

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	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Mathematics-I	3(Th)+2(DCS)	40	-	60	-
Reference books:			(1) B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, New Delhi, 40th Edition, 2007.			
			(2) G. B. Thomas, R.L. Finney, Calculus and Analytic Geometry, Addison Wesley, 9th Edition, 1995.			
			(3) Reena Garg, Engineering Mathematics, Khanna Publishing House, New Delhi (Revised Ed. 2018)			
			(4) V. Sundaram, R. Balasubramanian, K.A. Lakshminarayanan, Engineering Mathematics, 6/e., Vikas Publishing House			
			(5) Reena Garg & Chandrika Prasad Advanced Engineering Mathematics, Khanna Publishing House, New Delhi.			
			(6) Satish Kumar Sharma, Mathematics-I, Eagle Prakashan, 2023			

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	12/08/2024		
2	Concept of angles	13/08/2024		
3	Measurement of angles in degrees, grades and radians and their conversions	14/08/2024		
4	Measurement of angles in degrees, grades and radians and their conversions	14/08/2024		
5	Measurement of angles in degrees, grades and radians and their conversions	16/08/2024		
6	T-Ratios of Allied angles	20/08/2024		
7	T-Ratios of Allied angles	21/08/2024		
8	Sum, difference formulae and their applications	21/08/2024		
9	Sum, difference formulae and their applications	23/08/2024		
10	Sum, difference formulae and their applications	27/08/2024		
11	Product formulae (Transformation of product to sum, difference and vice versa)	28/08/2024		
12	Product formulae (Transformation of product to sum, difference and vice versa)	28/08/2024		
13	Product formulae (Transformation of product to sum, difference and vice versa)	30/08/2024		
14	T- Ratios of multiple angles, sub-multiple angles (2A, 3A, A/2)	02/09/2024		
15	T- Ratios of multiple angles, sub-multiple angles (2A, 3A, A/2)	03/09/2024		
16	Graph of sin x	04/09/2024		
17	Graph of cos x	04/09/2024		
18	Differential Calculus: Definition of function	06/09/2024		
19	Definition of function	09/09/2024		
20	Concept of limits	10/09/2024		
21	Concept of limits	11/09/2024		
22	Concept of limits	11/09/2024		
23	Four standard limits, $\frac{x^n - a^n}{x - a}$, $\frac{\sin x}{x}$, $(1 + x)^{\frac{1}{x}}$, $\frac{a^x - 1}{x}$	13/09/2024		
24	Four standard limits, $\frac{x^n - a^n}{x - a}$, $\frac{\sin x}{x}$, $(1 + x)^{\frac{1}{x}}$, $\frac{a^x - 1}{x}$	16/09/2024		
25	Differentiation by definition of sinx, cosx, tanx	17/09/2024		
26	Differentiation by definition of x^n , e^x	18/09/2024		
27	Differentiation formulae	18/09/2024		
28	Differentiation of sum and difference of functions	20/09/2024		

29	Differentiation of sum and difference of functions	23/09/2024		
30	Differentiation of product and quotient of functions	24/09/2024		
31	Differentiation of product and quotient of functions	25/09/2024		
32	Differentiation of function of a function	25/09/2024		
33	Differentiation of function of a function	27/09/2024		
34	Differentiation of trigonometric and inverse trigonometric functions	30/09/2024		
35	Differentiation of trigonometric and inverse trigonometric functions	01/10/2024		
36	Differentiation of trigonometric and inverse trigonometric functions	04/10/2024		
37	Logarithmic differentiation	07/10/2024		
38	Logarithmic differentiation	08/10/2024		
39	Complex Numbers: Definition, real and imaginary parts of a complex number, conjugate of a complex number	09/10/2024		
40	Addition and Subtraction of complex numbers	09/10/2024		
41	Multiplication and Division of complex numbers	11/10/2024		
42	Multiplication and Division of complex numbers	14/10/2024		
43	Multiplication and Division of complex numbers	15/10/2024		
44	Modulus and amplitude of a complex number	16/10/2024		
45	Polar and Cartesian, representation of a complex number and its conversion from one form to other	16/10/2024		
46	Polar and Cartesian, representation of a complex number and its conversion from one form to other	18/10/2024		
47	De-moivre's theorem, its application	21/10/2024		
48	Partial fractions: Definition of polynomial fraction proper & improper fractions and definition of partial fractions	22/10/2024		
49	To resolve proper fraction into partial fraction with denominator containing non-repeated linear factors	25/10/2024		
50	To resolve proper fraction into partial fraction with denominator containing repeated linear factors	04/11/2024		
51	To resolve proper fraction into partial fraction with denominator containing repeated and non repeated linear factors	05/11/2024		
52	Permutations and Combinations: Value of $P(n,r)$ and $C(n,r)$	06/11/2024		
53	Value of $P(n,r)$ and $C(n,r)$	06/11/2024		
54	Binomial theorem: Binomial theorem for positive integral index (expansion and general form)	08/11/2024		
55	Binomial theorem for positive integral index (general form)	18/11/2024		
56	Binomial theorem for positive integral index (general form)	19/11/2024		
57	Binomial theorem for any index	20/11/2024		
58	Binomial theorem for any index	20/11/2024		
59	First and second binomial approximation with applications to engineering problems	22/11/2024		
60	First and second binomial approximation with applications to engineering problems	25/11/2024		

61	DCS on the topic covered in previous classes	26/11/2024		
62	DCS on the topic covered in previous classes	27/11/2024		
63	DCS on the topic covered in previous classes	27/11/2024		
64	DCS on the topic covered in previous classes	29/11/2024		
65	DCS on the topic covered in previous classes	02/12/2024		

Assignments:

Assignment serial	Contents of syllabus covered	Proposed week/date	Actual date	Remarks
A-1	Trigonometry & Differential Calculus	3rd week of Sept. 2024		
A-2	Differential Calculus & Algebra	1st week of Nov. 2024		

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. 2024		
CT-II	Next 30% of the syllabus	3 th week of Oct. 2024		
House Test	80% of the syllabus	2 nd week of Nov. 2024		



Signature of Teacher

Dr. Reena Kumari



Signature of HOD

LESSON PLAN

Program Name	COMPUTER ENGG
Course/Subject Name	Applied Physics-I
Course/Subject Code	BS-103 & BS-106
Course/Subject Coordinator Name	Manoj Kumar

Evaluation scheme

S.No.	Subject Name	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Applied physics-I & Applied Physics-I lab	TH [3+1(DCS) + 2 (Lab)	40	40	60	60
Reference books			(i) Text Book of Physics for Class XI& XII (Part-I, Part-II); N.C.E.R.T., Delhi			
			(ii) Concepts in Physics by HC Verma, Vol. I & II, Bharti Bhawan Ltd. New Delhi			
			(iii) Applied Physics, Vol. I and Vol. II, TTTI Publications, Tata McGraw Hill, Delhi			
			(iv) Engineering Physics by DK Bhattacharya & Poonam Tandan; Oxford University Press, New Delhi			
			(v) Textbook of Applied Physics-I by Amit Pathak, Manoj Kumar Saini & Dr. Raj Kumar Jagota, True-Edu Publication			
			(vi) Practical Physics by C. L. Arora, S. Chand Publication.			

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	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	Actual date	Remarks
1	Unit-1 Physical world, Units & Dimensions: Physical quantities - fundamental and derived,	12/08/2024		
2	Units & systems of units (FPS, CGS and SI units)	13/08/2024		
3-4	Dimensions and dimensional formulae of physical quantities	14/08/2024		
5	Principle of homogeneity of dimensions	16/08/2024		
6	Dimensional equations and their applications, conversion from one system of units to other,	19/08/2024		
7	checking of dimensional equations and derivation of simple	20/08/2024		
		21/08/2024		

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	equations)			
8	Limitations of dimensional analysis	23/08 /2024		
9	Error in measurement (systematic & random), absolute error, relative error, error estimation and significant figures	27/08 /2024		
10	Unit-2 Force & motion: Scalar and vector quantities – examples, representation of vector, types of vectors	28/08 /2024		
11-12	Addition and Subtraction of Vectors, Triangle and Parallelogram law (Statement only),	30/08 /2024 02/09/2024		
13	Scalar and Vector Product.	03/09 /2024		
14	Resolution of Vectors and its application to inclined plane (Rectangular components) and lawn roller	04/09 /2024		
15-16	Force, Momentum, Statement and Derivation of Conservation of linear momentum, its applications such as recoil of gun & rocket	06/09 /2024 09/09/2024		
17	Impulse and its Applications	10/09 /2024		
18	Circular motion, definition of angular displacement, angular velocity, angular acceleration, frequency, time period	11/09 /2024		
19	Relation between linear and angular velocity, linear acceleration and angular acceleration (related numerical)	13/09 /2024		
20	Centripetal and centrifugal forces with live examples such as banking of roads and bending of cyclist	16/09 /2024		
21	Unit-3 Work, Power & Energy Work: Concept and units, examples of zero work, positive work and negative work	17/09 /2024		
22	Friction: concept, types, laws of limiting friction, Coefficient of friction, methods for reducing friction and its Engineering Applications	18/09/2024		
23	Work done in moving an object on horizontal and inclined plane for rough and plane surfaces and related applications	20/09 /2024		
24	Energy and its units: Kinetic energy and gravitational potential energy with examples and their derivation	23/09 /2024		
25-26	Mechanical energy, conservation of mechanical energy for freely falling bodies, transformation of energy(examples)	24/09 /2024 25/09/2024		
27	Power and its units, power and work relationship, calculation of power (numerical problems)	27/09 /2024		
28	Unit-4 Rotational motion Translational and rotational motions with examples	30/09 /2024		
29	Definition of torque and angular momentum and their examples	01/10 /2024		
30	Conservation of angular momentum (quantitative) and its applications	04/10 /2024		
31	Moment of inertia and its physical significance, radius of gyration for rigid body,	07/10 /2024		
32	Theorems of parallel and perpendicular axes (statements only), Moment of inertia of rod, disc , ring and sphere(hollow and solid) : (Formulae only)	08/10/2024		
33	Unit-5 Properties of matter- Elasticity: definition of stress and strain, different types of moduli of elasticity,	09/10 /2024		
34	Hooke's law, significance of stress strain curve	11/10 /2024		
35	Pressure: definition, units, atmospheric pressure, gauge pressure, absolute pressure, Fortin's barometer and its applications	14/10 /2024		
36	Surface tension: concept, units , cohesive and adhesive forces, angle of contact	15/10 /2024		
37	Ascent Formula (No derivation), applications of surface tension,	16/10 /2024		
38	effect of temperature and impurity on surface tension	18/10 /2024		

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39	Unit-6 Thermometry: Concept of heat and temperature	21/10 /2024		
40	Modes of transfer of heat (Conduction, convection and radiation with examples)	22/10 /2024		
41	scales of temperature and their relationship	23/10 /2024		
42-43	Types of Thermometer (Mercury Thermometer, Bimetallic Thermometer)	25/10 /2024 11/11/2024		
44	Platinum resistance thermometer and pyrometer and their uses	12/ 11/2024		
45-46	Expansion of solids, liquids and gases, coefficient of linear, surface and cubical expansions and relation amongst them,	13/ 11/2024 18/11/2024		
47	Co-efficient of thermal conductivity	19/11 /2024		

Assignments:

Assignment serial	Contents of syllabus covered	Proposed date	Actual date	Remarks
A-1	Physical world, Units & dimensions ,force and motion	02/09/2024		
A-2	Work, power, Energy and rotational motion	10/10/2024		
A-3	Properties of matter and thermometry	14/11/2024		

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed date	Actual date	Remarks
CT-I	30% of the syllabus	2 nd week of September		
CT-II	Next 30% of the syllabus	3 rd week of October		
House Test	80% of the syllabus	2 nd week of November		

Lab Plan:

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

(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	Study Scheme: (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			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
REFERENCE BOOKS			1. Dr.Vairam, S.,Engineering Chemistry,Wiley India Pvt.Ltd.,New Delhi, 2013			
			2. S.C.Ahuja ,Applied Chemistry, Eagle Prakashan			
			3. TextBook Of Chemistry forClass XI & XII(Part-I,Part-II);NCERT.,Delhi,2017-18			
			4. Dr.G.Hugar & Prof. A.N.Pathak Applied Chemistry Laboratory Practices, NITTTR			
			5. Agnihotri, Rajesh, Chemistry for EngineersWiley India Pvt.Ltd.,2014			
			6. Eagle's Applied Chemistry By S C Ahuja Edited by Dr Vibha Sharma and Aman Saini			

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
CO5	Understand construction and mechanism efficiency of electrochemical cells.
CO6	Understand the corrosion and develop prevention techniques.

Teaching Plan:

Lect. No.	Name of topic	Proposed Date	Actual Date	Remarks
1	<u>Unit-1: Atomic Structure:</u> Fundamental particles (electron, proton, neutron), Bohr's theory (Postulates)	13.08.2024		
2	Bohr's theory (successes & limitations).	14.08.2024		
3	Heisenberg uncertainty principle, Hydrogen spectrum.	14.08.2024		
4	Orbital concept, difference between orbit and orbital, DCS	20.08.2024		
5	Shapes of s and p orbitals.	21.08.2024		
6	Quantum numbers.	21.08.2024		
7	Pauli's exclusion principle, Hund's rule of maximum multiplicity, Aufbau rule.	22.08.2024		
8	Electronic configuration (Z=1 to 30) & DCS	27.08.2024		
9	<u>Unit-2. Chemical Bonding and Solutions:</u> Concept of chemical bonding – cause of chemical bonding, types of bonds: ionic bonding (NaCl example), Lewis concept of covalent bond (H ₂ , F ₂ , HF). Electronegativity.	28.08.2024		
10	Difference between sigma and pie bond.	28.08.2024		
11	Electron sea model of metallic bond. Idea of solute, solvent and solution.	29.08.2024		
12	Methods to express concentration of solution: Molarity, molality, mass percentage & DCS	03.09.2024		
13	<u>Unit-3 Electrochemistry and Corrosion:</u> Faraday's laws of electrolysis.	04.09.2024		
14	Simple numerical problems on Faraday's laws of electrolysis.	04.09.2024		
15	Industrial application of Electrolysis – • Electrometallurgy	05.09.2024		
16	• Electroplating,	10.09.2024		
17	• Electrolytic refining.	11.09.2024		
18	Primary Application of redox reactions in electrochemical cells – dry cell. Secondary cell - commercially used lead acid storage battery & DCS	11.09.2024		
19	<u>Class test I</u>	12.09.2024		
20	Introduction to Corrosion of metals – definition, types of corrosion (electrochemical),	17.09.2024		
21	H ₂ liberation and O ₂ absorption mechanism of electrochemical corrosion	18.09.2024		

22	Internal corrosion preventive measures – Purification, alloying and heat treatment	18.09.2024		
23	External corrosion preventive measures: metal anodic coating.	19.09.2024		
24	Cathodic coating & DCS	24.09.2024		
25	Unit-4 Engineering Materials: Natural occurrence of metals – minerals, ores of iron, aluminum and copper, gangue (matrix), flux, slag,	25.09.2024		
26	metallurgy – brief account of general principles of metallurgy(a).Crushing and grinding (b) Concentration of ore (Levigation)	25.09.2024		
27	Froth flotation	26.09.2024		
28	Magnetic separation & DCS.	01.10.2024		
29	(c) Extraction(Roasting and calcinations & smelting).	03.10.2024		
30	(d) Refining (Electrorefining, zone refining)	08.10.2024		
31	Extraction of - iron from haematite ore using a blast furnace along with reactions.	09.10.2024		
32	Alloys – definition, purposes of alloying & DCS	09.10.2024		
33	Ferrous alloys (Invar steel), Non-ferrous alloys (Simple Brass & Bronzes) with properties and applications	10.10.2024		
34	Nichrome, Duralumin, Magnesium with properties and applications & DCS	15.10.2024		
35	Unit-5 Water: 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	16.10.2024		
36	Class test II	16.10.2024		
37	Problems caused by the use of hard water in boilers (scale and sludge, foaming and priming, corrosion.)	22.10.2024		
38	water softening techniques- i) zeolite process	23.10.2024		
39	ii). Municipal water treatment (in brief only) – sedimentation, coagulation	23.10.2024		
40	filtration, sterilization	24.10.2024		
41	Properties of water used for human consumption for drinking and cooking purposes from any water sources and Indian standard specification of drinking water & DCS	29.10.2024		
42	Unit-6 Fuels: Definition of fuel and combustion of fuel, classification of fuels	30.10.2024		
43	Characteristics of good fuel, Calorific values (HCV and LCV)	30.10.2024		

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 Name	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Communication Skills in English	2(Th)+1(DCS)+ 2(Pr.)	40	40	60	60
Reference books:			(1) The Functional Aspects of Communication Skills			
			(2) H. G Publications English Grammar			
			(3) English & Comm. Skills-I & II by Eagle Publications			
			(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.
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:

Lecture No.	Name of topic	Proposed Date	Actual date	Remarks
1	Unit-1 Communication: Theory and Practice Introduction	13/08/24		
2	Basics of communication, Introduction meaning and definition, process of communication etc.	14/08/24		
3	Types of Communication: Formal & Informal, Verbal, Non-Verbal and written Barriers to effective communication.	20/08/24		
4	7Cs for effective communication(Consideration, concrete, concise, clear, complete, correct, courteous)	21/08/24		

5	Art of effective communication, (Choosing words, Voice, Modulation, Clarity, Time, Simplification of Words and Technical Communication.	22/08/24		
6	Unit-2 Soft Skills For Professional Excellence: Introduction: Soft Skills and Hard skills Importance of soft skills	27/08/24		
7	Life Skills, Self Awareness and self analysis, Adaptability, resilience, emotional intelligence and empathy etc.	28/08/24		
8	Unit- 3 Reading Comprehension Section: Short Stories 1. The Gift Of Magi	29/08/24		
9	The Gift Of Magi	03/09/24		
10	2. Uncle Podger Hangs a Picture	04/09/24		
11	Uncle Podger Hangs a Picture	05/09/24		
12	Section :2 Poetry 1. Night Of the Scorpion	10/09/24		
13	1. Night Of the Scorpion	11/09/24		
14	2. Stopping By Woods On A snowy Evening	12/09/24		
15	Stopping By Woods On A snowy Evening	17/09/24		
16	3. Where Mind Is without fear	18/09/24		
17	Unit-4. Professional writing The Art of précis writing	19/09/24		
18	The Art of précis Writing	24/09/24		
19	Letters: Business and Personal	25/09/24		
20	Letters: Business and Personal	26/09/24		
21	Letters: Business and Personal	08/10/24		
22	Drafting e-mail	09/10/24		
23	Drafting Notices	10/10/24		
24	Minutes Of Meeting	15/10/24		
25	Minutes Of Meeting	16/10/24		
26	Unit -5 Vocabulary and Grammar Glossary of administrative terms(Hindi and English)	22/10/24		
27	One-word substitution	23/10/24		
28	One-word substitution	24/10/24		
29	Idioms and phrases	29/10/24		
30	Idioms and phrases	30/10/24		
31	Parts of Speech	05/11/24		
32	Parts of Speech	06/11/24		
33	Parts of Speech	07/11/24		
34	Parts of Speech	12/11/24		
35	Tenses	13/11/24		
36	Tenses	14/11/24		
37	Active and Passive Voice	19/11/24		
38	Active and Passive voice	20/11/24		

39	Active and Passive Voice	21/11/24		
40	Active and Passive Voice	26/11/24		
41	Punctuation.	27/11/24		
42	Punctuation.	28/11/24		

Assignments:


Assignment serial	Contents of syllabus covered	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	Remarks
CT-I	30% of the syllabus			
CT-II	Next 30% of the syllabus			
House Test	80% of the syllabus			

Lab Plan(101):

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


Signature of Teacher


Signature of HOD

LESSON PLAN

Branch	Computer Engineering
Course Title	Sports and Yoga
Course Code	HS103
Number Of Credits	1 (L : 0 , DCS : 0 , P :2)
Course Category	HS

Evaluation Scheme

Sr No.	Subject Name	Study Scheme Hrs/Week	Marks Evaluation Scheme			
1	Sports and Yoga		Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
		02 Hrs/week		40		60
2	Reference Books	Modern trends and physical Edu. By Prof. Ajmer singh				
		Light on Yoga By B.K.S. Iyenger.				
		Health and Physical Edu.- NCERT (11 th and 12 th Classes)				

Course Outcome: On successful completion of the course the students will be able to:

i	Practice physical activities and hatha yoga focusing on yoga for strength, flexibility, and relaxation.
ii	Learn techniques for increasing concentration and decreasing anxiety which leads to stronger academic performance.
iii	Learn breathing exercises and healthy fitness activities. Understand basic skills associated with yoga and physical activities including strength and flexibility, balance and coordination.
iv	Perform yoga movements in various combination and forms
v	Assess current personal fitness levels.
vi	Identify opportunities for participation in yoga and sports activities
vii	Develop understanding of health related fitness components cardiorespiratory endurance, flexibility and body composition etc.
viii	Improve personal fitness through participation in sports and yogic activities
ix	Develop understanding of psychological problems associated with the age and life style
x	Demonstrate and understanding of sound nutritional practices as related to health and physical performance
xi	Assess yoga activities in terms of fitness value
xii	Identify and apply injury prevention principals related to yoga and physical fitness activities.

Lab Plan: Sports and Yoga(Comp Engg.)

S. No.	Name of Contents	Proposed date		Actual date		Remarks
		G-I	G-II	G-I	G-II	
1	Introduction to Physical Education. Meaning & definition of Physical Education. Aims & Objectives of physical Education. Changing trends in Physical Education	16/08/24	13/08/24			
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.)	23/08/24	20/08/24			
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 Through Lifestyle Change. Concept of positive Lifestyle.	30/08/24	27/08/24			
4	Fundamentals of Anatomy & Physiology in physical Education, Sports and yoga. Define anatomy, Physiology & Its importance. Effect of exercise on the functioning of various body system. (Circulatory system, Respi- ratory system. Neuro-Muscular system etc.)	06/09/24	03/09/24			
5	Kinesiology, Biomechanics & sports. Meaning & Importance of Kinesiology & Biomechanics in Physical Edu. & sports. Friction and its effects in sports.	13/09/24	10/09/24			
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.	20/09/24	17/09/24			
7	Yoga. Meaning & Importance of Yoga. Elements of Yoga. Introduction - Asanas, Pranayama, Meditation & Yogic Kriyas. Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Sha- Shankasana). Relaxation Techniques for improving concentration Yognidra.	27/09/24	24/09/24			
8	Yoga & Lifestyle. Asanas as preventive measures. Hypertension: Tadasana, 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.	04/10/24	01/10/24			

Signature

	<p>Diabetes: Procedure, Benefits & contraindications for Bhujangasana, Paschimottasana, Pawanuktasana, Ardha Matsyendrasana.</p> <p>Asthma: procedure, Benefits & Contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottasana, Matsyasana.</p>	11/10/24	08/10/24			
10	<p>Training and Planning in Sports. Meaning Of Training. Warming up and limbering down. Skill, Technique & style. Meaning and Objectives of Planning. Tournament - Knock-Out, League/Round Robin & combination</p>	18/10/24	15/10/24			
11	<p>Psychology & Sports. Definition & Importance of psychology in physical Edu. & sports. Define & Differentiate Between Growth & Development Adolescent Problems & Their Management. Emotion: Concept, Type & Controlling of emotions. Meaning, concept & types of Aggressions in sports. Psychological benefits for exercise. Anxiety & Fear and its effects on Sports Performance. Motivation, its types & techniques. Understanding Stress & Coping Strategies.</p>	25/10/24 01/11/24	22/10/24 29/10/24			
12	<p>Doping. Meaning and Concept of Doping. Prohibited substance & methods. Side Effects of Prohibited Substances</p>	08/11/24	05/11/24			
13	<p>Sports Medicine: First Aid - Definition, Aims & Objectives sports injuries: Classification, Causes & Prevention. Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries.</p>	22/11/24	19/11/24			
14	<p>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 Tournaments and Venues. Sports Personalities. Proper Sports Gear and its Importance.</p>	29/11/24	26/11/24			



Subject Teacher



HOD
App. Sci. Hum.

Lesson Plan/Lab Plan (Carpentry shop)

Trade : Computer Engg.

Session: July - Dec 2024

Sem: 1st

Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
1	(i) Demonstration of different wood working tools/Machines	G-I 12-8-24		
		16-8-24		
		17-8-24		
		19-8-24		
		G-II 23-8-24		
		24-8-24		
2	(ii) Demonstration of different wood working processes like Planing, Marking, chiseling, grooving, truning of wood etc.	G-III 30-8-24		
		31-8-24		
		G-I 2-9-24		
		6-9-24		
		7-9-24		
		G-II 9-9-24		
3	One simple job involving any one joint like mortise and tenon Joint.	13-9-24		
		G-III 16-9-24		
		20-9-24		
		21-9-24		
		G-I 23-9-24		
		27-9-24		
4	Practice on Dovetail, bridle and Half lap Joint etc.	28-9-24		
		G-II 30-9-24		
		11-10-24		
		5-10-24		
		G-III 7-10-24		
		11-10-24		
		G-I 14-10-24		
		18-10-24		
		19-10-24		
		4-11-24		
		8-11-24		
		G-II 21-10-24		
		25-10-24		
		26-10-24		
		18-11-24		
		22-11-24		
		23-11-24		
		G-III 28-10-24		
		01-11-24		
		02-11-24		
		25-11-24		
		29-11-24		
		30-11-24		

W/shop Instr.
TeK Singh

Foreman Instr.
(Naresh Kumar)

Workshop Supdt.

HOD
App. Sri Hum.

Lesson Plan/Lab Plan (Electrical shop)

Trade : Computer Engg.

Sem: 1st

Session: July - Dec 2024

Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
1	(i) Demonstration of advance power tools, Pneumatic tools, electrical wiring tools and accessories.	G-II 12-8-24		
		16-8-24		
		17-8-24		
		G-III 19-8-24		
		23-8-24		
		24-8-24		
2	(ii) Tools for cutting and drilling (iii) Demonstration of measurement of current, voltage, Power and energy.	G-I 30-8-24		
		31-8-24		
		G-II 02-9-24		
		06-9-24		
		07-9-24		
		G-III 09-9-24		
3	Practice of simple lamp circuit (iv) One lamp controlled by one switch by surface conduit wiring. (v) Lamp circuits- connection of lamp and socket by separate switches.	13-9-24		
		G-I 16-9-24		
		20-9-24		
		21-9-24		
		G-II 23-9-24		
		27-9-24		
4	(vi) Connection of Fluorescent lamp/tube light (vii) Simple Lamp Circuits install bedroom lighting. (viii) Simple lamp circuit install stair case wiring	28-9-24		
		G-III 30-9-24		
		04-10-24		
		05-10-24		
		G-I 07-10-24		
		11-10-24		
		G-II 14-10-24		
		18-10-24		
		19-10-24		
		04-11-24		
		08-11-24		
		G-III 21-10-24		
		25-10-24		
		26-10-24		
		18-11-24		
		22-11-24		
		23-11-24		
		G-I 28-10-24		
		01-11-24		
		02-11-24		
		25-11-24		
		29-11-24		
		30-11-24		

W/shop Instr.

Nazesh Kumar

Foreman Instr.

(Nazesh Kumar)

Workshop Supdt.

HOD

App. Sci Hum.