	17	

  
 Sh. Rajat Sharma  
 (Subject Teacher)

  
 Sh. Mohan Singh  
 (H.O.D AS&H.)



Govt. Polytechnic L&S at Udalpur Camp.at Sundernagar

Lesson Plan :

Aug.2023 to Dec.2023

Name of the Teacher : Suniti Rani

Subject : Yoga & Sports

Branch : Civil Engg.

Semester : 1st Sem.

S.No.	Month	Week	Date	Name of Chapter	Content to be taught	Remarks
1	August	1st	23,26	Introduction to Physical Education	Meaning & Def. , Aims & Objectives of Physical Education & Changing trends In Phy. Edu.	
2		2nd	30,2	Olympic Movement	Ancient & Modern Olympics, Awards & Honours In Sports In India	
3	September	3rd	6	Physical Fitness, Wellness & Lifestyle	Meaning & Imp. Of Physical Fitness & Wellness, Concepts of Positive Lifestyle	
4		4th	13,16	Fundamentals of Anatomy , Physiology and Kinesiology, Biomechanics & Sports	Define Anatomy , Physiology & Its Importance and Meaning & Importance of Kinesiology & Biomechanics in Physical Edu. & Sports	
5		5th	20,23	Postures & Yoga	Meaning , Concept & Advantages of Postures, Meaning & Imp. of yoga, Introduction - Asanas, Pranayama, Meditation & Yogic Kriyas	
6		6th	27,30	Yoga & Lifestyle	Asanas as preventive measures - For Hypertension, Obesity, Back Pain , Diabetes & Asthema.	
7	October	7th	4,7	Training & Planning in Sports	Meaning of Training , Meaning and Objectives of Planning . Warming up & limbering down. Skill , Techniques & Style	
8		8th	11	Psychology & Sports	Def. & Imp. of Psychology . Define Growth & Development, Adolescent Probelms & Their Management, Psychological benefits of exercise.	
9		9th	18,21	Psychology & Sports	Emotions: Concept, Type & Controlling of Emotions. Anxiety & Fear and its effects on Sports Performance. Understanding Stress & Coping Strategies.	
10		10th & 11th	25,1, 4	Sports Medicine	First Aid, Sports Injuries & Management of Injuries.	
12	November & December	12th & 13th	18,22 ,25	Doping	Meaning & Concept of Doping. Prohibited Substances & Methods. Side Effects of Prohibited Substances.	
13		14th	29,2	Sports / Games	History of the Game / Sport. Latest General Rules of the Game / Sport.	

Teacher's Signature  
Suniti Rani (Lect. Mathematics)

HOD  
Applied Science & Humanity

Govt. Polytechnic L&S at Udalpur Camp.at Sundernagar

Lesson Plan :

Oct.2022 to Jan.2023

Name of the Teacher :

Suniti Rani

Subject :

Mathematics -I

Branch : Civil Engg.

Semester : First

S.No.	Month	Week	Date	Unit	Name of Chapter	Content to be taught	Remarks
1	AUGUST	1st	21,22 ,23,2 5,26	Trigonome try	Angles and Its Measurement	Measurement of angles in three system & conversions(Ex-1.1)	
2		2nd	28,29 ,1,2	Do	T-Ratio of Allied Angles	Exercise 2.1	
3	SEPTEMBER	3rd	4,5,6, 8	Do	Addition and Subtraction Formule	Ex-3.1 (Discussion on Doubts)	
4		4th	11,12 ,13,1 5,16	Do	Transformation of Products Into sum or difference and vice versa	Exercise -4.1	
5		5th	18,19 ,20,2 2,23	Do	T-Ratio of multiple & Sub- multiple angles and Graphs	Ex-5.1 & Graphs of $\sin x$ & $\cos x$ (Discussion on Doubts)	
6		6th	25,26 ,27,2 9,30	Differentia l Calculus	Functions	Revision and CLASS TEST -1 Ex- 1.1	
7	OCTOBER	7th	3,4,6, 7	Do	Limits and Differentiation	Ex-1.2 , Ex-1.3 & Diff. of a Fun.by 1st Principle( $\sin x, \cos x$ & $\tan x$ )	
8		8th	9,10, 11,13	Do	Diff. of sum, product & quotients of functions and Diff. of fun.of fun.	Rules for Differentiation ( Ex-2.2) Exercise 2.3	
9		9th	16,17 ,18,2 0,21	Do	Inverse Trig. Function and Logarithmic Differentiation	Ex-2.4 & Ex-2.5 (Discussion on Doubts)	
10		10th	23,25 ,27	Do	Differentiation	Revision and CLASS TEST -2	
11	OCTOBER / NOVEMBER	11th	30,31 ,3,4	Algebra	Complex Number	Def. , Real & Imag. Parts Ex-1.1 , Mod. & Amp. of complex No., Polar Form & De-Moivre's Theorem Ex-1.2	
12		12th	6,7,8, 10	Do	HOUSE TEST	Revision and HOUSE TEST	
13		13th	17,18	Do	Partial Fractions	Solution of Non-Repeated linear factors Ex-2.1	
14		14th	20,21 ,22,2 4,25	Do	Partial Fractions and Permutations & Combinations	Repeated Linear Factors (Ex-2.2) and Ex-3.1 , Ex-3.2 , & Ex-3.3	
15	NOVEMBER / DECEMBER	15th	28,29 ,1,2,4	Do	Binomial Theorem Properties of Binomial Coefficients	Expansion of B. Theorem , Gen. Term , Middle Term , Constant Term & find the Coefficients ( Ex-4.1 & Ex-4.2 )	

Teacher Signature  
Suniti Rani (Lect. Mathematics)

HOD

Applied Science & Humanity

## GP L&S at Udaipur Camp at Sundernagar Distt. Mandi (H.P)

Planning Of Theory Contents for the Period 10<sup>Th</sup> August 2023 to 04<sup>TH</sup> December 2023

Departments: -Applied Sciences and Humanities

2hrs/week

Course: - Diploma


Subject: Introduction to Information Technology (ES-102)

Credit: -02

Date	Content Planned	Week	Remarks
14/08/2023	1.1.Block Diagram of Computer System	1	
19/08/2023	1.2 General Understanding of various Hardware Components	1	
21/08/2023	1.3 CPU, Memory, Keyboard, Mouse, HDD.	2	
26/08/2023	<b>Discussion On Doubts</b>	2	
28/08/2023	2.1 Software and its Type. 2.2 Operating System.	3	
02/09/2023	2.3 Types and Function of Operating System 2.4 Booting the System (Cold and Warm Boot)	3	
04/09/2023	<b>Discussion On Doubts</b>	4	
11/09/2023	3.1 Understanding the terminology of Internet-Web Browser.	5	
16/09/2023	3.2 Search Engine, World Wide Web.	5	
18/09/2023	3.3 Types of Networks 3.4 Awareness about the government portal (State portal and National portal).	6	
23/09/2023	<b>Discussion On Doubts</b>	6	
25/09/2023	<b>Class Test-1. Scheduled as per Academic Calendar.</b>	7	
30/09/2023	4.1 File Management (Creating New Document, saving a document, Printing a document). 4.2 Editing a document, Use of Home, Insert, Design, Layout, Ribbons.	7	
07/10/2023	<b>Discussion On Doubts</b>	8	
09/10/2023	5.1 Working with spread sheets,	9	
16/10/2023	5.2 Entering data into the cells, merging cells, formula bar	10	

21/10/2023	5.3 Uses simple function such as SUM, AVERAGE, MIN, MAX.	10	
23/10/2023	<b>Class Test-2. Scheduled as per Academic Calendar.</b>	11	
30/10/2023	5.4 Function Percentage, Round, Floor, Ceiling, Conditional Formatting Cells.	12	
04/11/2023	6.1 Concept of Online Fraud 6.2 Threats of online Crime	12	
06/11/2023	6.3 Virus Attacks.	13	
07/11/2023	<b>House Test (Scheduled as per Academic Calendar)</b>	13	
10/11/2023	6.4 Uses of Antivirus	13	
18/11/2023	Revision as Per doubts of Students	14	
20/11/2023	Revision as Per doubts of Students	15	
25/11/2023	Revision as Per doubts of Students	15	
02/12/2023	Revision as Per doubts of Students	16	

Sharma  
 Sh. Rajat Sharma  
 (Subject Teacher)

  
 Sh. Mohan Singh  
 (H.O.D AS&H.)

Government Polytechnic Lahaul Spltl at Udalpur Camp At Sundernagar Distt Mandl (H.P) -175018

Lesson Plan for Engineering Graphics (Semester-1st)Session: ( 2023-24)

S.No.	MONTH	WEEK	DATE	NAME OF CHAPTER	CONTENTS	REMARKS
1	AUG	Week 2	10	Basic elements of Drawing	Drawing Instruments and supporting materials: method to use them with applications. Convention of lines and their applications. Representative Fractions – reduced, enlarged and full size scales; Engineering Scales such as plain and diagonal scale	
		week3	16,17	Basic elements of Drawing	Draw horizontal, Vertical, 30 degrees, 45 degrees, 60 and 75 degrees lines, different types of lines, dimensioning styles using Tee and Set squares/drafter Write alphabets and numerical in 7:4 scale (Vertical only) (do this exercise in sketch book). Dimensioning techniques as per SP-46:2003 – types and applications of chain, parallel and coordinate dimensioning Write alphabets and numerical in 7:4 scale (Vertical only) (do this exercise in sketch book).	
		week 4	23,24	SCALES	Draw some problems on Engineering Plain and diagonal scale (sheet)	
		week5	30,31	Orthographic projections	Introduction of projections-orthographic, perspective, isometric and oblique: concept and applications. (No question to be asked in examination). Introduction to orthographic projection, First angle and Third angle method, their symbols. Conversion of pictorial view into Orthographic Views – object containing plain surfaces, slanting surfaces, slots, ribs, cylindrical surfaces. (use First Angle Projection method only)	
		week2	7	Orthographic projections	Draw some problems on orthographic projections using first angle method of projection having plain and slanting, cylindrical surfaces, ribs and slots.	
2	SEP	week3	13,14	Orthographic projections	Draw some problems on orthographic projections using first angle method of projection having plain and slanting, cylindrical surfaces, ribs and slots.	
		week4	20,21	Isometric Projections	Introduction to isometric projections. Isometric scale and Natural scale. Isometric view and isometric projection.	CLASS TEST-I
		week 5	27,28	Isometric Projections	Illustrative problems related to objects containing lines, circles and arcs shape only. Conversion of orthographic views into isometric view/projection.	
		week 1	4,5	Isometric Projections	Draw some problems on Isometric view of simple objects having plain and slanting and cylindrical surface (e.g. Cube, Cone and cylinder etc.) by using natural scale	
3	OCT	week 2	11,12	Free Hand Sketches of engineering elements	Free hand sketches of machine elements: Thread profiles, nuts, bolts, studs, set screws, wash-er, Locking arrangements. (For branches other than mechanical Engineering, the teacher should select branch specific elements for free hand sketching). Free hand sketches of orthographic view (on squared graph paper) and isometric view (on isometric grid paper).	

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		week 3	18,19	Free Hand Sketches of engineering elements	Draw free hand sketches/ conventional representation of machine elements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements	
		week 4	25,26	Free Hand Sketches of engineering elements	Draw free hand sketches/ conventional representation of machine elements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements	CLASS TEST-II
4	NOV	week 1	1,2	Computer aided drafting Interface	Computer Aided 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, status bar, drawing area, UCS icon.	
		week 2	8,9	Computer aided drafting	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 action	HOUSE TEST
		week 3	15,16	Computer aided drafting	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.	
		week 4	22,23	Computer aided drafting	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, layers.	
		week 5	29,30	Computer aided drafting	Dimensioning: Linear, Horizontal Vertical, Aligned, Rotated, Baseline, Continuous, Diameter, Radius, Angular Dimensions. Dim scale variable. Editing dimensions. Text: Single line Text, Multiline text.	


  
 Signature of Teacher  
 (Er. PAWAN KUMAR)

  
 Signature of H.O.D  
 (A/S)

**Govt. Polytechnic Lahaul & Spiti at Udaipur Camp at Sundernagar Mandi HP**  
**Lesson Plan**  
**1.st Semester Civil Engg.**

S.No	Date	Week	Activity	Name of Teacher
August	14,19,	3.	Race 100 m,200m,	
	,21,26	4	Race 400 m800m	
	28	5	High jump boys	
September	2,	1	High jump girl	
	4,	2	Long jump girl	
	11,16,	3	Long jump,boys	
	18,23,	4	DECLAMATION	
	25,30,	5	Shot put boys/girl	
October	7	1	Dis. Caush,through.	
	9,	2	kabaddi	
	16.21,	3	QUIZ COMPITION	
	23,	4	Basket boll	
	30	5	Basket boll	
November	4	1	Basket boll	
	6	2	WRITING COMETITION	
	18	3	Cultural activity	
	20,25	4	do	
December	2,	5	Paper reading contest	
	4	1	Guest lecturer	
	11,16	2	Volley boll	
	18,23			

  
Signature of Teacher

  
Signature of HOD