LESSON PLAN

Program Name	DIPLOMA IN Eltx. & Comm. Engg.
Course/Subject Name	Mathematics-I
Course/Subject Code	BS 101
Course/Subject Coordinator Name	Dr. Reena Kumari

S.No.	Subject Name		Marks in evaluation scheme				
		Study scheme	1 2 2	Internal Assessment		Assessment	
	×	(Hrs/Week)	Theory	Practical	Theory	Practical	
1.	Matnematics-I	3(Th)+2(DCS)	40		60	-	
Refere	nce books:		K	3.S. Grewal, F Channa Publis 2007.	Higher Engine shers, New D	eering Mathematics, elhi, 40th Edition,	
			A		netry, Addiso	, Calculus and n Wesley, 9th	
	,		۲	Reena Garg, Khanna Publis Ed. 2018)	Engineering shing House,	Mathematics, New Delhi (Revise	
			L	/. Sundaram, akshminaray 6/e., Vikas Pu	anan, Engin	amanian, K.A. eering Mathematics se	
			(5) Reena Garg & Chandrika Prasad Adva Engineering Mathematics, Khanna Pub House, New Delhi.			Prasad Advanced Khanna Publishing	

Course Outcomes: After the completion of the course, the students will be able to learn:

CO1	Acquire necessary background in Trigonometry to appreciate the importance of the geometric study as well as for the calculation and the mathematical analysis.
CO2	The ability to find the effects of changing conditions on a system.
CO3	Complex numbers enter into studies of physical phenomena in ways that most people cannot imagine.
CO4	The partial fraction decomposition lies in the fact that it provides an algorithm for computing the anti-derivative of a rational function.

Teaching Plan:

Lecture No.	Name of topic	Proposed date	Actual date	Remarks
1	Trigonometry: Concept of angles	11/08/2025		
2	Concept of angles	12/08/2025		
3	Measurement of angles in degrees, grades and radians and their conversions	13/08/2025		
4	Measurement of angles in degrees, grades and radians and their conversions	14/08/2025		
5	Measurement of angles in degrees, grades and radians and their conversions	18/08/2025		
6	T-Ratios of Allied angles	19/08/2025		
7	T-Ratios of Allied angles	20/08/2025		
8	Sum, difference formulae and their applications	21/08/2025		
9	Sum, difference formulae and their applications	22/08/2025		
10	Sum, difference formulae and their applications	25/08/2025		
11	Product formulae (Transformation of product to sum, difference and vice versa)	26/08/2025	7,67.5	
12	Product formulae (Transformation of product to sum, difference and vice versa)	27/08/2025	200	of the
13	Product formulae (Transformation of product to sum, difference and vice versa)	28/08/2025		
14	T- Ratios of multiple angles, sub-multiple angles (2A, 3A, A/2)	29/08/2025	0.1	عر الوالة ا
15	T- Ratios of multiple angles, sub-multiple angles (2A, 3A, A/2)	01/09/2025	1	
16	Graph of sin x	02/09/2025		
17	Graph of cos x	03/09/2025		- 4
18	Differential Calculus: Definition of function	04/09/2025		6
19	Definition of function	05/09/2025	1 1	
20	Concept of limits	08/09/2025	ha d	15.4
21	Concept of limits	09/09/2025		- Luk
24	Four standard limits, $\frac{x^n - a^n}{x - a}$, $\frac{\sin x}{x}$, $(1 + x)^{\frac{1}{x}}$, $\frac{a^x - 1}{x}$	10/09/2025		
22	Class Test-I	11/09/2025		9 72.44
24	Four standard limits, $\frac{x^n - a^n}{x - a}$, $\frac{\sin x}{x}$, $(1 + x)^{\frac{1}{x}}$, $\frac{a^x - 1}{x}$	12/09/2025		19
25	Differentiation by definition of sinx, cosx, tanx	15/09/2025	KELES.	
26	Differentiation by definition of xn, ex	16/09/2025	255	
27	Differentiation formulae	17/09/2025	7 20 m	

28	Differentiation of sum and difference of functions	18/09/2025	
29	Differentiation of sum and difference of functions		
30	Differentiation of product	19/09/2025	
31	Differentiation of product and quotient of functions	22/09/2025	
	Differentiation of product and quotient of functions	23/09/2025	
32	Differentiation of function of a function	24/09/2025	
33	Differentiation of function of a function	25/09/2025	
34	Differentiation of trigonometric and inverse trigonometric	26/09/2025	
35	Terrettoris	20/09/2023	
30	Differentiation of trigonometric and inverse trigonometric functions	29/09/2025	
36	Differentiation of trigonometric and inverse trigonometric functions	30/09/2025	
37	Logarithmic differentiation	01/10/2025	
38	Logarithmic differentiation	03/10/2025	
39	Complex Numbers: Definition, real and imaginary parts of a complex number, conjugate of a complex number	06/10/2025	
40	Addition and Subtraction of complex numbers	08/10/2025	e\$514m
41	Multiplication and Division of complex numbers	09/10/2025	
42	Multiplication and Division of complex numbers	13/10/2025	<u> </u>
43	Class Test-II	14/10/2025	5/6
44	Modulus and amplitude of a complex number	15/10/2025	
45	Polar and Cartesian, representation of a complex number and its conversion from one form to other	21/10/2025	
46	Polar and Cartesian, representation of a complex number and its conversion from one form to other	22/10/2025	de la
47	De-movier's theorem, its application	24/10/2025	Fil
48	Partial fractions: Definition of polynomial fraction proper & improper fractions and definition of partial fractions	27/10/2025	
49	To resolve proper fraction into partial fraction with denominator containing non-repeated linear factors	28/10/2025	
50	To resolve proper fraction into partial fraction with denominator containing repeated linear factors	29/10/2025	34
51	To resolve proper fraction into partial fraction with denominator containing repeated and non repeated linear factors	30/10/2025	
52	Permutations and Combinations: Value of P(n,r) and C(n,r)	31/10/2025	
53	Value of P(n,r) and C(n,r)	03/11/2025	
54	Value of P(n,r) and C(n,r)	04/11/2025	7
55	Binomial theorem: Binomial theorem for positive integral index (expansion and general form)	06/11/2025	
56	Binomial theorem for positive integral index (general form)	07/11/2025	
57	Binomial theorem for positive integral index (general form)	13/11/2025	
58	Binomial theorem for any index	14/11/2025	

59	Binomial theorem for any index	17/11/2025	* 1
60	First and second binomial approximation with applications to engineering problems	18/11/2025	
61	First and second binomial approximation with applications to engineering problems	19/11/2025	
62	DCS on the topic covered in previous classes	20/11/2025	
63	DCS on the topic covered in previous classes	21/11/2025	
64	DCS on the topic covered in previous classes	24/11/2025	
65	DCS on the topic covered in previous classes	25/11/2025	
66	DCS on the topic covered in previous classes	26/11/2025	

Assignments:

Assignme nt serial	Contents of syllabus covered	Proposed week/date	Actual date	Remarks
A-1	Trigonometry & Differential Calculus	3rd week of Sept. 2025	2 19 48-48 ²	
A-2	Differential Calculus & Algebra	Ist week of Nov. 2025		447.1

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed week/date	Actual date	Remarks
CT-I	30% of the syllabus	2 nd week of Sept. 2025		1 1
CT-II	Next 30% of the syllabus	3 th week of Oct. 2025	- 1	7 3
House Test	80% of the syllabus	2 nd week of Nov. 2025		427

Signature of HOD

Signature of Teacher

Dr. Reens Kumar

LESSON PLAN

Program Name	Eltx & Comm. Engg
Course/Subject Name	Applied Physics-I
ourse/Subject Code BS-103 & BS-106	
Course/Subject Coordinator Name	Pritam Singh Dogra

Evaluation scheme

S.No.	Subject Name Study scheme		Marks in evaluation scheme				
			Internal Assessment		External A	ssessment	
		(Hrs/Week)	Theory	Practical	Theory	Practical	
1.	Applied physics-I & Applied Physics-I lab	TH [3+1(DCS)] + 2 (Lab)	40	40	60	60	
Referen	nce books	L	,(i)		ntal of Physics Resnick/Walke		
			(ii)	New simp	lified Physics	by S.L.Arora	
			(iii)			and Vol. II, TTTI aw Hill, Delhi	
5			(iv)			DK Bhattacharya & I University Press, New	

Course Outcomes: After the completion of the course the student will be able to

COI	Understand the importance of applied physics in describing physical phenomena.
CO2	Employ the knowledge of units and dimensions for various types of measurements.
CO3	Understand the importance of various types of errors while doing measurements.
CO4	Understand the basic forces present in the nature and their effects in daily life.
CO5	Understand energy, work, power and their importance.
CO6	Understand the basic phenomena like elasticity, surface tension, pressure etc.
CO7	Differentiate between heat and temperature and their measurements.

Teaching Plan:

Lecture No.	Name of topic	Proposed date	Action	Remarks
1	Unit-1 Physical world, Units & Dimensions: Physical quantities - fundamental and derived,	11.8.74		
2	Units & systems of units (FPS, CGS and SI units)	12.8.25		
3-4	Dimensions and dimensional formulae of physical quantities	114.8.7		
5	Principle of homogeneity of dimensions	21.8.45	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
6	Dimensional equations and their applications, conversion from one system of units to other,	22.8.15		
7	checking of dimensional equations and derivation of simple equations)	8.9.15		
8	Limitations of dimensional analysis	9.9.25	3.10	
9	Error in measurement (systematic & random), absolute error, relative error, error estimation and significant figures	11.9.25	10 S	
10	Unit-2 Force &motion: Scalar and vector quantities - examples, representation of vector, types of vectors	2.9.25	Hart of the second	
11-12	Addition and Subtraction of Vectors, Triangle and Parallelogram law (Statement only),	15.9.25	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
13	Scalar and Vector Product.	16.9.25		
14	Resolution of Vectors and its application to inclined plane (Rectangular components) and lawn roller	18.9.25		

		N 10 10 10 10 10 10 10 10 10 10 10 10 10
15-16	Force, Momentum, Statement and Derivation of Conservation of linear momentum, its applications such as recoil of gun &	
	rocket	19.9.25
17	Impulse and its Applications	20-9-8
18	Impulse and its Applications Circular motion, definition of angular displacement, angular	
10	velocity, angular acceleration, frequency, time period	22-9-8
19	Relation between linear and angular velocity, linear acceleration	
1.2	and angular acceleration	23-9-25
	(related numerical)	00 / 0
20	Centripetal and centrifugal forces with live examples such as	3
	banking of roads and bending of cyclist.	25.9.5
21	Unit-3 Work, Power & Energy	
	Work: Concept and units, examples of zero work, positive work	26.9.25
	and negative work	- 0 1 3
22	Friction: concept, types, laws of limiting friction, Coefficient of	6-10-25
	friction, methods for reducing friction and its Engineering	D- 10- 2
	Applications	
23	Work done in moving an object on horizontal and inclined plane	7-10-28
	for rough and plane surfaces and related applications	
24	Energy and its units: Kinetic energy and gravitational potential	9.10-35
25.26	energy with examples and their derivation Mechanical energy, conservation of mechanical energy for	10
25-26	freely falling bodies, transformation of energy(examples)	13.10.15
27	Power and its units, power and work relationship, calculation of	11. 10.15
/	power (numerical problems)	14.10.25
28	Unit-4 Rotational motion	28.10.25
	Translational and rotational motions with examples	26.10.6
29	Definition of torque and angular momentum and their examples	22-10-15
30	Conservation of angular momentum (quantitative) and its applications	23.1015
31	Moment of inertia and its physical significance, radius of gyration for rigid body,	था । १० । ४
32	Theorems of parallel and perpendicular axes (statements only), Moment of inertia of rod, disc, ring and sphere(hollow and solid) : (Formulae only)	27.10.25
33	Unit-5 Properties of matter Elasticity: definition of stress and strain, different types of	28.1025
	modulii of elasticity, Hooke's law, significance of stress strain curve	29.10.25
34	The state of the s	F 1.10.53
35	Pressure: definition, units, atmospheric pressure, gauge pressure, absolute pressure, Fortin's barometer and its applications	36.10.25
36	Surface tension: concept, units, cohesive and adhesive forces, angle of contact	3.18.25
37	Ascent Formula (No derivation), applications of surface tension,	4.11.25
38	effect of temperature and impurity on surface tension	6.11.25
39	Unit-6 Thermometry: Concept of heat and temperature	7.11.15
40	Modes of transfer of heat (Conduction, convection and radiation with examples)	10.11.8
41	scales of temperature and their relationship	11.11.25
42	Types of Thermometer (Mercury Thermometer, Bimetallic	13.11.15
43	Platinum resistance thermometer and pyrometer and their uses	14 . 11-25
44-45	Expansion of solids, liquids and gases, coefficient of linear, surface and cubical expansions and relation amongst them,	17.11.25
46	Co-efficient of thermal conductivity	18-11-25

Assignments:

Assignment serial	Contents of syllabus covered	Proposed date	Actual date	Remarks
A-1	Physical world, Units & dimensions, force and motion	09.9.25		
A-2	Work, power, Energy and rotational motion	14-10-25		
A-3	Properties of matter and thermometry	07-11-25		

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed date	Actual date	Remarks
CT-I	30% of the syllabus	05.9.25		
CT-II	Next 30% of the syllabus	2-2-10-25		
House Test	80% of the syllabus	06.11.25		

Lab Plan:

Exp. No.	Name of experiment	Propositiate	Actual	Remarks	
L.p. 150	, same of eap-	G-1/42	G-1/42		
1	and a beaker using a Vernier Caliper and find volume of	13.8.25 4	14		
2	To Determine diameter of wire, a solid ball and thickness of a cardboard using a screw gauge.	29.8.25	- F		
3	To determine radius of curvature of a convex and concave mirror/surface using a spherometer.	27.8.25 & 5.9.25	- 16 18		
4	To verify triangle and parallelogram law of forces.	12.9.25	- 3		
5	To determine force constant of spring using Hooke's law	19.9.25			
6	To verify law of conservation of Mechanical energy (PE to				
	KE).	26-9.25			
7	To find the Moment of Inertia of a flywheel.	3.10-25			
8	To measure room temperature and temperature of a hot bath using mercury thermometer and convert it into different scales.	17.10-25			

(Signature of Teacher)

(Signature of HOD)

LESSON PLAN

Program Name	Diploma (Eltx.&Comm.Engg.)
Course/Subject Name	Applied Chemistry
Course/Subject Code	Applied Chemistry: BS105 (Th) & BS109 (Pr)
Course/Subject Coordinator Name	Swati Bhardwaj

Evaluation scheme:

SN	Subject Name		Marks in evaluation scheme				
	*	Study Scheme	Internal Assessment		External Assessment		
		(Hrs/Week)	Theory	Practical	Theory	Practical	
1	Applied Chemistry Theory + Applied Chemistry Practical	4 Th (Including DCS) + 4 Pr (G1: 2 G2: 2 hrs)	40	40	60	60	
		 Dr. Vairam, S., Engineering Chemistry, Wiley India Pvt. Ltd., New Delhi, 2013 S.C.Ahuja, Applied Chemistry, Eagle Prakashan TextBook Of Chemistry for Class XI & XII (Part-I, Part-II); NCERT., Delhi, 2017-18 					
REFERENCE BOOKS							
			பு. Dr.G.Hugar & Prof. A.N.Pathak Applied Chemistry Laboratory Practices, NITTTR				
			6. Agnihotri, Rajesh, Chemistry for EngineersWiley Ind Pvt.Ltd.,2014				
	i.			s Applied Chemis by Dr Vibha Sha			

Course Outcomes: After the completion of the course the student will be able to:

C01	Understand the classification and general properties of engineering materials such as metals, alloys and refractory using knowledge of chemical bonding.
CO2	Understand and assess the suitability of water source for domestic and industrial application, effluent and minimize water pollution.
CO3	Understand how to analyze engineering materials, their properties and applications.
CO4	Understand the use of fuel and lubricants suitable for economical industrial processing eco-friendly products
CO5	Understand construction and mechanism efficiency of electrochemical cells.
C06	Understand the corrosion and develop prevention techniques.



Teaching Plan

ect.	Name of topic	Proposed Date	Actual Date	Remarks
	Unit-1: Atomic Structure: Fundamental particles (electron, proton, neutron), Bohr's theory (Postulates)	11.08.2025		
2	Bohr's theory (successes & limitations).	14.08.2025		
3	Heisenberg uncertainty principle, Hydrogen spectrum.	14.08.2025		
4	Orbital concept, difference between orbit and orbital, DCS	18.08.2025		
5	Shapes of s and p orbitals.	21.08.2025		
6	Quantum numbers.	22.08.2025		1
7	Pauli's exclusion principle, Hund's rule of maximum multiplicity, Aufbau rule.	23.08.2025		Šė.
8	Electronic configuration(Z=1 to 30) & DCS	25.08.2025		171 6
9	Unit-2. Chemical Bonding and Solutions: Concept of chemical bonding – cause of chemical bonding, types of bonds: ionic bonding (NaCl example), Lewis concept of covalent bond (H2, F2, HF). Electronegativity.	28.08.2025		
10	Difference between sigma and pie bond.	28.08.2025		
11	Electron sea model of metallic bond. Idea of solute, solvent and solution.	29.08.2025	2 7	
12	Methods to express concentration of solution: Molarity, molality, mass percentage & DCS	30-08-2025		
13	Unit-3 Electrochemistry and Corrosion: Faraday's laws of electrolysis.	01.09.2025		
14	Simple numerical problems on Faraday's laws of electrolysis.	04.09.2025		
15	Industrial application of Electrolysis - • Electrometallurgy	04.09.2025		
16	Electroplating, Electrolytic refining	05.09.2025		
17	Electrolytic refining	06.09.2025		
18	PrimaryApplication of redox reactions in electrochemical cells – dry cell.Secondary cell - commercially used lead acid storage battery & DCS	08.09.2025		
19	Class test I	11.09.2025		
20	a sector definition types	12.09.2025		



38	Class test II	13.10.2025		
3/	drinking and cooking purposes from any water sources and Indian standard specification of drinking water & DCS	09.10.2020		
37	Properties of water used for human consumption for	09.10.2025		
36	ii). Municipal water treatment (in brief only) – sedimentation, coagulation, filtration, sterilization	09.10.2025		
35	(scale and sludge, foaming and priming, corrosion.)& DCS water softening techniques- i) zeolite process	06.10.2025		
34	Problems caused by the use of hard water in boilers	04.10.2025		
	Classification of soft and hard water based on soap test, salts causing water hardness, Cause of poor lathering of soap in hard water, units of hardness(mg/L and ppm), simple numerical on water hardness			
33	Unit-5 Water:	03.10.2025		
32	Nichrome, Duralumin, Magnelium with properties and applications. & DCS	29.09.2025		
	properties and applications	1 1 1	ily eller i	
31	Ferrous alloys (Invar steel), Non-ferrous alloys (Simple Brass & Bronzes) with	27.09.2026	11 12 14	
30	Alloys – definition, purposes of alloying.	26.09.2026		
	furnace along with reactions.	04.00.5004		
29	Extraction of - iron from haematite ore using a blast	25.09.2025	Maria de estado I	
28	(d) Refining (Electrorefining, zone refining)& DCS.	25.09.2025		
27	(c) Extraction(Roasting and calcinations & smelting).	22.09.2025	3-31-14-1-	
	ore (Levigation), Froth flotation, Magnetic separation.			
26	metallurgy – brief account of general principles of metallurgy(a). Crushing and grinding (b) Concentration of	20.09.2025		
	Natural occurrence of metals – minerals, ores of iron, aluminum and copper, gangue (matrix), flux, slag,			
25	Unit-4 Engineering Materials:	19.09.2025		1
24	Cathodic coating & DCS	18.09.2025		+
23	External corrosion preventive measures: metal anodic coating.	18.09.2025		
	Internal corrosion preventive measures - Purification, alloying and heat treatment	15.09.2025		
	H ₂ liberation and O ₂ absorption mechanism of electrochemical corrosion	12.09.2025		



Assignments:

Assignments	Contents of syllabus covered	Proposed Date slot	Actual Date	Remarks
A-1	Atomic Structure, Chemical Bonding and Solutions, Electrochemistry and Corrosion and Engineering Materials	11.09.2025 / 26.10.2025		
A-2	Whole syllabus: Solved guess question paper	30.10.2025 /25.11.2025		

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed Date	Actual Date	Remarks
CT-I	30% of the syllabus	11.09.2025		
CT-II	Next 30% of the syllabus	13.10.2025		
House Test	80% of the syllabus	2 nd week of November 2025		

Signature of Teacher
(Swati Bhardway)

Lab Plan (Syllabus Coverage Practical: Applied Chemistry)

Exp. No.	Name of experiment	Proposed Date (G1 & G2)	Actual Date (G1 & G2)	Remarks
1	Preparation of standard solution of oxalic acid.	11-08-2025& 12-08-2025		
2	To determine strength of solution by titrating against standard oxalic acid solution using phenolphthalein as indicator.	18-08-2025& 19-08-2025		
3	Experimental verification of Faraday's first law of electrolysis using copper sulfate solution and copper electrode. OR To construct and measure emf of ElectroChemical Cell(Daniel cell)	25-08-2025& 26-08-2025		
4 .	Iodometric estimation of Copper in the given Copper ore using standard Hypo solution. OR To determine the percentage of Iron present in the given Haernatite ore by standard Potassium Permanganate solution.	08-09-2025& 09-09-2025		
5	Estimation of total hardness of water using standard EDTA solution and using Eriochrome black-T (solochrome black-T) indicator and approximately neutral buffer solution (pH range 7-11). OR To estimate total alkalinity of a given water sample by titrating it against standard Sulphuric acid.			
6	To estimate moisture in a given coal sample gravimetrically.	22-09-2025& 23-09-2025		
7	To estimate ash in a given coal sample gravimetrically.	13-10-2025& 14-10-2025		
8.	To determine viscosity of given lubricating oil by Redwood viscometer.	27-10-2025& 28-10-2025		
			11 1//	

Signature of Teacher

(Swati Bhardwaj)

HOD AS & H

(Aman Saini)

LESSON PLAN

LILOU	VIII A AJIAII
Program Name	DIPLOMA IN CIVIL ENGG./ECE
Course/Subject Name	Communication Skills In English
Course/Subject Code	HS 101
Course/Subject Coordinator Name	Renu Patial

Evaluation scheme

S.No. subject		study scheme	Marks in evaluation scheme						
	Name	(Hrs/Week)	Internal Assessment		External Assessment				
		¥ :=	Theory	Practical	Theory	Practical			
1.	Communicatio n Skills in English	2(Th)+1(DCS)+ 2(Pr.)	40	40	60	60			
Refe	rence books:		(1) The Functional Aspects of Communication Skills						
		3	(2) H. ((2) H. G Publications English Grammar					
			(3) English & Comm. Skills-I & II by Eagle Publications						
	(4) Gener			Seneral English By Lucent					

Course Outcomes: After the completion of the course the students will:

CO1	Develop basic speaking and writing skills including proper usage of language and vocabulary so that they can become highly confident and skilled speakers writers.
CO2	Be informed of the latest trends in basic verbal activities such as presentation facing interviews and other forms of communication.
CO3	Also Develop Skill of group presentation and communication in team.
CO4	Develop Non-Verbal Communication such as proper use of body language and gesture.

Teaching Plan:

S.N	Name of topic	Proposed Date	Actual date	Remark s
1	Unit-1 Communication: Theory and Practice Introduction	08,/08/25		
2	Basics of communication, Introduction meaning and definition, process of communication etc.	13/08/25		
3	Types of Communication: Formal & Informal, Verbal, Non-Verbal and written Barriers to effective communication.			
4 7Cs for effective communication(Consideration, concrete,concise, clear,complete, correct, courteous)		20/08/25		
5	Art of effective communication, (Choosing words, Voice, Modulation, Clarity, Time, Simplification of Words and Technical Communication.	21/08/25		
6	Unit-2 Soft Skills For Professional Excellence: Introduction: Soft Skills and Hard skills Importance of soft skills	22/08/25		
7	Life Skills, Self Awareness and self analysis, Adaptability, resilience, emotional intelligence and empathy etc.	27/08/25	ener Sill Con	
8	Unit- 3 Reading Comprehension Section: Short Stories 1. The Gift Of Magi	29/08/25		
9	The Gift Of Magi	03/09/25		
10	2.Uncle Podger Hangs a Picture	04/09/25		
11	Uncle Podger Hangs a Picture	05/09/25		

12	Section :2 Poetry 1.Night Of the Scorpion	10/09/25	T	
13	1.Night Of the Scorpion	, 0, 00/20		
14		11/09/25		
14	2.Stopping By Woods On A Snowy Evening	12/09/25		
15	Stopping By Woods On A Snowy Evening	17/09/25	-	
16	3. Where Mind Is without fear			
17		18/09/25		
	Unit-4. Professional writing The Art of précis writing	19/09/25		
18	The Art of Precis Writing	24/09/25	初外	Paj s
19 ———	Letters: Business and Personal	25/09/25	1004	
20	Letters: Business and Personal	26/09/25	k o	
21	Letters: Business and Personal	01/10/25	1 10%	E
22	Drafting e-mail	03/10/25		
23	Drafting Notices	09/10/25		
24	Minutes Of Meeting	15/10/25		
25	Minutes Of Meeting	16/10/25		
26	Unit -5 Vocabulary and Grammar Glossary of administrative terms(Hindi and English)	17/10/25		
27	One-word substitution	22/10/25	P-M-107 44 4 - 1	Sharfur of
28	One-word substitution	24/10/25	757-	Wife.
29	Idioms:and phrases	29/10/25		
30	Idioms and phrases	30/10/25		EX.

31	Parts of Speech	31/10/25		
32	Parts of Speech	06/11/25		
33	Parts of Speech	07/11/25		
34 Parts of Speech		12/11/25		
35	Tenses	13/11/25		
36	Tenses	14/11/25		
37	Active and Passive Voice	19/11/25		
38	Active and Passive voice	20/12/25	Company of	TELEP
39	Active and Passive Voice	21/11/25	4	-
40	Active and Passive Voice	21/12/25	4 7,	51 E.
41	Punctuation.	26/12/25	1.30 37 7	5 t m
42	Punctuation.	26/12/25	1-13	

Assignments:

Assignment serial	Contents of syllabus covered	Proposed Date	Actual date	Remarks
A-1	Communication and Soft Skills			
A-2	Reading Comprehension			

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed Date	Actual date	Remark
CT-I	30% of the syllabus			
CT-II	Next 30% of the syllabus			
House Test	80% of the syllabus			



Lab Plan(101):

nic Month	Name of Practical	Actua	l Data	n	
		Actual Date		Remarks	
AUG /SEP	Unit-1 listening Skills: Listening process and practice, introduction to recorded lectures, poems, interviews and speeches, listening tests.	G-A	G-B		
SEP /OCT	Unit-2 introduction to phonetics 1. Sounds: Consonant, Vowel, Diphthongs etc. transcription of words(IPA) Syllable Division 2. Words, Stress, Intonation, Voice Modulation etc.				
NOV /DEC	Unit-3 Speaking Skills Standard and Formal speech Group Discussion Oral Presentation Public Speaking ,Business presentation etc. Conversation Practice Rofe playing Mock Interview				

Signature of Teacher

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Signature of HOD

DEPARTMENT OF APPLIED SCIENCES & HUMANITIES LESSON PLAN

Academic Year	2024-25	
Semester	1"	
Course Code	ES101	
Course Title	ENGINEERING GRAHICS	
Prerequisties	NIL	
Course Category	ES	
Name of Faculty	ER. Harnem singh	
Semester Start & End Dates	08/8/25 to 26/11/25	K-V
Credits	1.5	

STUDY AND EVALUATION SCHEME

Sr. No.	Name of the Subject	L	-	-	-	L DCS	L DCS	L	used.	L	DCS	P		A DECEMBER OF STREET	ernal ssment	Ex	terna	ıl As	sess	ment	Total
,																	Th	Pr	Total	Th	Hrs
3.2	Engineering Drawing-II	-	1	3	-	40	40	60	3	-	-	60	16								

Subject Details:

Day	Unit & Topic of Discussion		Topic Details	Delivery Meth
	-5=	Unit 1. Introduct	ion to Engineering Drawing	
Day 1	Introduction	Drawing Instrur use them with a	ments and supporting materials:	method to Chalk & Talk
N	Types of lines	Convention of	lines and their applications. Write n 7:4 scale (Vertical only)	alphabetsChalk & Talk

as per SP-Chalk & Talk 46:2003 – types and applications of chain, parallel and coordinate dimensioning.
Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
CLASS TEST- I (4th WEEK OF SEPTEMBER, 2025) Unit 2: Orthographic projection (First Angle Projection)
Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.

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CLASS TEST- II (4" WEEK OF OCTOBER, 2025

Day 17	la	Unit 3 Isometric projection	
	Isometric projection	Introduction to isometric projections. Isometric scale and Natural scale. Isometric view and isometric projection. Illustrative problems related to objects containing lines, circles and arcs shape only. Conversion of orthographic views into isometric view/projection.	Chalk & Talk
Day 18		Introduction to isometric projections. Isometric scale and Natural scale. Isometric view and isometric projection. Illustrative problems related to objects containing lines, circles and arcs shape only. Conversion of orthographic views into isometric view/projection.	Chalk & Talk
Day 19		Introduction to isometric projections. Isometric scale and Natural scale. Isometric view and isometric projection. Illustrative problems related to objects containing lines, circles and arcs shape only. Conversion of orthographic views into isometric view/projection.	Chalk & Talk
Day 20	•	Introduction to isometric projections. Isometric scale and Natural scale. Isometric view and isometric projection. Illustrative problems related to objects containing lines, circles and arcs shape only. Conversion of orthographic views into isometric view/projection.	Chalk & Talk
Day 21		Introduction to isometric projections. Isometric scale and Natural scale. Isometric view and isometric projection. Illustrative problems related to objects containing lines, circles and arcs shape only. Conversion of orthographic views into isometric view/projection.	Chalk & Talk
DAY 22		TEST (2 nd WEEK OF NOVEMBER, 2023)	
Day 23	UNII - 4 Free Hand	Free hand sketches of machine elements: Thread profiles, nuts, bolts, studs, set screws, wash- er, Locking arrangements. Free hand sketches of orthographic view (on squared graph paper) and isometric view (on isometric grid paper).	Chalk & Talk
Day 24		Free hand sketches of machine elements: Thread profiles, nuts, bolts, studs, set screws, wash- er, Locking arrangements. Free hand sketches of orthographic view (on squared graph paper) and isometric view (on isometric grid paper).	Chalk & Talk
UNIT 5: Co	mputer aided drafting interfa	ice	
Day 25		Computer Aided Drafting: concept. Hardware and various CAD software available. System requirements and Understanding the interface.	Using CAD Software

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Lab Plan: Sports and Yoga ECE

Sr. No.	Proposed date		Actual date			
51. NO.	Name of Contents	G-I	G-II	G-I	G-II	Remarks
1	Introduction to Physical Education. Meaning & definition of Physical Education. Aims & Objectives of physical Education. Changing trends in Physical Education	13 08 25	12/08/25			
2	Olympic Movement. Ancient & Modern Olympics (Summer & Winter). Olympic Symbols, Ideals, Objectives & Values. Awards and Honours in the field of sports in India (Dronacharya Award, Arjuna Award, Dhayanchand Award, Rajiv Gandhi Khel Ratna Award etc.)		19/08/25			
3	Physical Fitness, Wellness & Lifestyle. Meaning & Importance of physical Fitness & wellness. Components of Physical fitness. Components of Health related fitness. Components of wellness. Preventing health threats Though Lifestyle Change. Concept of positive Lifestyle.	27/08/25	26/08/25	HAROLINE HAR		
4	Fundamentals of Anatomy & Physiology in physical Education, Sports and yoga. Define anatomy, Physiology & Its importance. Effect of exercise on the fuctioning of various body system. (Circulatory system, Respi- ratory system. Neuro-Muscular system etc.)	03/09/25	02/09/25			
5	Kinesiology, Biomechanics & sports. Meaning & Importance of Kinesiology & Biomechancis in Physical Edu. & sports. Friction and its effects in sports.	10/09/25	09/01/25			
6	Postures. Meaning and concept of Postures. Bad Posture. Disadvantages of weight training. Concept & advantages of correct Posture. Common Postural Deformities - Knock Knee; Flat Foot; Round Shoulders; Lordosis, ky- Phosis, Bow legs and Scoliosis. Corrective measures for Postural Deformities.	17/09/25	[6]भ]श्ट			
7	Yoga. Meaning & Importance of Yoga. Elements of Yoga. Introducation - Asanas, Pranayama, Meditation & Yogic Kriyas. Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Sha- Shankasana). Relaxation Techniques for imporving concentration Yognidra.	.24/09/25	23/09/25			
8	Yoga & Lifestyle. Asanas as preventive measures. Hypetension: Tedasana, Vajrasana, Pravan Muktasana, Ardha Chakrasana, Bhujagasana, sharasana. Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh matsyendrasana, Matsyendrasana. Back Pain: Tadasana, Ardh Matsyendrasana, Vakrasana, shalabhasana, Bhujangasana.	01/10/25	30/09/25			

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Be Pa As	Procedure, enefits & contraindications for Bhujangasana, eschimottasana, Pavan Kuktasana, Ardh Matsyendrasana. esthema: procedure, Benefits & Contraindications for ahkasana, Chakrasana, Gomukhasana, Parvatasana, hujangasana, Paschimottasana, Matsyasana.	8/10/25	14/10/25		
0 T	aining and Planning in Sports. Meaning of Training. Warming up and limbering down. Skill, echnique & style. Meaning and Objectives of Planning. fournamet - Knock-Out, League/Round Robin &	15/10/25	21/10/25		
11	Psychology & Sports. Definition & Importance of Osychology in physical Edu. & sports. Define & Differentiate Between Growth & Devolopment Adolescent Problems & Their Management. Emotion: Concept, Type & Controlling of emotions. Meaning, concept & types of Aggressions in sports. Psychological benefits fo exercise. Anxiety & Fear and its effects on Sports Performance. Motivation, its types & techniques. Understanding Stress & Coping Strategies.	22/10/25	28/10/25		
12	Doping. Meaning and Concept of Doping. Prohibited substance & methods. Side Effects of Prohibited Substances	29/16/25	04/11/25		
13	Sports Medicine: First Aid Defination, Aims & Objectives sports injuries: Classification, Causes & Prevention. Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries.	19/11/25	18/11/85		, ·
14	Sports / Games. Following sub topics related to any one Game / Sport of choice of student out of: Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimming, Table Tennis, Volleyball, Yoga etc. History of the Game/Sport. Latest General Rules of the Game/Sport. Specification of Play . fields and Related Sports Equipment. Important Taurnaments and Venues. Sports Personalities. Proper Sports Gear and its Importance.	26/11/25	2,5/11/25.		

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	Lesson Plan/Lab	Plan (Carpent	ry snop)	446 256 255
Trade : ECE		Ses	ssion:	AUG-DEC 2015
Sem: 1st				Demorte
Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
		G-I 13-8-X		
		G-II 19-8-25		
1	(i) Demonstration of different wood working tools/Machines.	G-II 26-8-25		
		GTY 03-9-25		
		G-1 10-9-15		
		G-I 14-8-25	74-14	
	. (ii) Demonstration of different wood working processes like Plaining, Marking, Chiseling, grooving, truning of wood etc.	G-II 21-8-75		
2		G-II 28-8-X		
		GD 01-8-22	1.5	
		G-Y 11-9-25	147	11 11 11 11
	One Simple Job involving any one joint like mortise and tenon joint.	G-I 18-9-25	1 1 1 1 1 1 1	
		G-II 2319, 2419,	i jojing	
3		6班 20-9-25	- 17 Ale 45	
		G-10-15		
		G-5 15-10-25		
4		GI 22-10-25	* PALINDY, A	
		G-II 30-10-25		
	Practice on Dovetail, briddle and half lap joint etc.	G-II 06-11-25		
		G-17 20-11-75		
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rade : ECE		Ses	ssion:	AUG - DEC 202
em: 1st			25-959	
r. No	Name of Practical	Proposed Date	Actual Date	Remarks
		G-II 12/8, 13/8		
	(i) Demonstration of advance	G-III 1918, 2018		
1	power tools, Pneumatic tools, Electrical wiring tools and	G-IV 26/8, 27/8		
	acceptation	G-V 02/9,03/9		
		G-I 09/9, 10/9		
		G-II 1418		
	(ii) Tools for cutting and drilling	G-III 21/8		State.
2	Dower and approx	G-W 28/8		
		G-7 0419		
		G-I 1119		
	Practice of simple lamp circuit (iv) One lamp controlled by one	G-II 16/9, 17/9,18/9		
::*:		6-11 23/9, 24/9, 27/9		1938
3		G-TV 30/9, 01/10	1 - 23	
		G-5 08/10,09/10		上于数型
		G-I 14/10,15/10	N . 1 - 1	7. 法执法关
J	(vi) Connection of Fluorescent lamp/tube light. (vii) Simple Lamp Circuits install bedroom lighting (viii) Simple lamp Circuit install stair case wiring.	G-II 21/10,24/10,23/10		
		G-III 28/10/28/10/30/H		
4		G-15 04/11, 06/11		
		G-7 18/11,19/11,20/11		
		6-5 25/11,26/11,27/1		
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Trade : ECE		Ses	sion:	AUG- DEC 2025
Sem: 1st	*	, I	yin a	18-1
Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
		12108, 1318, G-¥ 14181L5		
	4	1918, 2018, GI 2118125		
1	Demonstraion of different welding tools/machines	2618,2718, G-II 2818125		
		G-II 0419125		
		G-W 1119125	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	Demonstraion on Arc Welding, Gas Welding, MIG, MAG Welding, gas cutting and rebuilding of broken	16/9, 1719, G-I 1819/25	TY PAGE	
		2319,2419,	7 (23)W 7, 13	
Welding, MIG, MAG Weld		G-II 0110125		
	parts with welding	G-III 09/10/27		
		G-I 15/10/25	F = - E L	
		21/10,22/10, G-\$\P\$ 23/10/25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1 2 1	One Simple job involving butt and lap joint	GI 30/10/29/10,	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
		04111, G-II 66/11/25		
		G-II 20111125		
		G型 27/11,26/11,		

W/shop Instr.

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