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

Session:August-2025-December-2026

Name of teacher: Canada Cl	Ugust-2025-December-2026
Name of Subjects As distant	Designation: Lecturer Mathematics
Name of Subject: Applied Mathematics-1	Class: Automobile Engg.

Sr. No	Month	Week	Date	Topic	Contents to be taught	
1		1st	1	. spice	Orientation	Remarks
2	1st		1	1	A-LI-V	
3	2nd		4,5,6,7,		concept	
4			ZIIO		of angles,measurement of angles in	
5			8		degrees, grades and radians and their	
6			-		conversions,	
7			11 12 1		T. Paties of Allied and - / John .	-
8	3rd		11,12,1		T-Ratios of Allied angles (without	
9	Aug.	F 25.56	3,14	1	proof), their applications (without	
10	Aug.		-		proof).	
11	4th		18,19,2			
12			CARROLD 18 - 27 TO 19 C	Trigonometry	S dies 5	
13			0,21,22	mgonometry		
14			_	1	their applications (without proof	
15					Product formulae /Transformation of	
16		5th	25,26,2		Product formulae (Transformation of	
17			7,28,29		product to sum,	
18					difference and vice versa)	
19			4 - 2 - 4 - 3 - 3 - 3 - 3			
20						
21		1st	1,2,3,4,		T- Ratios of multiple angles, sub-	
22		P 225	5		multiple angles	
23				37 37 37 37 37 37 37 37 37 37 37 37 37 3		
24						
25			8,9,10,1		ACCIONAL DE LA CONTRACTOR DEL CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR	
26		2nd	100000000000000000000000000000000000000	1 1	Definition of function ; Concept of limits	G
27			1, 12			Class Test 2
28						
29	Sept.					_
30	Sept.	5455301	15,16,1			
31		3rd	100 100		Standard limits	
32		1	7, 18,19		Transacta minica	
33						
34						
35		(0.925)	22,23,2			
36		4th	1 1 1 1 2 1 Y C 1 W T W 1 - C 1		Differentiatin by definition	
37			4, 25,26		of definition	
38	3		2		-	1
39 40	5th		29,30	Differential	Differentiatin of sum , product	
41					Differentiatin of and quotient function	1

42						
44 45 46		2nd	6,8,9,10		Differentiation of function of function	
47 48 49 50 51	Oct.	3rd	13,14,1 5, 16,17		Differentiation of trigonometric and inverse trigonometric function	Class Test 2
52 53 54 55 56		4th	1,22,23,2	*	Logarithmic differentiation	
57 58 59 60		5th	27,28,2 9, 30,31		Complex Numbers : Definition, real and imaginary parts of a complex number	
61 62 63 64		1st	3,4,6,7		polar and cartesian representation of a complex number and its conversion from one form to other	
65 66 67 68	Nave	2nd	10,11,1 2, 13,14		conjugate, modulus and amplitude ;addition, subtraction, multiplication and division f a complex number De-moivre's theorem and its	House Test
70 71 72 73	Nov.	3rd	17,18,1 9, 20,21	Algebra	applications Partial fractions : Definition of polynomial fractionproper and improper fraction. Resolve proper fraction into partial fraction with denominator containing non-repeated	
75 76		4th	24,25,2 6,27,28		Permutation and Combination	
80 81 82 83	Dec.	1st	1,2,3,4,5		Binomial theorem for positive integral index (expansion and general term); binomial theorem for any index (without proof) first and second	
84 85		2nd	8		approximationwith applications to Formula Revision	

SignatureOf Teacher

Applied Sciences

GOVT, POLYTECHNIC TALWAR, DISTT, KANGRA, H.P.

PLANNED THEORY SYLLABUS COVERAGE

Applied Sciences & Humanaties

Applied Physics - I (85103)

Theory: 56

h. 1st Sem. Automobile Engineering

d Periods:-

Practical:+ 28

Duration: -

1st August 2025 to 26th November 2025

01.08.2015

1	eds per unit	Topic	Detail of Contents	Instruction Reference	Additional study recommended	Remark
	10	UNIT I Physical world, Units and Measurements	Physical quantities: fundamental and derived. Units and systems of units (FPS, CGS and SI units), Dimensions and dimensional formulae of physical quantities. Principle of homogenesty of dimensions. Dimensional equations and their applications (conversion from one system of units to other, checking of dimensional equations and derivation of simple equations). Limitations of dimensional analysis. Errors in measurements (systematic and random), absolute error, relative error, error estimation and significant figures.	Appired Physics : Eagle Prakashan	Concepts of Physics View, by H.C. Verma (ii) Engineering Physics by De Bhatacharya and Poonum Tandan	
2	10	UNIT II Force and Motion	Scalar and Vector quantities – examples, representation of vector, types of vectors. Addition and Subtraction of Vectors. Triangle and Parallelogram law (Statementonly), 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, its applications such as recoil of ginn &reckets, Impulse and its applications. Circular motion, definition of angular displacement, angular velocity, angular acceleration, frequency, time period. Relation between linear and angular velocity, linear acceleration and angular acceleration (related numerical), Centropetal and Centrifugal forces with live examples. Expression and applications such as hanking of roads and bending of cyclist.	Applied Physics I Eagle Presession	Concepts of Physics Vort, by H.C. Verma In) Engineering Physics by Dr. Shutacharys and Phenium Fandan	
3	9	UNIT III Work Power and Energy	Work, 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 related plane for yough 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 hodies, transformation of energy (examples). Power and its units, power and work relationship, calculation of power (numerical problems).	Applied Physics I Eagle Prakashan	Concepts of Physics No. 1, by H.C. Verms III Engineering Physics by DK Bhatacharya acid Poprami Tandan	
4:	8	UNIT IV 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)	Applied Physics I Eagle Prakashan	Concepts of Physics Vol-1, by H.C. Verma (ii) Engineering Physics by DK Shatacharys and Poonam Tandan	
5	10	UNIT V Properties of Matter	Elasticity Definition of stress and strain, 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.	Applied Physics Eagle Prakashan	Concepts of Physics Vol-1, by H.C. Verma III Engineering Physics by DK Bhatacharva and Poonam Tandan	
6	9	UNIT VI Heat and Thermometry Thermometry Thermometry Thermometry Thermometer, Pyrometer) and their relationship. Types of Expansion of solids, liquids and gases, coefficient of linear, surface and coincid expansions and relation amongst them, Co-efficient of thermal coindactivity.		Appried Physics Leagle Prakashan	Concepts of Physics Vol-1, by H.C. Verma III Engineering Physics by DK Bhatacharya and Poonam Tandan	

Signature of Teacher

Vinay Kumar Guleria Lect Physics

Scinecne and Humanities

GOVT, POLYTECHNIC TALWAR PLANNED THEORY SYLLABUS COVERAGE

Applied Sciences & Humanaties Applied Chemistry | |

melti u Sen. Automobile & Gull Engg.

Characteris - Lat Aug. 2025 to 26th Nov. 2025

Foral Periods - Theory - Sil - Practical - 28

A	# No	Topic	Detail of Contents	Instruction Reference	Additional study recammended	Remarks
5	,	Atomic Structure	Fundamental particles of atoms: Electron, proton, neutron (Definitions) 1.2. Atomic Structure: Bohr's theory, successes and limitations expressed of cherge and radius to be omitted), and Hydrogen spectrum explanation based on Bohr's model of atom, 1.3 Heisenberg uncertainty principle. Quantum manthers: orbital concept, Shapes of s. p orbitals: difference between orbit and orbital 1.4 Pauli's exclusion procepte, Hund's rule of maximum multiplicity. Auffau rule, electronic configuration(Z=1 to 30).	Applied Chemistry Eagle Prakashan	NCERT Text book of Chemistry, Engineering Chemistry Cambridge universityBy Agarwal & Shikha, Understanding Chemistry by CNR Rad	
ž	7	Chemical Bonding And Solutions	2 (Concept of chemical bonding - cause of chemical bonding, types of bonds innic bonding (NaC) example) 2.2 Lewis concept of covalent bond (H2, F2, HB) beletionegativity. Difference between sigma and pie bond 2.3 Electron sea model of metallic bond. 2.4 Idea of solute, solvent and solution. 2.5 Metallic to express the concentration of solution-molarity (M - mole per litera, molality, mass percentage (Numerical excluded).	Applied Chemistry • Eagle Prakashan	NCERT Text book of Chemistry Engineering Chemistry Combridge university by Agarwal & Straha, Understanding Chemistry by CNR Rap	
(W)	10		3.1 Flectronic concept of oxidation, reduction and redux reactions. Delimnon to terms electrolytes, non-electrolytes with suitable examples, 3.2 Faradays times of electrolysis and simple numerical problems, 3.3 Industrial application of Electrolysis. • Electronetallingy • Electroplating • Electrolysis refining 3.5 Application of redox reactions in electrochemical cells • Primary cells dry cell, • Secondary cell • commercially used lead acid storage battery, 3.5 Introduction to Corrosion of metals • definition, types of corrosion (electrochemical), 112 liberation and O2 absorption mechanism of electrochemical corrosion, 3.6 Internal corrosion preventive measures — Purification, allowing and heat treatment and External corrosion preventive measures metal (anodic, cathodic) contings.	Applied Chemistry - Eagle Prakashon	NCERT Text back of Chemistry Engineering Chemistry Cambridge university By Agarwal & Shikho, Understanding Chemistry by CNR Rad	
4	2	Engineering Materials	4.1Natural occurrence of metals – minerals, ores of iron, aluminium and copper, gangue (matrix), flux, slag, metallurgy – brief account of general principles of metalkurgy(a). Crushing and grinding (b) Concentration of ore (Lexigation, Froth flotation, Magnetic separation) (c.) Extraction) Roasting and calcinations & smelting) (d) Refining (Electro refining, zone refining). 4.2 Estraction of – Iron from haematite ore using blast furnace along with reactions. 4.3 Alloys – definition, purposes of alloying, ferrous alloys (inversiteel) and non-ferrous(Simple Brass & Bronze, Nichrome, Outalumin, Magnetium) with suitable examples, properties an applications.	sage evasasnan	NCERT Text book of Chematry, Engineering Chemistry Caribridge universityBy Agarwal & Shikha, Upderstanding Chemistry by CNR Rao	
9	8	Water	5.1 Classification of soft and hard water based on soap test, talky causing water hardness, units of hardness (mg/L and ppm) and simple numerical on water hardness. Cause of poor lathering of soap in hard water, 5.2 Problems caused by the use of hard water in boiler (scale and sludge, foarning and priming, coerosion 5.3.1) water softening techniques- zeolite process ii). Municipal water treatment on brief only)— sedimentation, coagulation, tilitation, sterilization, 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.	Applied Chemistry Eagle Prakashan	NCERT Text book of Chemistry, Engineering Chemistry Tombridge univenity by Agacwar & Shikha, Understanding Chemistry by CNA Rasa	
6	7	Fuels	6.1 Definition of fuel and combustion of fact, classification of facts 6.2 calorific values (HCV and LCV), calculation of HCV and LCV using Dulong's formula Characteristics of good fact 6.3 Petrol and diesel - fuel ming (octane and cetane numbers) 6.4 Chemical composition, calorific values and applications of LPG, CNG, water gas, producer gas and biogas	Applied Chemistry Eagle Prasashin	NCERY Text book of Chemistry, Engineering Chemistry Cambridge universitySv Agar wat & Shikha, Understanding Chemistry by CNR Rap	
7	7	Lubrication	7.1Function and characteristic properties of good lubricant, 7.2 classification will examples 7.3 Lubrication mechanism – hydrodynamic and boundary lubrication 7.4 Physical properties (viscosity and viscosity index;18 oiliness, flash and Frapoint, cloud and pour point only) and chemical properties (coke number, total acid number, saponification value) of lubricants.	Applied Chemistry Eagle Prakashan	NCERT Test book of Chemistry, Engineering Chemistry Cambridge UniversityBy Aganwal & Shikha, Understanding Chemistry by CNR Ran	
В	3	Polymers	8.1 Monomer, home and co-polymers, degree of polymerization 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) 8.3 Vulcanization of rubber and properties of vulcanized rubber.	Applied Chemistry Eagle Prakashan	 NCERT Text book of Chemistry, Engineering Chemistry Cambridge university®s, Agarwal & Shikha, Understanding Chemistry by CNR Hao. 	

Signature of Teacher Night Katoch Lecturer Chemistry

HOO Applied Scinetne and Humanities

Govt. Polytechnic Talwar Distt. Kangra H.P. 176096 LESSON PLAN

Name of Teacher :- Parveen Kumari

Subject: Communication Skills in English Class: 1st Semester Auto. Engg.

Session: August 2025-December 2025

S. No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1		1st week	2		Orientation Programme	
2		2nd week	5,6		Orientation Programme	
3	August	3rd week	12,13	Communication: Theory and Practice	Basics of communication: Introduction, meaning and definition, process of communication etc.	
4		4th week	19,20,23	ir	Types of communication: formal and informal, verbal, non verbal and written , Barriers to effective communication	
5		5th week	26,27,30		7Cs for effective communication, Art of Effective Communication, Technical Communication	
6		1st week	2,3,6	Soft Skills for Professional	Introduction: Soft Skills and Hard Skills, Importance of soft Skills,	
7	2011	2nd week	9,10	Excellence	Life skills, Applying soft skills across cultures	Class Test-



-	September					
8		3rd week	16,17,20	Reading Comprehension	Short Stories: The Gift of the Magi by O. Henry	
9		4th week	23,24,27		Uncle Podger Hangs a Picture by Jerome K. Jerome Poetry: (1) Night of the Scorpion by Nissim Ezekiel	
10		1st week	30,1,4		(2) Stopping by Woods on a Snowy Evening by Robert Frost (3) Where the Mind is Without Fear by Rabindranath Tapage	
11	October	2nd week	8	Professional Writing Le	The Art of precis writing	
12		3rd week	14,15		The Art of precis writing	Class Test- 2 Diwali Vacation
13		4th Week	21,22,25		Letters: Business and Personal, Drafting e- mail	Distance Table 1
14		5th week	28,29,1		Drafting notices, minutes of a meeting etc.	
15		1st week	4		Glossary of administrative terms (English and Hindi), One-word substitution, Idioms and phrases	
16	November	2nd week	11,12,15	Vocabulary and Grammar	House Test	
17		3rd week	18,19,22		Parts of Speech, active and passive voice	/
18		4th week	25,26	12	Tenses, Punctuation	

Signature of HOD

Signature of Teacher PARVEEN KUMARI

Govt. Polytechnic Talwar (H.P.)

Lesson Plan

Session: Aug. 2025-Dec. 2025

Name of the teacher: Nemjel Choudhary	Designation: Sr. Lect (AS&H)	
Name of Subject: Introduction to IT Systems	Class: Ist Sem (Automobile Engg.)	

Sr. No.	Date	Name of the Chapter	Contents to be taught			
1	4,5,11,12 Aug. 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.			
2	18,19,25,26 Aug.	UNIT 2: Software Concepts	Software and its types, Operating System: Definition, types and function of Operating System, Booting the system (Cold and warm).			
3	1,2,8,9 Sept.	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.			
4	22,23,29,30 Sept.	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.			
5	6,13,27,28 Oct.	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.			
6	3,4,10,11 Nov.	UNIT 6: Information Security	Concept of online frauds, threats of online crime, virus attacks and use of antivirus			
7	17,18,24,25 Nov.	Revision				

Signature of the

HOD (AS&H)

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

		(Labs/Workshop)		
Section.	e of Teacher:-Gaurav Puwari	Designation:-Lecturer Auto Engg.		
Nam Grap	ame of Lab/Workshop:- Engineering Class/Branch:- 1st sem/Automobile Engg.		Group:- G 1 & G2	
Sr. No	o. Description of Practical job		Date	Remarks
1	squares/drafter. Write alphabets only)	and numerical in 7:4 scale (Vertical	1/8,7/8,8/8,	Remarks
2	Draw some problems on Engineer	ring Plain and diagonal scale	21/8,22/8, 28/8	
3	Draw some problems on orthogra method of projection having plain and slots.	29/8. 4/9,5/9,		
4	Draw some problems on Isometric and slanting and cylindrical surfac using natural scale.	c view of simple objects having plain e (e.g. Cube, Cone and cylinder etc.) by	18/9,19/9, 25/9, 26/9	
5	Draw free hand sketches/ conventional representation of machine elements in sketch book such as thread profiles, nuts, bolts, studs, set screws, washers, Locking arrangements.		3/10. 9/10, 10/10, 23/10, 24/10	
6	Problem based Learning: Given the objects with few missing lines, the corresponding objects, complete to sketch book.	e orthographic views of at least three student will try to imagine the he views and draw these views in	30/10,31/10	
7	Draw basic 2D entities like: Rectan	gle, Rhombus, Polygon using AutoCAD.	- A ST THE ST	
8	Draw basic 2D entities like: Circles,	Arcs, circular using AutoCAD.	13/11	
9		and rectangular array using AutoCAD.	14/11	
10	Draw blocks of 2D entities comprise Polygon, Circles, Arcs, circular and re AutoCAD.		14/11	
1	Draw basic branch specific compone		20/11	
2	Draw complex branch specific comp	3	21/11	

Signature of Veacher

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 Auto Engg.	

Sr.N	Description of Practicals	Date		
0.	AND THE RESERVE OF THE PARTY OF	Group-1	Group-2	
1	To identify the various hardware components of computer system.	8-22/8	13-14/8	
2	To assemble hardware components of Computer System.	23-29/8	20-21/8	
3	To install Windows OS on computer system.	30/8 &5/9	27-28/8	
4	To study the various features offered on the desktop, creating new folder and new file on the desktop.	6-12/9	10-11/9	
5	To work on different web browsers(google chrome, internet explorer), setting up default homepage on browser and study the various settings available.	20-26/9	17-18/9	
6	To open search engines (google and yahoo) and search different information using the search engines. Creating an e-mail Account.	37/9 & 3/10	24-25/9	
7	Visit various e-governance/digital India Portals and understanding the services offered.	4-10/10	8-9/10	
	Revision	24/10	15 & 22/10	
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.	25-31/11	23-30/10	
9	Formatting a document, Creating and editing tables, mail-merge.	1-7/11	5-12/11	
10	Working on MS – EXCEL- Creating a worksheet in Excel. Copy, Move and Merge the cells and Use various Formatting features.	14-15/11	13-19/11	
	Using formula and functions prepare worksheet for storing subject marks of ten students and perform the following:			
n l	Calculate the student wise total and average.	21-22/11	20-26/11	
	Calculate the subject wise total and average.			
	Calculate the overall percentage and also ndividual percentage of the student.			
	Create a chart for the above.		1	

HOD

Signature

Govt. Polytechnic Talwar

Lesson Planning (Practical)

ech:

Automobile Engineering

Semester:

First

object:

App. Physics I

Session:

August 2025 to Sept. 2025

Teacher:

Laboratory:

Physics Lab

No.	Description of Practical	Refrence for procedure / writeup	Likely Dates	Actual Dates	Signature
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.	Applied Physics I By RA BANWAT or Comprehensive Practical Physic	First week of August		
2	To determine diameter of a wire, a solid ball and thickness of cardboard using a screw gauge.	Applied Physic I By RA BANWAT or Comprehensive Practical Physic	Second Week Of August		
3	To determine radius of curvature of a convex and a concave mirror/surface using a spherometer.	Applied Physic I By RA BANWAT or Comprehensive Practical Physic	Fourth week of August		
4	To verify triangle and parallelogram law of forces.	Applied Physic I By RA BANWAT or Comprehensive Practical Physic	Second Week of September		
5	To determine force constant of a spring using Hook's Law.	Applied Physic I By RA BANWAT or Comprehensive Practical Physic	Third Week of September		
6	To verify law of conservation of mechanical energy (PE to KE).	Applied Physic I By RA BANWAT	fourth Week of September		
7	To find the moment of inertia of a flywheel.	Applied Physic By RA BANWAT	First week of October		
8	To determine atmospheric pressure at a place using Fortin's barometer.	Applied Physic By RA BANWAT	Second week of October		

RECOMMENDED BOOKS -Text book of Physics, N.C.E.R.T., App. Physics I By RA Banwat, Comprehensive Practical Physics.

Signature of Subject Teacher.

Signature of HOD.

GOVT. POLYTECHNIC TALWAR PLANNING AND COVERAGE OF PRACTICALS

\	PARTMENT :- APPLIED SCIENCES AND HUMA	LABORATORY:	CHEMISTRY LAB				
1	M & BRANCH :- FIRST AUTOMOBILE AND CIVIL ENGG.		SUBJCET:-	APPLIED CHEMISTRY (BS109)			
ħ		Availability of					
Ø	Details of Practicals	Equipment Setups	STD Ref Write up	Likely Dates	Actual dates	Signature	
Preparation of standard solution of oxalic acid.			Applied Chemistry Laboratory Practices, Vol. I & Vol-II, NITTTR	Second week of August 2025			
titr	determine strength of given sodium hydroxide solution by ating against standard oxalic acid solution using enolphthalem indicator.		Chemistry for Engineers, By Agnibotri, Rajesh	Fourth week of August 2025			
	perimental verification of Faraday's first law of Electrolysis ing Copper sulphate solution and Copper electrodes.		Engineering Chemistry by Jain & Jain	Second week of September 2025			
	dometric estimation of Copper in the given Copper ore using andard Hypo solution.		Applied Chemistry Laboratory Practices, Vol. 1 & Vol.1I, NETTTR	Fourth week of September 2025			
	estimate total alkalinity of given water sample by titrating it painst standard Sulphuric acid solution.		Chemistry for Engineers.By Agnihotri,Rajesh	Third week of October 2025			
Te	o estimate moisture in given coal sample gravimetrically		entitioner until gesteht until	Fifth week of October 2025			
Ti	o estimate ash in given coal sample gravimetrically.		Applied Chemistry Laboratory Practices Vol- I & Vol-II, NITTTR	Second Week of November 2025			
1.5%	o determine viscosity of given lubricating oil by Redwood iscometer		Laboratory Fractions Vol-	Fourth week of November 2025			
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Signature of Teacher

Nidbi Katoch Lecturer Chemistry

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Applied Scinecne and Humanities

Govt. Polytechnic Talwar (Deptt. Of Applied Sciences)

Lesson Plan

artist (of teacher: San, of Sobject: Spor	rts and Your				0-2025-December-2006 Designation: Lecturer Mathematics		
No.		Week	Dates(G1)	Mark and a		Class Automobile Enga		
	ino.iii	-	Dates(G1)	Dates(G2)	Topic	Contents to be taught		
1		144	6			2:00,000		
7						Orientation		
١		2nd 13	13		Introduction to Physical Education	Meaning & definition of Physical Education. o Aims & Objectives of Physical Education.		
2	August		- W			a Changing trends in Physical Education.		
3		3rd	20	23	Olympic Movement	Aricient & Modern Olympics (Summer & Wincer.) o Olympic Symbols, Ideals, Objectives & Values, o Awards and Honours in the field of Sports in India (Dronacharya Award, Arjuna Award Ohayanchand Award, Rajiv Gandhi Shel Ratna Award etc.).		
4		4th	27	30	Physical Fitness, Wellness & Lifestyle	Meaning & Importance of Physical Fitness & Wellness. o Components of Physical fitness. o Components of Health related fitness. o Components of wellness. o Preventing Health Threat through Lifestyle Change. o Concept of Positive Lifestyle		
5		1st	3	6	Fundamentals of Anatomy & Physiology in Physical Education, Sports and Yoga	Define Anatomy, Physiology & Its Importance, a Effect of exercise on the functioning of Vario Body Systems, {Orculatory System, Respiratory System, Neuro-Muscular System etc.).		
6		2nd	10		Gnesiology, Momechanics & Sports	Meaning & Importance of Kinesiology & Biomechanics in Physical Edu. & Sports. a Newton's Law of Motion & its application in sports, a Priction and its effects in Sports.		
,	September	3rd	17	20	Postures	Meaning and Concept of Postures, o Causes of Bad Posture: o Advantages & disadvantages of weight training, o Concept & advantages of Correct Posture. o Common Postural Deformities Knock Knee; Flat Foot; Round Shoulders; Lordosis, Ky- phosis, Bow Legs and Scolicula. o Corrective Measures for Postural Deformities.		
		4th	24	27	Yoga	Meaning & Importance of Yogs. o Elements of Yogs. o introduction - Asanas, Franayama, Meditation & Yogk Kriyas o Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Sha-shankasana). o Relaxation Techniques for improving concentration Yognida		
	October	1st	r		Yoga & Ufestyle	Asanas as preventive measures. o Hypertension: Tadasana, Vajrasana, Pavan Muktasana, Ardh Chekrasana, Shujangasana, Sharasana. o Obesity: Procedure, Benefits & contraindications for Vajrasana. Hastasana, Trikonasana, Ardh Matsyendrasana. o Back Pain: Tadasana, Ardh Matsyendrasana, Vakrasana, Shalabhasana, Shujangasana. o Diabetes: Procedure, Benefits & contraindications for Shujangasana, Paschimottasana, Pavan Muktasana, Ardh Matsyendrasana. Asthema: Procedure, Benefits & contraindications for Sukhasana, Ghakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottasana, Matsyasana.		
9		2nd	8		Training and Planning in	Meaning of Training, o Warming up and limbering down, o Skill, Technique & Style, o Meaning and Objectives of Planning, o Tournament – Knock-Out, League/Round Robin & Combination		
	1	ard	15	18		Definition & Importance of Psychology in Physical Edu. & Sports, o Define & Differentiate Between Growth & Development o Adolescent Problems & Their Management, o Emotion: Concept, Type & Controlling of emotions, o Meaning, Concept & Types of Aggressions in Sport		
11	1		-		Psychology & Sports	o Psychological benefits of exercise, o Arolety & Fear and its effects on Sports Performance - Modutation, its type & techniques, o Understanding Stress & Coping Strategies.		
12	-	4th	22	25		Meaning and Concept of Doping, o Prohibited Substances & Methods, o Side Effects of		
13		Sth	29			Meaning and Concept of Doping, o Prontotted Substances & Methods, o Side Effects of Prohibited Substances		
14		1st		1	Doping			
15		2nd	12	15				
	November	3rd	19	22		First Aid - Definition, Aims & Objectives. o Sports injuries: Classification, Causes & Prevention. Management of injuries. Soft Tissue injuries and Bone & Joint Injuries		
16		4th	26	29	Sports Medicine	The state of the s		
17		****	-	49		Following sub topics related to any one Game/Sport of choice of student out of: Athletics.		
18	December	258	3	¥	Sports/Games	Following sub-depts related to any one Game/Sport of Choice of Student out of Athletics, Badminton, Basketball, Chess, Cricket, Kabadid, Lawn Tennis, Swimming, Table Tennis, Volloybull, Yoga etc. o History of the Game/Sport. o Latest General Rules of the Game/Sport.		

SignatureOf Teacher

Applied Sciences

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

Se:	Session: August2025 -December 202			
Name of Teacher:- Parveen Kumari	Designation: Lectures (ASSA)			
	Designation: lactures (account			

		Designation:-Lecturer (AS&H)	2025		
Name of Lab :- Communication Skills in English -Lab.		Class/Branch:- 1st semester/ Auto Engg.	Group:- G 1 and G 2		
Sr. No	Description of Practical job				
1	Listening Skills- Listening Proce recorded lectures, poems, interv	Date (G1) 12/08/2025 19/08/2025	Date (G2) 11/8/2025 18/8/2025	Remark	
2	Introduction to Phonetics- (1): diphthongs,etc. transcription of	26/08/2025 2/09/2025 9/09/2025	25/08/2025 01/09/2025 8/09/2025		
	(2) Word stress, intonation, voice	16/09/2025 23/09/2025	15/09/2025 22/09/2025		
	Speaking Skills: Standard and fo	30/09/2025 14/10/2025	29/09/2025 6/10/2025		
	Oral Presentations, Public speak	21/10/2025	13/10/2025		
3			28/10/2025 4/11/2025	27/10/2025 3/11/2025	
	Role playing	04/11/2025 18/11/2025	03/11/2025 17/11/2025		
	Mock Interviews	18/11/2025 25/11/2025	17/11/2025 24/11/2025		

PARVEEN KOMAR)

Signature of HOD