Govt. Polytechnic Talwar (Deptt. Of Applied Sciences) Lesson Plan

Session:August-2025-December-2026

The second of th	ugust-2025-December-2026
Name of Subject: Applied to	Designation: Lecturer Mathematics
Name of Subject: Applied Mathematics-1	Class: Civil Engg.

Sr. No	Month	Week	Date	Topic	Contents to be tourt	
1		1st	.2	-	Contents to be taught Orientation	Remarks
2		-		1	Original	U
3					COLLECT	
4	2nd		2nd 4,5,7,8		of angles,measurement of angles in	6
5					degrees, grades and radians and their	
6			11,12, T-Ratios of Allied angles (without			
7		9833	11 12		T-Paties of Allia day of Allia	
8	3rd Aug.		310		r-katios of Allied angles (without	Λ
9	A		14 proof),their	proof), their applications (without		
10	Aug.		22.00	4	proof).	
11	18,19, 4th 21,22,					
12	1		Trigonometry	Sum difference for the contract of the contrac		
13			23	gonometry		
14		their applications (without proof				
15			25,26, Product formulae /Transformation of			
16		5th	28,29,3		Product formulae (Transformation of	
17		9,510		1 1	product to sum,	
18			0		difference and vice versa)	
19				1 1		
20	1,2,4,5,		1 1			
21		1st	100000	1 1	T- Ratios of multiple angles, sub-	
22	6		multiple angles			
23						
24				1 1		
25			8,9,11,		Deficial of	
26		2nd				Class Test 1
27	2nd 8,9,11, Definition of function ; Concept of limits		Ciass lest 1			
28						
29	Sept.		SERVER !			
30	Sept.	Harry III	15,16,		eta prestoria star	
31	13,10,		18,19,		Standard limits	
32			20			
33			7/32/29			
34			22.22			
35		9,00000	22,23,		7 12 4 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
36		4th	25,26,2		Differentiatin by definition	
37	5th 29,30 Diff		7			
38			1			
39			1000	Differentiatin of sum , product		
40		301	25,50	Differential	1	
41				Calculus	Differentiatin of and quotient function	

85		2nd	8		Formula Revision								
80 81 82 83	Dec.	1st	1,2,4,5, 6		Binomial theorem for positive integral index (expansion and general term); binomial theorem for any index (without proof) first and second approximationwith applications to								
75 76		4th	24,25, 27,28,2		Permutation and Combination								
70 71 72 73 74		3rd	17,18, 20,21, 22	Aigebra	Partial fractions: Definition of polynomial fractionproper and improper fraction. Resolve proper fraction into partial fraction with denominator containing non-repeated								
65 66 67 68 69	Nov.	2nd	10,11, 13,14, 15	22 19	3. H			Algober	Algebra	Algebra	Algebra	conjugate, modulus and amplitude ;addition, subtraction, multiplication and division f a complex number De-moivre's theorem and its applications	House Test
61 62 63 64		1st	1,3,4,6, 7		polar and cartesian representation of a complex number and its conversion from one form to other								
56 57 58 59 60		5th	27,28, 30,31		Complex Numbers : Definition,real and imaginary parts of a complex number								
52 53 54 55	24	4th	21,22,2 4,25		Logarithmic differentiation								
47 48 49 50 51	Oct.	3rd	13,14, 16,17,1 8		Differentiation of trigonometric and inverse trigonometric function	Class Test 2							
43 44 45 46		2nd	6,9,10, 11		Differentiation of function of function								
42		1st	2,3,4										

Signature of Teacher

HOD Applied Sciences

Applied Sciences Department

Subject plan for the Session 2025-2026

Name of the subject -- Applied Physics-I

Branch :- Civil Engg.

Sem :- 1st

r. No	Contents to be taught	Date	Remarks
	Unit-1 : Physical World, Units and Measurements	-	-
1	Physical quantities Units - fundamental and derived units, systems of units (FPS, CGS and SI units)	4 Aug.	
2	Dimensions and dimensional formulae of physical quantities	6,8 Aug.	
3	DCS	11 Aug.	
4	Principle of homogeneity of dimensions		
5	Dimensional equations and their applications, conversion from one system of units to other,	13,18,20,22 Aug.	
6	checking of dimensional equations and derivation of simple equations.	100000	
7	DCS	23 Aug.	
8	Limitations of dimensional analysis	25,27 Aug.	
9	Error in measurement, absolute error, relative error, rules for representing significant figures in calculation.	43,517,100	
	Unit-2 : Force and Motion	100-00	
10	Scalar and vector quantities – examples, representation of vector, types of vectors	29 Aug.	
11	DCS	30 Aug.	
12	Addition and Subtraction of Vectors, Triangle and Parallelogram law (Statement only), Scalar and Vector Product.	1,3 sept.	
13	Resolution of Vectors and its application to lawn roller.	5 Sept.	-
14	DCS and Revision for CT1	6 Sept.	-
15	Institute, and its Anglications	8,10 Sept.	-
16	City description of annular displacement, angular velocity, angular acceleration, frequency, time period.	12 Sept.	-
17	the send accular valocity, linear acceleration and angular acceleration (related numerical)	15,17 Sept.	-
-	Relation between linear and angular venetry, income such as banking of roads and bending of cyclist Expression and Applications of Centripetal and centrifugal forces with examples such as banking of roads and bending of cyclist	19 Sept.	-
18	DCS and Revision	19 Sept.	-
19	West Bower and Energy	20 Sept.	-
	f work positive work and negative work	22.24 Sept.	_
20	Work: and its units, examples of zero work, positive work to a serious and its Engineering Applications. Friction: modern concept, types, laws of limiting friction, Coefficient of friction and its Engineering Applications.	28 Sept.	
21			
22	OCS Work done in moving an object on horizontal and inclined plane for rough and plane surfaces with its applications work done in moving an object on horizontal and inclined plane for rough and plane surfaces with its applications	27,29 Sept.	-
23	Work done in moving an object on honzontal and incated plants and their derivation Energy and its units: Kinetic energy and gravitational potential energy with examples and their derivation Energy and its units: Kinetic energy and gravitational potential energy with examples of transformation of energy.	1 Oct.	
24	Energy and its units: Kinetic energy and gravitational potential energy and its units: Kinetic energy and gravitational potential energy for freely falling bodies, examples of transformation of energy. Principle of conservation of mechanical energy for freely falling bodies, examples of transformation of energy.	3 Oct.	1
25		4 Oct.	
26	Power and its units, calculation of power in numerical problems	1.00	



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	Unit-4 : Rotational Motion	
28	Concept of translatory and rotatory motions with examples , Definition of torque and angular momentum and their examples	6 Oct.
29	DCS	8 Oct.
30	Conservation of angular momentum (quantitative) and its examples	10 Oct.
31	Moment of inertia and its physical significance, radius of gyration for rigid body,	13 Oct.
32	DCS and Revision for CT2	15 Oct.
33	Theorems of parallel and perpendicular axes (statements only), Moment of inertia of rod, disc and ring (Formulae only no derivation).	17 Oct.
	Unit-5 ; Properties of Matter	
34	Elasticity: definition of stress and strain, different types of modulii of elasticity, Hooke's law, significance of stress strain curve	18,27 Oct.
35	DCS and Revision	29 Oct.
36	Pressure: definition, its units, atmospheric pressure, gauge pressure, absolute pressure, Fortin's Barometer and its applications	310ct.
37	Surface tension: concept, its units, angle of contact, Ascent Formula (No derivation),	1, 3 Nov.
38	DCS and Revision for HT	7 Nov.
39	applications of surface tension, effect of temperature and impurity on surface tension	19 Nov.
-	Unit-6 : Heat and Thermometry	-
40	Difference between heat and temperature	19 Nov.
41	Modes of transfer of heat (Conduction, convection and radiation with examples)	-
42	DCS	21 Nov
43	Different scales of temperature and their relationship	22 Nov.
44	Types of Thermometer (Merrany Thermometer, Birnetallic Thermometer, Platinum resistance Thermometer, Pyrometer)	24 Nov.
45	Expansion of solids, liquids and gases, coefficient of linear, surface and cubical expansions and relation amongst them	26 Nov
	Concept of Co-efficient of thermal conductivity	20 NOV

Signature of Teacher/Nemijei Choudhary)

Signature of H.O.D

PLANNED THEORY SYLLABUS COVERAGE

Applied Sciences & Humanaties Applied Chemistry - I

Lot from Automobile & Child legs.

Guration: - Sat Aug. 2025 to 26th Nov. 2025

Interproduct theory 56 Practical 19

	Perio d No.	Topic	Detail of Contents	Instruction Reference	Additional study recommended	Remarks
1	7	Atomic Structure	Fundamental particles of atoms. Electron, proton, neutron (Definition): 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, 1.3. Heisenberg uncertainty principle, Quantum numbers—orbital concept, Shapes of 1. p orbitals—difference between orbit and orbital. 1.4 Pauli's exclusive principle. Hund's rule of maximum multiplicity. Authorizing electronic configuration (2–1 to 30).	Applied Chemnury Eagle Prakethen	NCERT Test book of Chemistry, Engineering Chemistry Cambridge universitythy Agarwal & Shikha, Understanding Chemistry by CNR Rao.	
2	7	Chemical Bonding And Solutions	2 (Concept of chemical bending – cause of chemical bonding, types of bonds tortic bonding (NaCl example) 2.2 Eartis concept of covalent bond (H2, F2 HF) Electroregativity. Difference between sigma and pie bond 2.3 Electror sea model of impallic bond 2.4 libra of soluta, solvent and solution 2.3 Methods to express the concentration of solution molarity (M – mole per liter), molalic mass percentage (Numerical excluded)	Applied Chemistry Eagle Frakasines	NCERT Test book of Chemistry, Engineering Chemistry Cambridge university6y Agarwal & Shikha, Understanding Chemistry by CNR Rad	
3	10	Electrochem stry And Corrosion	3.1 Electronic concept of oxidation, reduction and relative reactions. Definition of terms: electrolytes, non-electrolytes with suitable examples, 3.2 Faradow loss of electrolytes and sample numerical problems. 3.3 Industrial application of electrolytes: • Electromotallungs • Electrophaning • Electrolytes: refining, 3.4 Application of redox reactions in electrochemical cells: • Primary cells: der sell, • Secondary cells: commercially used lead acid storage battery. 3.5 Immunication to Corresion of metals: - definition, types of corrosion (electrochemical), 1(2 liberation and O.2 absorption mechanisms of electrochemical corrosion 3.6 Internal controlion preventive measures. • Partification, alloying and heat treatment and Exercal corrosion preventive measures metal (anodic, cathodic) contings.	Applied Chemistry Eagle Prakashan	NCERT Text book of Chemitry, Engineering Chemitry Contridgo universityBy Agarnial & Shikha, Understanding Chemistry by CNR Rao.	
527	7	Engineering Materials	4. I Natural occurrence of metals – minerals, ones of iron, aluminium and copper, ganguo (matris), flus, sing, metallurgy – brief account of general principles of metallurgy(s). Crushing and grinding (b) Concentration of one (Levigation, Froth Floation, Magnetic separation) (c) Estraction) Rossing and calcinations & smelting) (d) Refining (Electro refining, zone refining). 4.2 Extraction of – iron from hadmatite one using blast furnace along with reactions. 4.3 Alloys – definition, purposes of alloying, ferrous alloys (Invar steel) and non-ferrous (Simple Brass & Brodue; Nichrome, Durulumin, Magnetium) with suitable examples, procenties and applications.	Applied Chemistry Eagle Prakastan	NCFRT Test book of Chemistry Engineering Chemistry Cambridge universityby Agarwal & Shikha, Understanding Chemistry by CNR Rap	
	8	Water	5.1C lassefication of soft and hard water based on snap sest, salts causing water hardness, uses of bardness(mg/L and ppm) and simple minimed on water hardness. Cause of pone lathering of snap in hard water. 5.2 Problems caused to the use of hard water in boiler tocale and sludge, foaming and printing, exercision to 5.3.1 water softening sechniques- sendite process is. Municipal water treatment on brief ords)—sedimentation, coagulation, filtration, sterification, 5.4 Properties of water used fire human consumption for drinking and cooking purposes from any water sources and Indian standard specification of drinking water.	Applied Chemistry Engle Prakachan	NCERT Text book of Chemistry, Engineering Chemistry Cembridge University Agricul & Stakha, Unperstanding Chemistry by EMR Rus.	
	7	Fuels	6.1 (Definition of fuel and combission of fuel, classification of fuels 6.2 colorific values (FCV and LCV), calculation of HCV and LCV reing Dalong's formula. Characteristics of good faci 6.3 Petrol and desci - fuel ming joctane and cesare numbers; 6.4 Chemical composition, calorific values and applications of LNG, CNG, water gas, producer gas and brugas.	Applied Chemistry Eagle Prakeshin	NCERT Text book of Chemistry, Evigencering Chemistry Cembridge universityBy Agarwal & Shikha, Understanding Chemistry by CNR Rap	
88	7	Lubrication	7.1Function and characteristic properties of good lubricant. 7.2 class/fication with	Appled Chamistry Eagle Prakashan	NCERT Tast book of Chemistry, Engineering Chamistry Cambridge unwersityBy Agarwal & Shikha, Understanding Chemistry by CNR Rao	
	3		8.1 Manager, home and co-polymers , degree of polymerication 8.2 simple	Applied Chemistry Eogle Prakashan	NCERT Test hock of Chemistry, Engineering Chemistry Cambridge universityBy Agarwal & Shikha, Understanding Chemistry by CNR Rac.	

Signature of Teacher Night Katoch Lecture: Chamistry

Applied Scinecise and Humanities

LESSON PLAN

Name of Teacher: - Meenakshi Saini Subject: Communication Skills in English Class: 1st Semester Civil Engg.

S. No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1		1st Week	1,2		00000000000000000000000000000000000000	nemarks.
			4	Orientation		
2		2nd week	8		Basics of communication: Introduction, Meaning and definition, Process of Communication etc.	
3		3rd week	11		1.2. Types of communication: formal and informal, verbal, non-verbal and written	
4	August	4th week	18,22,23	Unit-1 Communication: Theory and Practice	Barriers to effective communication 7Cs for effective communication (considerate, concrete, concise, clear, complete, correct, courteous). 4. Art of Effective communication: A. Choosing words 8. Voice C. Modulation D. Clarity E. Time F. Simplification of words	
5		5th week	25		Art of Effective communication: A. Choosing words B. Voice C. Modulation D. Clarity E. Time F. Simplification of words Technical Communication.	
			29		Introduction: Soft Skills and Hard Skills.	
6		1st week 1,5,6 Unit-2 Soft Skills for	Importance of soft skills 3 . Life skills: Self-awareness and Self-analysis, adaptability,			
7	September	2nd week	8	Excellence	Life skills: Resilience, emotional intelligence and empathy etc. 4. Applying soft skills across cultures.	
			12		Class Test-1	

How

8		3rd week	3rd week 15,19, 20	Section-1 Short Stories 1. "The Gift of the Magi" by O. Henry. 2. "Uncle Podger Hangs a Picture" Jerome K. Jerome.		
9	September	4th week	22, 26,27	Comprehension, vocabulary enhancement and grammar exercises based on reading of the following texts Ex	Section-1 Short Stories 2. "Uncle Podger Hangs a Picture" Jerome K. Jerome. Section-2 Poetry 1. "Night of the Scorpion" by Nissim Ezekiel. 2. "Stopping by Woods on a Snowy Evening" by Robert Frost.	
10		5th week	29		"Where the Mind is Without Fear" by Rabindranath Tagore	
11		1st week	3,4	Unit-4 Professional	1. The art of précis writing.	
12	2nd week		6	Writing	2. Letters: business	
13	October	3rd week	13		Class Test-2	
13	37d Week 17, 18			Diwali Vacation		
14		4th week	24, 25	Unit-4 Professional	2. Letters: personal. 3. Drafting e-mail	
15		5th week	27,31	Writing	3. Drafting Notices, minutes of a meeting etc	
16		1st week	1	Unit-5 Vocabulary and Grammar	Glossary of administrative terms (English and Hindi).	
17	1 1	2nd week	3,7		House Test	
18	November	3rd week	10, 14, 15	Unit-5 Vocabulary and	One-word substitution, Idioms and phrases etc., 3. Parts of Speech	
19	1	4th week	17, 21, 22	Grammar	3. Active and passive voice, Tenses, etc	
20	1 1	5th Week	24	1	3. Punctuation	



Signature of Teacher

	100		GOVT. POLYTECHNIC TALWAR, DISTT. KANGRA, H.P.			-
	III A	7	PLANNED THEORY SYLLABUS COVERAGE Applied Sciences & Humanaties			
	E	7	Inrtoduction to IT System	Duration: -	enviews a	
	ADD!	h:- 1st Sem. Civil En	gineering.	1st August 202	5 to 26th November 2	025
		d Periods:-	Theory: 28			
1	ods per unit	Topic	Detail of Contents	Instruction Reference	Additional study recommended	Remarks
	5	UNIT 1: Basics of Computer System	Block Diagram of Computer System, General Understanding of various hardware components- CPU, Memory, Display Devices (CRT and LCD Monitors), Keyboard, Mouse, HDD.	Introduciton to IT system - Eagle Publications	Introduction to IT Systems (with Lab Manual)" by Prashant Joshii,	
2	5	UNIT 2: Software Concepts	Software and its types, Operating System: Definition, types and function of Operating System, Booting the system (Cold and warm).	Introduciton to IT system - Eagle Publications	Introduction to IT Systems (with Lab Manual)" by Prashant Joshi	
3	5	UNIT 3: Internet Skills	Understanding the terminology of internet-web browser, search engine, world wide web, Types of Networks. Awareness about the government portals (state portals and national portals) and institute portals.	Introduciton to IT system - Eagle Publications	Introduction to IT Systems (with Lab Manual)" by Prashant Joshi.	
4	5	UNIT 4: Working with MS- Word	File Management (Creating new document, saving a document, printing a document), Editing a document, use of Home, Insert, Design Layout ribbons.	Introduciton to IT system - Eagle Publications	Introduction to IT Systems (with Lab Manual)" by Prashant Joshi	
5	5	UNIT 5: Working with MS- Excel	Working with spread sheets, entering data into the cells, merging cells, formula bar, usage of simple functions such as sum, average, min, max, percentage, round, floor ceiling, conditional formatting of cells.	Introduciton to IT system - Eagle Publications	Introduction to IT Systems (with Lab Manual)" by Prashant Joshi,	
6	3	UNIT 6: Information Security	Concept of online frauds, threats of online crime, virus attacks and use of antivirus	Introduciton to IT system - Eagle Publications	Introduction to IT Systems (with Lab Manual)" by Prashant Joshi,	
		lime of Teacher		Applied Scinerne and		

Humanities

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

Name of Teacher:-Gaurav Puwari		Designation:-Lecturer Auto Engg.		
Name o Graphi	of Lab/Workshop:- Engineering cs	Class/Branch:- 1st sem/Civil Engg.	Group:- G 1 & G	2
Sr. No.	Description of Practical job		Date	Remarks
1	lines, different types of lines, din	rees, 45 degrees, 60 and 75 degrees nensioning styles using set s and numerical in 7:4 scale (Vertical	5/8, 6/8, 12/8, 13/8, 19/8	
2	Draw some problems on Engine	ering Plain and diagonal scale	20/8,26/8, 27/8	
3	Draw some problems on orthogomethod of projection having pla and slots.	2/9, 3/9, 9/9, 10/9 , 16/9		
4	Draw some problems on Isomet and slanting and cylindrical surfa using natural scale.	17/9,23/9, 24/9		
5	Draw free hand sketches/ conve elements in sketch book such as screws, washers, Locking arrange	30/9, 1/10, 8/10, 14/10, 15/10		
6	objects with few missing lines, the	the orthographic views of at least three he student will try to imagine the e the views and draw these views in	21/10, 28/10	
7	Draw basic 2D entities like: Rect	angle, Rhombus, Polygon using AutoCAD.	29/10, 11/11	
8	Draw basic 2D entities like: Circle	es, Arcs, circular using AutoCAD.	12/11	
9	Draw basic 2D entitles like: Circu	lar and rectangular array using AutoCAD.	18/11	
10	Draw blocks of 2D entities comprises of Rectangle, Rhombus, Polygon, Circles, Arcs, circular and rectangular array, blocks using AutoCAD.		19/11	
11	Draw basic branch specific comp	onents in 2D using AutoCAD.	25/11	
12	Draw complex branch specific co	26/11		

Signature of Teacher

Signature of HOD

GOVT POLYTECHNIC TALWAR (Deptt. of Applied Sciences)

Lesson Plan

(Labs/Workshop)

Session: Aug. 2025-Dec. 2025

Name of the teacher: Bhupinder Kumar Designation: Computer Assistant Name of Lab: Introduction to IT Systems Class: 1st Civil Engg.

r.No.	Description of Practicals	Date			
	TP-01 A COLUMN TO THE PARTY OF	Group-1	Group-2		
1	To identify the various hardware components of computer system.	12-14 / 8	8-11/8		
2	To assemble hardware components of Computer System.	19-21/8	18-22/8		
3	To install Windows OS on computer system.	26-28/8	25-29/8		
4	To study the various features offered on the desktop, creating new folder and new file on the desktop.	2-4/9	1-5/9		
5	To work on different web browsers(google chrome, internet explorer), setting up default homepage on browser and study the various settings available.	9-11/9	8-12/9		
6	To open search engines (google and yahoo) and search different information using the search engines. Creating an e-mail Account.	16-18/9	15-19/9		
7	Visit various e-governance/digital India Portals and understanding the services offered.	23-25/9	22-26/9		
	Revision	30/9 &9/10	29/9 &3/10		
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.	14-23/10	10-13/10		
9	Formatting a document, Creating and editing tables, mail-merge.	28-30/10	24-27/10		
10	Working on MS – EXCEL- Creating a worksheet in Excel. Copy, Move and Merge the cells and Use various Formatting features.	4-13/11	31/10 & 3/11		
	Using formula and functions prepare worksheet for storing subject marks of ten students and perform the following:	18-20/11	7-21/11		
11	Calculate the student wise total and average.				
11	Calculate the subject wise total and average.	garan deces	processor and a		
	Calculate the overall percentage and also individual percentage of the student.	18-20/11	7-21/11		
	Create a chart for the abov & Revision				
	- L				





Applied Sciences Department

Subject plan for the Session 2025-2026

Name of the subject :- Applied Physics-I Lab

Branch :- Civil Engg.

Sem. :- 1st

Sr. No	Description of Practicals	Plann	Planned Dates	
00000	Description of Placticals	Group I	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	20 Aug.	21 Aug.	
2	To determine diameter of a wire, a solid ball and thickness of cardboard using a screw gauge.	27 Aug.	28 Aug.	
3	Revision & Viva	3 Sept.	4 Sept.	
4	To determine radius of curvature of a convex and a concave mirror/surface using a spherometer.	10 Sept.	11 Sept.	
5	To verify triangle and parallelogram law of forces.	17 Sept.	18 Sept.	92
6	Revision & Viva	24 Sept.	25 Sept.	
7	To determine force constant of a spring using Hook's Law.	8 Oct.	9 Oct.	
8	To verify law of conservation of mechanical energy (PE to KE).	15 Oct.	16 Oct.	
9	Revision & Viva	29 Oct.	30 Oct.	
10	To find the co-efficient of friction between wood and glass using a horizontal board	12 Nov.	13 Nov.	
11	To find the moment of inertia of a flywheel.	19 Nov.	20 Nov.	
7777	Revision & Viva	26 Nov.		

Signature of Teacher(Namjel Choudhary)

Signature of H.O.D

GOVT. POLYTECHNIC TALWAR PLANNING AND COVERAGE OF PRACTICALS

	EPARTMENT :- APPLIED SCIENCES AND HUMA	LABORATORY:	CHEMISTRY LAB			
	SEM & BRANCH :- FIRST AUTOMOBILE AND CIVIL	ENGG.	SUBJCET:-	APPLIED CHEMISTRY (85109)		
ı	Details of Practicals	Availability of				
	Details of Practicals	Equipment Setups	STO Ref Write up	Likely Dates	Actual dates	Signature
	Preparation of standard solution of oxalic acid.		Applied Chemistry Laboratory Practices, Vol- I & Vol-II, NITTE	Second week of August 2025		
	To determine strength of given sodium hydroxide solution by titrating against standard oxalic acid solution using phenolphthalein indicator.		Chemistry for Engineers, By Agnihotri, Rajesh	Fourth week of August 2025		
	Experimental verification of Faraday's first law of Electrolysis using Copper sulphate solution and Copper electrodes.		Engineering Chemistry by Jain & Jain	Second week of September 2025		
	Indometric estimation of Copper in the given Copper ore using standard Hypo solution.		Applied Chemistry Laboratory Practices, Vol- 1 & Vol-II, NITTTR	Fourth week of September 2025		
	To estimate total alkalinity of given water sample by titrating it against standard Sulphuric acid solution.		Chemistry for Engineers By Agnihotri, Rajesh	Third week of October 2025		
	To estimate moisture in given coal sample gravimetrically		Engineering Chemistry by Jain & Jain	Fifth week of October 2025		
	To estimate ash in given coal sample gravimetrically.		Applied Chemistry Laboratory Practices, Vol I & Vol-II, NITTTR	Second Week of Navember 2025		
	To determine viscosity of given lubricating oil by Redwood viscometer		Applied Chemistry Laboratory Practices, Vol. I & Vol. II, NITTTR	Fourth week of November 2025		

Signature of Teacher Nidhi Katoch Lecturer Chemistry

Applied Scinecne and Humanities

Govt. Polytechnic Talwar Dist. Kangra H.P. 176096 Lesson Plan

sports and Yoga Name of Teacher: (Labs/Workshop) C. Land C. P. Name of Joh/Workshop. Civil Enge is, so Description of Practical Job Street Streets Senior. Introduction to Physical Education Science of Physical Education

of Name & Objectives of Physical Education

of Changing Steeds on Physical Education 63 HARRISTS. (BURDOOT) and md (0/68 2308 Olympic Newsmant/Americ & Modern Olympic (Samule & Winter)

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Districted Americ Raja: Gentlis Kind Rabas /ward and 15060003 and Jibbs 8490(3) Physical Fitness, Welliago & Lebez-LeVenning & Importance of Physical Fitness & o Component of Physical Street.
o Component of Hydronial Street.
o Component of House related Street.
o Component of wildows.
o Provincing Health Threet Stroogh Labergle Change
o Compay of Posturo Labergle 1 Discount and and DEGO Fundamentals of Anatomy & Physiology in Physiology Statement, Sports and VigoClothe Anatomy, Physiology & In Importance. It Effect of current on the Sectioning of Various Body Systems, Circulatory System, State 1 story System, Narro-Montala 31000033 and 23/08/27 and 23/09/23 1299(1) y. Dismontance & Sports Messing & Importance of Kilmensings & Dismontance in Physical Eds. & Sports. In Novembrie Law of Motion & in application in sparie. * on & ris application in sparse. (84000) 86/18/23 o Friedrice and its efficie to Sparis O record and careform to Sparse

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O Cristes of Red Peters

O Advantages & disadvantages of vestgle savereg

a Concept & advantages of Cortical Pleature

and Defermines - Xissak Sense - Plan Foot, Record Shookton, Lookines, Kyphonia, Born Engs and Socilions

o Contraction Measures for Passuad Defermines . 10/19/27 and 13/19/25 999900 Vogethering & Importance of Yage.

o Element of Yage.

o Introduction - Assists, Francyston, Medicales & Yogic Knyat.

o Yage for concessions & robust Assess (Submiss., Yathanna, Palmanas & Sta-9 18/11/01/23 a Relaxation Tablesques for improving unwestration Yequidite Trape & Lafanyla Assesse on provincing memory. — Technica, Vaponese, Paras Malaneses, Aetho Cinica. Debete Procedur, Desertin Australiane, Arth Chiliness, Securities

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Arth Maryundrasen

a Sauk Peer Tedassa, Arth Maryundrasen

a Debeter Francisco, Desertin & commandessens for Dispuspasson, Perchinettas

Perce Medicana, Arthur Maryundrasen

Perce Medicana, Arthur Maryundrasen

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Govt. Polytechnic Talwar Distt. Kangra H.P. 176096 **Lesson Plan**

Session: August 2025 -December 2025

Nam	ne of Teacher:-Me	enakshi Salni	Designation:-HOD (AS & H)		
Name of Lab/Workshop:- Communication Skills in Class/Branch:- 1st sem/Civil Engg.				Group:- G 1	
Sr. No.	Unit	Description of Practical job		Date	Remarks
		Orientation		7/8/25	
1	Unit 1: Listening Skills	recorded lectures napms interviews and speeches		14/8/25, 21/8/25	
2	Unit II: Introduction to Phonetics	Sounds: consonant, vowel, diphthongs, etc. transcription of words (IPA), syllable division,		21/8/25, 28/8/25	
_		2. Word stress, intonation, voice modulation etc.		28/08/25, 4/9/25	
	Unit III: Speaking Skills- Standard & formalspeech Role	Group discussion		4/9/25, 11/9/25	
		Oral presentations		11/9/25 , 18/9/225	
		Public speaking, business presentations etc		18/9/25, 25/09/25	
3		Conversation practice		25/9/25, 09/10/25	
		Role playing		09/10/25, 30/10/25,	
		Mock interviews		30/10/25, 13/11/25, 20/11/25	

Signature of HOD

Govt. Polytechnic Talwar Distt. Kangra H.P. 176096 Lesson Plan

	e of Teacher:-Me		Designation:-HOD (AS & H)	.5	
Name of Lab/Workshop:- Communication Skills in Class/Branch:- 1s sem/Civil Engg.				Group:- G 2	
Sr. No.	Unit	Description of Practical job		Date	Remarks
		Orientation		6/8/25	
1	Unit 1: Listening Skills	Listening Process and Practice: recorded lectures, poems, inte listening tests.		13/8/25, 20/8/25	
2	Unit II: Introduction to Phonetics	Sounds: consonant, vowel, diphthongs, etc. transcription of words (IPA), syllable division,		27/08/25 3/9/25,	
		2. Word stress, intonation, voice modulation etc.		10/9/25, 17/09/25	
		Group discussion		17/9/25, 24/9/25, 1/10/25	
		Oral presentations		1/10/25, 08/10/25	
	Unit III: Speaking Skills-	Public speaking, business presentations etc		8/10/25, 15/10/25	
3	Standard & formalspeech	Conversation practice		15/10/25, 22/10/25	
		Role playing		22/10/25, 29/10/25	
		Mock interviews		12/11/25, 19/11/25, 26/11/25	

Signature of Teacher