LESSON PLAN

Program Name	DIPLOMA IN Computer Engineering
Course/Subject Name	Mathematics-I
Course/Subject Code	BS 101
Course/Subject Coordinator Name	Dr. Reena Kumari

Evaluation scheme

S.No.	Subject Name			Marks in	evaluation s	cheme
	•	Study scheme		Internal Assessment		Assessment
		(Hrs/Week)	Theory	Practical	Theory	Practical
1.	Mathematics-I	3(Th)+2(DCS)	40	_	60	
Refere	ence books:	.1		3.S. Grewal, Khanna Publi 2007.	Higher Engin shers, New [eering Mathematics, Delhi, 40th Edition,
	-		(2) G. B. Thomas, R.L. Finney, Calculus and Analytic Geometry, Addison Wesley, 9th Edition, 1995.			
				Reena Garg, Khanna Pub Ed. 2018)	Engineering lishing House	Mathematics, e, New Delhi (Revised
		(4) V. Sundaram, R. Balasubramanian, K.A. Lakshminarayanan, Engineering Mathemat 6/e., Vikas Publishing House				
			(5)	Reena Garg Engineering House, New	Mathematic	a Prasad Advanced s, 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 CO3	The ability to find the effects of changing conditions on a system. Complex numbers enter into studies of physical phenomena in ways that most people cannot
. 181 b F	imagine. The partial fraction decomposition lies in the fact that it provides an algorithm for computing the
CO4	anti derivative of a rational function.

Teaching Plan:

ecture lo.	Name of topic	Proposed date	Actual date	Remarks
1	Trigonometry: Concept of angles	08/08/2025		
2	Concept of angles	11/08/2025		
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	20/08/2025		
7	T-Ratios of Allied angles	21/08/2025		
8	Sum, difference formulae and their applications	22/08/2025		and the contract of
9	Sum, difference formulae and their applications	23/08/2025		Mag Y
10	Sum, difference formulae and their applications	25/08/2025		
11	Product formulae (Transformation of product to sum, difference and vice versa)	27/08/2025	4784	
12	Product formulae (Transformation of product to sum, difference and vice versa)	28/08/2025	1	
13	Product formulae (Transformation of product to sum, difference and vice versa)	29/08/2025	- 17 A 14	
14	T- Ratios of multiple angles, sub-multiple angles (2A, 3A, A/2)	30/08/2025		1.53
15	T- Ratios of multiple angles, sub-multiple angles (2A, 3A, A/2)	01/09/2025	44.5	des.
16	Graph of sin x	03/09/2025		Book.
17	Graph of cos x	04/09/2025	. je = 1	R. A.
18	Differential Calculus: Definition of function	05/09/2025		Lewis
19	Definition of function	06/09/2025		
20	Concept of limits	08/09/2025	5.000	
21	Concept of limits	10/09/2025		
22	Class Test-I	11/09/2025		
23	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		
24	Four standard limits, $\frac{x^n - a^n}{x - a}$, $\frac{\sin x}{x}$, $(1 + x)^{\frac{1}{x}}$, $\frac{a^x - 1}{x}$	15/09/2025		
. 25	Differentiation by definition of sinx, cosx, tanx	17/09/2025		
26	Differentiation by definition of x ⁿ , e ^x	18/09/2025		
27	Differentiation formulae	19/09/2025		

28	Differentiation of			
29	Differentiation of sum and difference of functions	20/09/2025		T
30	ordination of sum and difference of functions	22/09/2025		
	of product and quotient of functions	24/09/2025		-
31	Differentiation of product and quotient of functions	25/09/2025		
32	Differentiation of function of a function	26/09/2025		-
33	Differentiation of function of a function	27/09/2025		-
34	Differentiation of trigonometric and inverse trigonometric functions	29/09/2025		-
35	Differentiation of trigonometric and inverse trigonometric functions	01/10/2025		-
36	Differentiation of trigonometric and inverse trigonometric	03/10/2025	***************************************	
37	Tunctions			
	Logarithmic differentiation	04/10/2025		
38	Logarithmic differentiation	06/10/2025		
39	Complex Numbers: Definition, real and imaginary parts of a complex number, conjugate of a complex number	08/10/2025		
40	Addition and Subtraction of complex numbers	09/10/2025		
41	Class Test-II ·	13/10/2025		
42	Multiplication and Division of complex numbers	15/10/2025	7 Y	
43	Multiplication and Division of complex numbers	22/10/2025		
44	Modulus and amplitude of a complex number	24/10/2025		
45	Polar and Cartesian, representation of a complex number and its conversion from one form to other	25/10/2025		
46	Polar and Cartesian, representation of a complex number and its conversion from one form to other	27/10/2025	d day	7
47	De-movier's theorem, its application	29/10/2025	24 1	
48	Partial fractions: Definition of polynomial fraction proper & improper fractions and definition of partial fractions	30/10/2025	Grad or	
49	To resolve proper fraction into partial fraction with denominator containing non-repeated linear factors	31/10/2025		
50	To resolve proper fraction into partial fraction with denominator containing repeated linear factors	01/11/2025	441	
51	To resolve proper fraction into partial fraction with denominator containing repeated and non repeated linear	03/11/2025		
52	factors Permutations and Combinations: Value of P(n,r) and	06/11/2025	u du	
53	C(n,r) Value of P(n,r) and C(n,r)	07/11/2025		1: 4
		13/11/2025	CHI	
54	Value of P(n,r) and C(n,r)	14/11/2025	724	25
55	Binomial theorem: Binomial theorem for positive integral index (expansion and general form)	15/11/2025		6 20
56	Diservial theorem for Dosidve integral	17/11/2025	5929	
57	Binomial theorem for positive integral index (general form)	19/11/2025		
58	Binomial theorem for any index.	19111-1-1	1	

59	Binomial theorem for any index	20/11/2025	
60	First and second binomial approximation with applications to engineering problems	21/11/2025	
61	First and second binomial approximation with applications to engineering problems	22/11/2025	
62	DCS on the topic covered in previous classes	24/11/2025	
63	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		
A-2	Differential Calculus & Algebra	Ist week of Nov. 2025	9-14-11-2	J 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	- 1-91	
CT-II	Next 30% of the syllabus	3 th week of Oct. 2025		E
House Test	80% of the syllabus	2 nd week of Nov. 2025	4	26 47 7 4 5 5

Signature of HOD

Signature of Teacher

Dr. Reens Kumar

LESSON PLAN

Program Name	Computer ENGG
Course/Subject Name	Applied Physics-I
Course/Subject Code	BS-103 & BS-106
Course/Subject Coordinator Name	Pritam Singh Dogra

Evaluation scheme

S.No.	Subject Name	Study scheme	Marks in e	valuation sch	eme		
	The second secon	athay scheme	Internal Assessment		External A	ssessment	
	4	(Hrs/Week)	Theory	Practical	Theory	Practical	
1.	Applied physics-I & Applied Physics-I lab	TH [3+1(DCS) + 2 (Lab)	40	40	60	60	
Refere	nce books		(i)		ntal of Physics Resnick/Walke		
			(ii)	New simp	ew simplified Physics by S.L. Arora		
		,	(iii) Applied Physics, Vol. I and Vol. II. T Publications, Tata McGraw Hill, Delh (iv) Engineering Physics by DK Bhartache Poonam Tandan; Oxford University P Delhi				

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

CO1	Understand the importance of applied physics in describing physical phenomena.
CO2	Employ the knowledge of units and dimensions for various types of measurements.
CO3	L'aderstand 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.
CQ6	Lingerstand 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	Activity	Kamarks
1	Unit-1 Physical world, Units & Dimensions: Physical quantities - fundamental and derived,	11.8-25		
	Units & systems of units (FPS, CGS and SI units)	12.8.15		
2	Units & systems of units (PPS, Cos and or unities	14.8-4		
3-4	Dimensions and dimensional formulae of physical quantities	18.8-8		1-1-2
<u>5</u>	Principle of homogeneity of dimensions Dimensional equations and their applications, conversion from	19.8-4		Telliny
7	one system of units to other, checking of dimensional equations and derivation of simple equations)	21.8.8	er green to the entire to the	
8	The investor of dissentional are vsls	17.4.0	Party Street Street	
9	Error in measurement (systematic & random), absolute error,	25.8-8		
10	Unit-2 Force &motion: Scalar and versor quantities	26-8-15		
	Addition and Subtraction of Vectors, Triangle and Parallelogram	28.8.8	6_ /27	
11-12	law (Statement only).			The second
	- Davidson	24-8-25	The same of the sa	
13	Resolution of Vectors and its application to inclined plane	01.9.6		
14	Kestinuon in a contra de la contra del			

	(Rectangular components) and lawn roller	29.25	· · · · · · · · · · · · · · · · · · ·
5-16	Force, Momentum, Statement and Derivation of Conservation of linear momentum, its applications such as recoil of gun & rocket	4-9-15	
17	Impulse and its Applications	5-9-25	
18	Circular motion, definition of angular displacement, angular velocity, angular acceleration, frequency, time period	8-9-75	
19	Relation between linear and angular velocity, linear acceleration and angular acceleration (related numerical)	99.25	
20	Centripetal and centrifugal forces with live examples such as banking of roads and bending of cyclist	11.9.25	
21	Unit-3 Work, Power & Energy Work: Concept and units. examples of zero work, positive work and negative work	12-9-8	
22	Friction: concept, types, laws of limiting friction, Coefficient of friction, methods for reducing friction and its Engineering Applications	15.9.18	
23	Work done in moving an object on horizontal and inclined plane for rough and plane surfaces and related applications	16-9-8	N. KY
24	Energy and its units: Kinetic energy and gravitational potential energy with examples and their derivation	18.9.8	
25-26	Mechanical energy, conservation of mechanical energy for freely falling bodies, transformation of energy(examples)	19.9.3	1,3
27	Power and its units, power and work relationship, calculation of power (numerical problems)	22-9.25	
28	Unit-4 Rotational motion Translational and rotational motions with examples	23-9-8	
29	Definition of torque and angular momentum and their examples	25.9.5	
30	Conservation of angular momentum (quantitative) and its applications	24-9-35	1
31	Moment of inertia and its physical significance, radius of gyration for rigid body	6-10-8	
32	Theorems of parallel and perpendicular axes (statements only), Moment of inertia of rod, disc, ring and sphere(hollow and solid) : (Formulae only)	7.10.8	
33	Unit-5 Properties of matter Elasticity: definition of stress and strain, different types of modulii of elasticity,	9-10-5	
34	Hooke's law, significance of stress strain curve	13.10.25	- 18/2- 0
35	Pressure: definition, units, atmospheric pressure, gauge pressure,	14.10-25	
36	Surface tension: concept, units, cohesive and adhesive forces,	16.10.25	
37	Ascent Formula (No derivation), applications of surface	17-10-15	
38	effect of temperature and impurity on surface tension	21.10.72	-
39	Unit-6 Thermometry: Concept of heat and temperature	23.10-25	
40	Modes of transfer of heat (Conduction, convection and radiation with examples)	24.10.8	
41	scales of temperature and their relationship		
42	Types of Thermometer (Mercury Thermometer, Bimetallic Thermometer)	31-10-8	
43	Platinum resistance thermometer and pyrometer and their uses Expansion of solids, liquids and gases, coefficient of linear,		
44-45	surface and cubical expansions and relation amongst them,	3.11.26	

Assignments:

Assignment serial	Contents of syllabus covered	Proposed date	Actual date	Remarks
A-1	Physical world, Units & dimensions, force and motion	11-9.25		
A-2	Work, power, Energy and rotational motion	16.10-15		
A-3	Properties of matter and thermometry	3.11.25		

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed date	Actual date	Remarks
CT-I	30% of the syllabus	4.9.25		
CT-II	Next 30% of the syllabus	9.10-2		
House Test	80% of the syllabus	31-10-28		

Lab Plan:

Exp. No.	Name of experiment	Project late	Active date Remarks
exp. No.	Name of experiment	G-1/42	G-2/42
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.	11.8.254	14.8-25
,2	To Determine diameter of wire, a solid ball and thickness of a cardboard using a screw gauge.	18.6-258	
3	To determine radius of curvature of a convex and concave mirror/surface using a spherometer.	25-8-256	
4	To verify triangle and parallelogram law of forces.	2-9.25	
5	To determine force constant of spring using Hooke's law	9.9.254	
6	To verify law of conservation of Mechanical energy (PE to KE).	15.9.254	
7	To find the Moment of Inertia of a flywheel.	22.9.26	
8	To measure room temperature and temperature of a hot bath using mercury thermometer and convert it into different scales.	The second secon	

(Signature of Teacher)

(Signature of HOD)

LESSON PLAN

Program Name	Diploma (Comp.Engg.)
Course/Subject Name	Applied Chemistry
Course/Subject Code	Applied Chemistry: BS105 (Th) & BS109 (Pr)
Course/Subject Coordinator Name	Aman Saini

Evaluation scheme:

SN	Subject Name			Marks in eva	luation schem	€	
		Study Scheme		Internal Assessment		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	
		1	Edited	Applied Chemis by Aman Saini, bha Sharma HO	HOD, Govt Poly	rtechnic, Ambota	
	REFERENCE BO	OOKS	 TextBook Of Chemistry forClass XI & XII(Part-I,Part-II);NCERT.,Delhi,2017-18 				
			Dr.G.Hugar & Prof. A.N.Pathak Applied Chemistry Laboratory Practices, NITTTR				
				otri, Rajesh, Cher 1.,2014	nistry for Engir	neersWiley India	
				am, S.,Engineerii I.,New Delhi, 201		Viley India	

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

CO1	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	
C05	Understand construction and mechanism efficiency of electrochemical cells.
C06	Understand the corrosion and develop prevention techniques.



Teaching Plan:

t.	Name of topic	Proposed Date	Actual Date	Remarks
	Unit-1: Atomic Structure: Fundamental particles (electron, proton, neutron), Bohr's theory (Postulates)	12.08.2025	Date	
2	Bohr's theory (successes & limitations).	13.08.2025		
3	Heisenberg uncertainty principle, Hydrogen spectrum.	13.08.2025		
4	Orbital concept, difference between orbit and orbital, DCS	14.08.2025		
5	Shapes of s and p orbitals.	19.08.2025		
6	Quantum numbers.	20.08.2025		
7	Pauli's exclusion principle, Hund's rule of maximum multiplicity, Aufbau rule.	20.08.2025		
8	Electronic configuration(Z=1 to 30) & DCS	21.08.2025		
9	Unit-2.Chemical Bonding and Solutions:	26.08.2025		
	Concept of chemical bonding – cause of chemical bonding, types of bonds: ionic bonding (NaCl example), Lewis concept of covalent bond (H2, F2, HF). Electronegativity.			
10	Difference between sigma and pie bond.	27.08.2025		
11	Electron sea model of metallic bond. Idea of solute, solvent and solution.	27.08.2025		
12	Methods to express concentration of solution: Molarity, molality, mass percentage & DCS	28.08.2025		
13	<u>Unit-3 Electrochemistry and Corrosion</u> : Faraday's laws of electrolysis.	02.09.2025		
14		03.09.2025	.9 .a= :}:	
15	Industrial application of Electrolysis - • Electrometallurgy	03.09.2025		
16		04.09.2025		Parisla (
17		09.09.2025	1000	
18	PrimaryApplication of redox reactions in electrochemical cells – dry cell.Secondary cell - commercially used lead acid storage battery & DCS	10.09.2025		
19	Class test I (2nd week of sept 2025 as per HPTSB)	10.09.2025		Walter !
20	Introduction to Corrosion of metals – definition, types of corrosion (electrochemical),	11.09,2025		
2	1 H ₂ liberation and O ₂ absorption mechanism of electrochemical corrosion	16.09.2025		



22	Internal corrosion preventive measures - Purification, alloying and heat treatment	17.09.2025		
23	External corrosion preventive measures: metal anodic coating.	18.09.2025		
24	Cathodic coating & DCS	23.09.2025		
25	Unit-4 Engineering Materials:	24.09.2025		
	Natural occurrence of metals - minerals, ores of iron.			
	aluminum and copper, ganque (matrix), flux, slag,			
26	metallurgy - brief account of general principles of	24.09.2025		
	metallurgy(a).Crushing and grinding (b) Concentration of ore (Levigation)			
27	Froth flotation	25.09.2025		1
28	Magnetic separation & DCS.	30.09.2025		
29	(c) Extraction(Roasting and calcinations & smelting).	01.10.2025		
		01,10.2025		
30	(d) Refining (Electrorefining, zone refining)	08.10.2025	547	
31	Extraction of - iron from haematite ore using a blast furnace along with reactions.	00.10.2020		
32	Alloys - definition, purposes of alloying & DCS	08.10.2025		
	Ferrous alloys (Invar steel),	09.10.2025		
33	Non-ferrous alloys (Simple Brass & Bronzes) with			
	properties and applications			-
34	Nichrome, Duralumin, Magnelium with properties and	14.10.2025		
•	applications & DCS	15.10.2025		-
35	Unit-5 Water:	15.10.2023		
	Classification of soft and hard water based on soap test,			
	salts causing water hardness, Cause of poor lathering	1.50 -01		
	of soap in hard water, units of hardness(mg/L and ppm), simple numerical on water hardness			
	Class test II (3rd week of Oct 2025 as per HPTSB)	15.10.2025		
36	Problems caused by the use of hard water in boilers	16.10.2025		
37	(scale and sludge, foaming and priming, corrosion.)		4 1	
00	water softening techniques- i) zeolite process	21.10.2025	2 44 2	
38	ii). Municipal water treatment (in brief only) -	22.10.2025	Andrew.	
39	sedimentation, coagulation		5 5 5 5	-
40	filtration sterilization	22.10.2025		10-
40	Description of water used for human consumption for	23.10.2025		
41	drinking and cooking purposes from any water sources	10-11	17 34 E	
	and Indian standard specification of drinking water &	Take to be		
	DCS	28.10.2025		1 32 7
42	Unit 6 Eugle	20,10,2023	· 源.紫	
122	Definition of fuel and combustion of fuel, classification		1 10 100	
Section 1	- £ 5.100	29.10.2025	12810	S 25% 1
43	Characteristics of good fuel, Calorific values (HCV and			y-men
	LCV)			

NW.

	30% of the syllabus	10.09.2025
The second	Next 30% of the syllabus	15.10.2025
Test	80% of the syllabus	2 nd week of November 2025

Signature of Teacher
(AMAN SAINI)

Lab Plan (Syllabus Coverage Practical: Applied Chemistry)

	The state of the s	The state of the s	•	
Exp No.	Name of experiment	Proposed Date (G1/G2)	Actual Date (G1/G2)	Remarks
1	Preparation of standard solution of oxalic acid.	23-08-2025/ 12-08-2025		
2	To estimate moisture in a given coal sample gravimetrically.	30-08-2025/ 19-08-2025		
3	To estimate ash in a given coal sample gravimetrically.	06-09-2025/ 26/08/2025 & 02-09-2025		
4	To determine viscosity of given lubricating oil by Redwood viscometer.	20-09-2025/ 09-09-2025	(MOST API A FILA	
5	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	27-09-2025 & 04-10-2025/ 16-09-2025 & 23-09-2025		
6	(Daniel cell). To determine strength of solution by titrating against standard oxalic acid solution using phenolphthalein as indicator.	18-10-2025 & 25-10-2025/ 30-09-2025, 14-10-2025 & 21-10-2025		
7	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.	01-11-2025 & 15-11-2025/ 28-10-2025 & 04-11-2025		
8	Iodometric estimation of Copper in the given Copper ore using standard Hypo solution. OR To determine the percentage of Iron present in the given Haematite ore by standard Potassium Permanganate solution.	22-11-2025/ 11-11-2025, 18-11-2025 & 25-11-2025		

Signature of Teacher

(AMAN SAINI)

HOD, AS & H

LESSON PLAN

Program Name	DIPLOMA IN COMPUTER ENGG.
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.	Communication Skills in English	2(Th)+1(DCS) + 2(Pr.)	40	40	60	60			
Refer	rence books:		(1) The Functional Aspects of Communication Skills						
			(2) H. G Publications English Gramma						
7			(3) English & Comm. Skills-I & II by Eagle Publications						
			(4) Gen	(4) General 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.
соз	Also Develop Skill of group presentation and communication in team.
CO4	Develop Non-Verbal Communication such as proper use of body language and gesture.

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Teaching Plan:

Sr. No.	Name of topic	Proposed Date	Actual date	Remark s
1	Unit-1 Communication: Theory and Practice Introduction	12/08/25		
2	Basics of communication, Introduction meaning and definition, process of communication etc.	14/08/25		
3	Types of Communication: Formal & Informal, Verbal, on-Verbal and written Barriers to effective communication.	19/08/25		14
4	7Cs for effective communication(Consideration, concrete, concise, clear, complete, correct, courteous)	21/08/25		
5	Art of effective communication, (Choosing words, Voice, Modulation, Clarity, Time, Simplification of Words and Technical Communication.	23/08/25		
6	Unit-2 Soft Skills For Professional Excellence: Introduction: Soft Skills and Hard skills Importance of soft skills	26/08/25		
7	Life Skills, Self Awareness and self analysis, Adaptability, resilience, emotional intelligence and empathy etc.	28/08/25		
8	Unit- 3 Reading Comprehension Section: Short Stories 1. The Gift Of Magi	02/09/25		
9	The Gift Of Magi	04/09/25		
10	2.Uncle Podger Hangs a Picture	06/09/25		

11	Uncle Podger Hangs a Picture	16/09/25	
12	Section :2 Poetry 1.Night Of the Scorpion	18/09/25	
13	1.Night Of the Scorpion	20/09/25	
14	2.Stopping By Woods On A Snowy Evening	23/09/25	
15	Stopping By Woods On A Snowy Evening	25/09/25	
16	3. Where Mind Is without fear	27/09/25	
17	Unit-4. Professional writing The Art of précis writing	30/09/25	
18	The Art of Precis Writing	04/10/25	
19	Letters: Business and Personal	09/10/25	
20	Letters: Business and Personal	14/10/25	
21	Letters: Business and Personal	16/10/25	. 4.7 B. B. B.
22	Drafting e-mail	18/10/25	
23	Drafting Notices	21/10/25	
24	Minutes Of Meeting	25/10/25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
25	Minutes Of Meeting	28/10/25	
26	Unit -5 Vocabulary and Grammar Glossary of administrative terms(Hindi and English)	30/10/25	
27	One-word substitution	30/10/25	
28	One-word substitution	01/11/25	
29	Idioms and phrases	04/11/25	
30	Idioms ^c and phrases	04/11/25	

Lab Plan(101):

Touth	Name of Practical	Actua	d Date	Remarks	
		G-A	G-B		
21-1. 71-c!	Unit-1 listening Skills: Listening process and practice, introduction to recorded lectures, poems, interviews and speeches, listening tests.				
t 1(_1	Unit-2 introduction to phonetics L Sounds: Consonant, Vowel, Diphthongs etc. transcription of words(IPA) Syllable Division 2. Words: Stress, Intonation. Voice Modulation etc.				
Mark.	Unit-3 Speaking Skills Standard and Formal speech Group Discussion Oral Presentation Public Speaking Business presentation etc. Conversation Practice Role playing Mock Interview		72		4

Signature of Feacher

(RENU PATIAL)

Signature of HOD

DEPARTMENT OF APPLIED SCIENCES & HUMANITIES LESSON PLAN

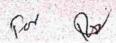
Academic Year	2024-25
Semester	1"
Course Code	ES101
Course Title	ENGINEERING GRAHICS
Prerequisties	NIL .
Course Category	ES
Name of Faculty	ER. Harnem singh
Semester Start & End Dates	08/8/25 to 26/11/25
Credits	1.5

STUDY AND EVALUATION SCHEME

Sr. No.	Name of the Subject	L.	DCS	p		Internal External Assessment					ment	Total	
					T h	Pr	Total	Th	Hrs	Pr	Hrs	Total	Marks
3.2	Engineering Drawing-II	-	1	3	-	40	40	60	3	-	-	60	100

Subject Details:

Day	Unit & Top Discussi	- 1	Topic Details	Delivery Metho
		Unit 1. Introduction	to Engineering Drawing	
Day 1	Introduction	Drawing Instrume use them with app	nts and supporting materials: lications.	method to Chalk & Talk
Day 2	Types of lines		es and their applications. Write 4 scale (Vertical only)	alphabetsChalk & Talk
	1 2 2 2 - 2			



	Dimensioning techniques	as per SP-Chalk & Talk 46:2003 – types and applications of chain, parallel and coordinate dimensioning.
Day 4	Scales	Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
Day 5		Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
Day 6		Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
Day 7		Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
Day 8		Representative Fractions – reduced, enlarged and full Chalk & Talk size scales; Engineering Scales such as plain and diagonal scale
DAY 9		CLASS TEST- I (Q**WEEK OF SEPTEMBER, 2025) Unit 2: Orthographic projection (First Angle Projection)
Day 10	Orthographic projection (First Angle Projection)	Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Day 11	,	Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Day 12		Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Day 13		Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Day 14		Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.
Day 15		Orthographic, perspective, isometric and oblique: conceptChalk & Talk and applications.

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CLASS TEST- II (4 ROWEEK OF OCTOBER, 2023
Unit 3 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.
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.
Introduction to isometric projections. Isometric chalk & Talk 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.
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.
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.
HOUSE TEST (2 nd WEEK OF NOVEMBER, 2023)
Free hand sketches of engineering elements 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).
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).
fed drafting interface
Computer Aided Drafting: concept. Hardware using CAD Software and various CAD software available. System

LESSON PLAN (SPORTS & YOGA)

Progra	am Name	Diploma (ECE/COMP ENGG/ CIVIL ENGG)							
Cours	e/ Subject Name	Sports & Yoga							
Cours	e/ Subject Code	HS 103							
	e/ Subject Coordinator Name		ler Sha	s hall.					
		8001110	ice onto	ozira.					
Evalua	ation scheme				KATA MANAGAMAN				
	*	Study		arks in eval					
SN.	Subject Name	Scheme (Hrs/Week)		sessment		ssessment			
314,	Subject Name .	02 Hrs/week	Theory	Practical	Theory	Practical			
1	Sports & Yoga	(Practical)	L	40	L	60			
		Propos	ed date	Actua	al date				
Sr. No.	Name of Contents					Remarks			
	£	G-1	G-2	G-1	G-2				
1	Introduction to Physical Education. Meaning & definition of Physical Education. Aims & Objectives of physical Education. Changing trends in Physical Education	12/8/25	1118/25			1 7			
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 Khei Ratna Award etc.)	19/8/25	1818125						
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.	26/8/25	25/8/25						
4	Fundamentals of Anatomy & Physiology in	02/9/25	01109125						
5	Kinesiology, Biomechanics & sports. Meaning & Importance of Kinesiology & Biomechancis in Physical Edu. & sports. Friction and its effects in sports.	9/9/25	0819125						
6	Postures. Meaning and concept of Postures. Casuses of Bad Posture. Advantages & 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.	1619/25	15/9/25	Į.					

7	1	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.	23/9/25	12/9/25		
8	3	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.	30 9 25	2919/25		
	9	Diabetes: Procedure, Benefits & contraindications for Bhujangasana, Paschimottasana, Pavan Kuktasana, Ardh Matsyendrasana. Asthema: procedure, Benefits & Contraindications for suhkasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottasana, Matsyasana.	21/10/25	6/10/25		
	10	Taining and Planning in Sports. Meaning Of Training. Warming up and limbering down. Skill, Technique & style. Meaning and Objectives of Planning. Tournamet - Knock-Out, League/Round Robin & combination.	14/10/25	13/10/25		N. W.
	11	Psychology & Sports. Definition & Importance of psychology 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.		27/10/25		
	12	Doping. Meaning and Concept of Doping. Prohibited substance & methods. Side Effects of Prohibited Substances	04/11/25	03/11/25		
	13	Sports Medicine: First Aid Defination, Aims & Objectives sports injuries: Classification, Causes & Prevention. Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries.	18/11/25	1411/25	(27) (27)	
	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.	25/11/25	24/11/25		

Signature of Teacher
(Davinoks Sharma)

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	Lesson Plan/Lab			
Trade : Comp Engg.		Session:		. AUG- DEC 2025
Sem: 1st Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
1	(i) Demonstration of different wood working tools/Machines.	G-I 11-08-25	·	nemarks
		G-II 18-8-25		
		G-II 25-8-25		
		GN 01-9-25		
		G-17 10-9-25		
2		GI 13-8-27		
	(ii) Demonstration of different	G-J 22-8-25	AL PROPERTY	
	wood working processes like Plaining, Marking, Chiseling, grooving, truning of wood etc.	G-II 29-8-25	1, 2,420	
		G-10 05-9-25	10 11	
		G-12 12-9-25	Pá, e Iv.,	
	One Simple Job involving any one joint like mortise and tenon joint.	GI 19-9-25		A Maria
		G-II 22-9, 24-9,		341 MA
3		G型 63-10-25		ta de t
		G-10-10-25	步性病	
		G-7 13-10-25	17.39	N. Salaka
4	Practice on Dovetail, briddle and half lap joint etc.	G-1 22-10-25	Albert Mary	
		G-II 31-10-25		
		GA 03-11-25		
		GI 21-11, 19-11,		
		GT 26-11-25		

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Workshop Supdt.

HOD App. Sci.& Hum.

T 1 C	Lesson Plan/Lab			
Trade : Com Sem: 1st	p Engg	Se	ssion: .	AUG-DEC 2025
Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
	(i) Demonstration of advance power tools, Pneumatic tools, Electrical wiring tools and accessories.	G-II 8/8,11/8	Actual Date	nemarks
1		power tools, Pneumatic tools,		
		G-y 01/9,03/9		
		G-I 08/9, 10/9		
	(ii) Tools for cutting and drilling (iii) Demonstration of measurement of current, voltage, Power and energy.	G-II 13/8		
		G-II 248	The House	
2		G-17 29/8	11 73 1	1 8/7/2
		G. I 05/9	7	i-Rina
		G-I 1219	7. 11.	100
	Practice of simple lamp circuit (iv) One lamp controlled by one	G-II 17/9, 17/9,19/8	An an an anni	
		G-亚 29/9, 24/9, 24/9 G-亚 29/9, 01/10, 02/10		
3	switch by surface conduit wiring. (v) Lamp Circuits- Connection of	G-1 29/9,01/10,03/10	WEEKS IN	
	lamp and socket by seprate	G-y 06/10,08/10,10/10	17 1 Marings	2000 C
		G-I 13/10, 15/10	1 1-91 1	200,201
	(vii) Simple Lamp Circuits install bedroom lighting (viii) Simple lamp Circuit install stair	G-II 22/10, 24/10		
		G-II 27/10,29/10,31/10		
4		G-17 03/11, 07/11		
		G-7 17/11, 19/11, 21/11		
		G-I 24/11,26/11		

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App. Sci.& Hum.

Trade : Comp	Lession Plan/Lab		sion:	AUG-DEC 2025
Sem: 1st	,	7	ision.	700-Bec 200
Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
1	(i) Demonstration of different sheet metal tools/machines	G-W 11/8/2025 G-W 11/8/2025 G-W 20/8/25 G-W 20/8/25 G-W 20/8/25 G-W 20/8/25 G-W 20/8/25 G-W 20/8/25 G-W 20/8/25 G-W 20/8/25 G-W 20/8/25 G-W 10/8/25 G-W 10/9/25		
2	(ii) Demonstration of different sheet metal operations like sheet cutting, bending, edging.	G-N 1318125 G-N 2218125 G-I 2918125 G-II 0519125 G-II 1219125		
3	Demonstarion of sheet metal operation like curling, lancing soldering, brazing and riveting.	G-II 13/10, 15/10 G-II 13/10, 15/10		
4	One simple job involving sheet metal operation and soldering and riveting	G-贝 22140,29110, G-贝 27110,29110, G-I 31110125 G-I 03111,07111 G-II 17/11,19111,21111 G-II 24/11,26/11		

Workshop Instr.
(Davinch Sharma)

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HOD App. Sci.& Hum.

Trada : C-	Lession Plan/Lab	rian (welding	g Snop)		
Trade : Comp Engg,		Session:		AUG- DEC 2025	
Sem: 1st					
Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks	
1	Demonstraion of different welding tools/machines	08/08,11/8 G-I 13/8			
		G-I 2218			
		6-II 2918,			
		G-II 0119,319,			
		G 15 0819, 10109,			
2	Demonstraion on Arc Welding, Gas Welding, MIG, MAG Welding, gas cutting and rebuilding of broken parts with welding	G-\$ 1919125			
		2219, 2419, G-I 261912r			
		. 2919,01110, G-II 0311012T	3 J. Hr.		
		66110,08110 G-III 10/10/25			
		G-13/10/ 15/10/25	No. of		
3	One Simple job involving butt and lap joint	G-Y 24/10/25		1 43	
		6-1 31110125	4 - 3-		
		GT 03/11,			
		G-11/11,19/11,			
		G-区 24111, 261,1115	1213		

W/shop Instr.

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Workshop Supdt.

App. Sci.& Hum.