

Lesson Plan : 4th Semester Sub ID : 220041			
Semester : 4th			
Subject : English and Communication skill - II			
Lesson Plan Duration : 15/01/2026 to 30/04/2026			
Work Load (lecture/practical) per week(in hours) :Th (4)+ Pr (8)+SCA (1) =13			
Week	Theory	Practical (G1,G2)	
	Topic (including assignment/test)	Topic	
1 (15,16 Jan)	1.1 The Portrait of a Lady	Reading practice of chapter	
2 (19,20,21,22)	2.1 Modern means of comm. , 2.2. 7 C's of communication	Comprehension Exercises of Unseen Passages	
	3.1 Correspondence : enquiry letters/placing orders/complaint		
3 (27,28,29,30)	3.2 Report writing	Requesting & responding to requests,	
	3.3 Memos ,5.2 Telephonic etiquette		
4 (2 -6 Feb)	4.1 : Preposition	Expressing sympathy and condolence	
	4.2 : Conjunctions		
5 (9,10,11,12,13)	4.2 : Conjunctions	Warning, asking, and giving information	
	5.1 Presentation Skills		
6 (16,17,18,19,20)	1st sessional test (16/2/26 to 20/02/26)	Getting and giving permission,opinions	
	1.2 The Doctor's Word		
7 (23,24,25,26,27)	2.3 Non-verbal Communication Skill	GD, functional and non-functional roles in GD	
	3.4 Circulars 3.5 Press Release,3.6 Inspection Note		
8 (2,3,5,6 March)	5.4 Resume ,4.4 Idioms & Phrases	Debate	
	1.3 : Speech by Kiran Bedi		
9 (9,10,11,12,13)	5.3 Importance of Developing Employable and Soft Skills	Presentations using audio -visual aids	
	4.3 Punctuation		
10 (16,17,18,19,20)	2nd Sessional Test 16/3/26 to 20/3/2026	Seminar	
	1.4 The Bet - Anton Chekov		
11 (24,25,27)	4.5 Pair of Words (Words Commonly Misused and Confused	Interview skills	
	2.4 Barriers and Effectiveness in Listening Skills		
12 (30&1,2,3 April)	2.5 Barriers and Effectiveness in Speaking Skills	Telephonic & face to face interviews	
	5.5 Group Discussions : concept and fundamentals of GD		
13 (6,7,8,9,10)	5.5 Group Discussions : concept and fundamentals of GD	A small, formal and informal speech	
	5.6 Case Studies and Role Plays		
14 (13,15,16,17)	3.7 Corrigendum Writing	A small, formal and informal speech	
	3.8 Cover Letter		
15 (20,21,22,23,24)	4.6 Translation of Administrative and Technical Terms	Unseen comprehension passages	
	3rd sessional test 20/4/26 to 24/4/26		
16 (27,28,29,30)	Revision	Unseen comprehension passages	
	Revision		

LESSON PLAN**Name of Faculty:** Anuradha Bajaj**Subject:** Applied Mathematics-II(250022)**Semester:** 2nd**Discipline:** Computer, Electronics**Work Load:** Lect=4 per week per branch**Academic Session:** 15.01.2026 to 30.04.2026

WEEK	THEORY	
	LECTURE DAY	TOPIC (WITH ASSIGNMENT & TESTS)
1	1	Definition of function, its types
	2	Concept of Algebraic limits
	3	Concept of Trigonometric, Exponential & log-limits
	4	Numericals
2	1	Differentiation of x^n , $\sin x$ by first principle
	2	Differentiation of $\cos x$, $\tan x$ by first principle
	3	Differentiation of sum and difference of function
	4	Differentiation of product of function
3	1	Differentiation of quotient of functions
	2	Differentiation of trigonometric functions
	3	Differentiation of inverse trigonometric function
	4	Differentiation of Logarithmic function
4	1	Successive differentiation
	2	Application of diff. in Rate measures
	3	Maxima and minima
	4	Assignment-1 and Numericals
5	1	Numericals
	2	1 st Sessional Test (Tentative)
	3	1 st Sessional Test (Tentative)
	4	1 st Sessional Test (Tentative)
6	1	Integration as inverse operation of differentiation
	2	Simple standard integrals
	3	Numericals
	4	Integration by substitution method
7	1	Integration by Parts
	2	Evaluation of definite integrals with given limits
	3	Numericals
	4	Assignment-2
8	1	Applications of integration Area under a curve and axis
	2	Numerical integration by Trapezoidal Rule
	3	Numerical integration by Simpson's $1/3^{\text{rd}}$ Rule
	4	

9	1	Differential, order, degree, type linearity
	2	Function of O.D.E. (upto 1 st order)
	3	Solution of O.D.E. (1 st order) by variable
	4	Assignment-3
10	1	2 nd Sessional Test (Tentative)
	2	2 nd Sessional Test (Tentative)
	3	2 nd Sessional Test (Tentative)
	4	2 nd Sessional Test (Tentative)
11	1	Measure of central tendency: mean
	2	Measure of central tendency: median
	3	Measure of central tendency: mode
	4	Numericals
12	1	Measure of dispersion: Mean Deviation
	2	Measure of dispersion: Standard Deviation
	3	Numericals
	4	Assignment-4
13	1	Software- Theoretical Introduction
	2	Basic Diff. Between MATLAB and ScLab software
	3	Calculation with MATLAB or ScLab Representation of Matrix (2X2 order)
	4	Add, sub of Matrices (2x2 order) in MATLAB or ScLab
14	1	3rd Sessional Test (Tentative)
	2	3rd Sessional Test (Tentative)
	3	3rd Sessional Test (Tentative)
	4	3rd Sessional Test (Tentative)
15	1	Revision
	2	Practice of Previous Question papers
	3	Practice of Previous Question papers
	4	Revision

Lesson Plan

Name : Dr. Rishi Pal
Discipline : (i) Computer Engineering (CE)
 (ii) Electronics and Communication Engineering (ECE)
Semester : 2nd
Subject : Applied Physics II
Code : 220023
Scheme : 2 (T) + 2 (P)
Duration : 15.01.2026 to 30.04.2026
Session : 2025-26

Theory			Practical
Week	Lecture	Topic	Topic
1	1	Waves: definition, types (mechanical and electromagnetic wave)	Familiarization with apparatus (resistor, rheostat, key, ammeter, voltmeter, telescope, microscope etc.)
	2	Wave motion- transverse and longitudinal with examples	
2	3	terms used in wave motion like displacement, amplitude, time period, frequency, wavelength, wave velocity;	
	4	Relationship among wave velocity, frequency and wave length	
3	5	Simple harmonic motion (SHM): Definition with examples, Cantilever: definition, formula of time period (without derivation)	To find the time period of a simple pendulum.
	6	Free, forced and resonant vibrations with examples	
4	7	Sound waves: types (infrasonic, audible, ultrasonic) on the basis of frequency, noise, Coefficient of absorption of sound, echo	
	8	Reflection and refraction of light with laws, refractive index	
5	9	Lens: introduction, lens formulae (no derivation), Power of lens and simple numerical problems	To study variation of time period of a simple pendulum with change in length of pendulum.
	10	Total internal reflection and its applications, Critical angle and conditions for total internal reflection	
6	11	Superposition of waves (concept only), definition of Interference, Diffraction and Polarization of waves	To determine and verify the time period of Cantilever
	12	Introduction to Microscope, Telescope and their applications	
7	13	Electric charge, unit of charge, conservation of charge, Coulomb's law of electrostatics	
	14	Electric field, electric lines of force (definition and properties), Electric field intensity due to a point charge	
8	15	Definition of electric flux, Gauss law (statement and formula)	Revision and checked practical note book
	16	Capacitor and capacitance (with formula and unit)	
9	17	Electric current and its SI Unit, Direct and Alternating current	To verify Ohm's laws by plotting a graph between voltage and current.
	18	Resistance, conductance (definition and unit),	Revision and checked practical

		Series and parallel combination of resistances	note book
10	19	Ohm's law (statement and formula), Definition of energy level and energy bands	
	20	Types of materials (conductor, semiconductor, insulator and dielectric) with examples, Intrinsic and extrinsic semiconductors	
11	21	Introduction to magnetism, type of magnetic materials: diamagnetic, paramagnetic and ferromagnetic materials with examples	To verify laws of resistances in series combination.
	22	Magnetic field, magnetic lines of force, magnetic flux	
12	23	Electromagnetic induction (definition)	To verify laws of resistance in parallel combination.
	24	Introduction, principle, absorption, spontaneous emission, stimulated emission, population inversion	
13	25	Engineering and medical applications of laser	Revision and checking of practical note books
	26	Fiber optics: introduction to optical fibers (definition, principle and parts), light propagation	
14	27	Fiber types (mono-mode, multi-mode), applications in medical, telecommunication and sensors	To find resistance of galvanometer by half deflection method.
	28	Nanotechnology: introduction, definition of nanomaterials with examples, properties at nanoscale	Revision and checking of practical note books
15	29	Applications of nanotechnology (brief)	To verify laws of reflection of light using mirror.
	30	Revision	Revision and checking of practical note books