Lesson Plan (B.A. I) (Micro Economics) (Sem-I)

Week-I (12 Sep to 17 Sep.)
- (i) Nature and scope of Economics
- (ii) Problem of Sacrity and choice

Week-II (19 Sep to 24 Sep)
- (i) Economic organisation and System

Week-III (26 Sep to 1 oct)
- (i) Micro and Macro Economics

Week IV (3 oct to 8 oct)
- (1) Concepts of Demand and Law of Demand

Week V (10 oct to 15 oct)
- (i) Elasticity of Demand

Week VI (17 oct to 21 oct)
- (i) Consumer Theory (Cardinal utility Analysis)

~~Week~~ 22 oct to 3 oct (Holiday)

Week VII (31 oct to 5 Nov.)
- (i) ordinal utility Theory.

Week VIII (7 Nov to 13 Nov) Election Duty
↓ (14 Nov to 19 Nov)
- (i) Production Function and Law of Production

Week IX (21 Nov to 26 Nov)
(i) Isoquant Curves and Producer's Equilibrium

Week X (28 Nov to 3 Dec)
(i) Concept of Supply

Week XI (5 Dec to 10 Dec)
(i) Theory of Costs

Week XII (12 Dec to 17 Dec)
(i) Law of Supply

Week XIII (19 Dec to 24 Dec)
(i) Concept of Revenue

Lesson Plan B.A. II (Sem-IV) (Macro Economics)

Week-I (12 Sep to 17 Sep)

(i) Introduction to Macro Economics

Week-II (19 Sep to 24 Sep)

(i) Basic Concept of National Income, Accounting

Week-III (26 Sep to 1 oct)

(i) Measurment of National Income

Week IV (3 oct. to 8 oct.)

(i) Measurment of National Income In India

Week V (10 oct. to 15 oct.)

(i) Classical Theory of Income and Employment

Week VI (17 oct to 21 oct)

(i) Say's Law of Market

~~Week VI~~   22 oct to 30 oct. (Holiday)

Week VII (31 oct. to 5 Nov.)

(i) Keynesian Theory of Income and Employment

Week VIII (7 Nov. to 13 Nov) (Election Duty)

↓   (14 Nov to 19 Nov)

(i) Consumption function

Week (IX)   (21 Nov to 26 Nov)
    (i) Investment function

Week (X)   (28 Nov to 3 Dec)
    (i) Marginal Efficiency of Captial

Week (XI)   (5 Dec to 10 Dec)
    (i) Meaning and working of Multiplier

Week (XII)   (12 Dec to 17 Dec)
    (i) Circular flow of National Income

Week (XIII)   (19 Dec to 24 Dec)
    (i) National Income Determination in
    an open Economy.

Lesson Plan B.A. III (Development Economics) (sem-iv)

Week-I (12 Sep to 17 Sep)
(i) Main features of an undeveloped economy

Week-II (19 Sep to 24 Sep)
(i) Economic Growth and Development

Week-III (26 Sep to 1 Octo.)
(i) Determinants of Economic Development

Week IV (3 Octo to 8 Octo.)
(i) Measurement of Economic Development

Week V (10 Oct to 15 Octo.)
(i) Obstacles to Economic Development

Week VI (17 Octo to 21 Octo.)
(i) Vicious circle of Poverty

Week VII (22 Oct to 30 Octo.) (Holiday)
(31 Octo to 5 Nov)
(i) Harrod-Domar model of Growth

Week VIII (7 Nov to 13 Nov) Election Duty
↓ (14 Nov to 19 Nov)
(i) Endogenous Growth Model.

Week (IX) (21 Nov to 26 Nov)

(i) Theory of Balanced Growth

Week (X) (28 Nov to 3 Dec.)

(i) Theory of Unbalanced Growth

Week (XI) (5 Dec to 10 Dec.)

(i) Lewis model of unlimited supply of labour

Week (XII) (12 Dec. to 17 Dec.)

(i) Leibenstein's Critical Minimum Effort Thesis

Week (XIII) (19 Dec to 24 Dec)

(i) Economic Planning in India
(ii) Economic Reforms and the Indian Economy

Lesson Plan B.com-I   Sem-I
(Business Economics)

Week-I (12 Sep to 17 Sep)
(1) Basic Problems of an Economy and Working of price Mechanism

Week II (17 Sep to 24 Sep)
(i) Law of Demand

Week-III (26 Sep to 1. Oct.)
(i) Elasticity of Demand

Week IV (3 Oct to 8 Oct.)
(i) Concept of Supply and Elasticity of Supply

Week V (10 Oct to 15 Oct)
(i) Production Function and Isoquant Curve

Week VI (17 Oct to 21 Oct.)
(1) Theory of Costs

~~Week V~~ (22 Oct to 30 Oct) → Holiday

Week VII (31 Oct to 5 Nov)
(1) Cardinal Utility Analysis

Week VIII (7 Nov to 13 Nov) → Election Duty
~~S~~ (14 Nov to 19 Nov)
(i) Indifference Curve Approach

Week IX (21 Nov to 26 Nov)
(i) Market: classification and structural

week X (28 Nov to 3 Dec.)
(i) Price Determination under perfect
                                    Condition

Week (XI) (5 Dec. to 10 Dec)
(i) Equilibrium of firm and Industry
   under perfect Competition

Week (XII) (12 Dec to 17 Dec.)
(i) Monopoly and Monopolic Competition

Week (XIII) (19 Dec to 24 Dec.)
(i) Oligopoly

Teaching Plan –

Class: B.Sc. 1st year (1st sem.)

Semester – (September–December, 2022)

Name of Teacher: Sh. Anand Kumar

Subject: Electrostatics and Magnetism

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Review of vector algebra (Scalar and Vector product)		
2	Week 3	gradient, divergence, Curl and their significance	---	
3	Week 4	Integration, Line, surface and volume integrals of Vector fields	---	
4	October Week 1	Gauss-divergence theorem and Stoke's theorem of vectors (statement only).	---	
5	Week 2	Electrostatic Field, electric flux, Gauss's theorem of electrostatics	Assignment 1	
6	Week 3	Applications of Gauss theorem- Electric field due to point charge, infinite line of charge, uniformly charged spherical shell and solid sphere	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	plane charged sheet, chargedconductor. Electric potential as line integral of electric field	--	
9	Week 2	potential due to a point charge, electric dipole, uniformly charged spherical shell	---	

10	Week 3	uniformly charged solid sphere. Calculation of electric field from potential.		
11	Week 4	Capacitance of an isolated spherical conductor. Parallelplate, spherical and cylindrical condenser. Energy per unit volume in electrostatic field.		
12	December Week 1	Dielectric medium, Polarisation, Displacement vector. Gauss's theorem in dielectrics.Parallel plate capacitor completely filled with dielectric.	Assignment 1	
13	Week 2	Magnetostatics: Biot-Savart's law & its applications- straight conductor, circular coil,solenoid carrying current	Class Test 2	
14	Week 3	Divergence and curl of magnetic field. Magnetic vector potential, Ampere's circuital law		
15	Week 4	Magnetic properties of materials: Magnetic intensity, magnetic induction, permeability, magnetic susceptibility. Brief introduction of dia-, para- and ferro-magnetic materials and revision.	---	

Teaching Plan – Academic and Research Communicative

Class: M.sc previous

Semester – 1st (September–December, 2022)

Name of Teacher:Ms. Rinku, Assistant Professor in Geography

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Introduction of Academic and Research Communicative		
2	Week 3	Academic and Research Communicative: Concept, definition, importance	---	
3	Week 4	Foundation of research : meaning, objective, motivation, Utility ,Concept of theory, empiricism, deductive and inductive theory	---	
4	October Week 1	Characteristics of scientific method, understanding the language of research -concept, construct, definition, variable	---	
5	Week 2	Research process current trends in research: Interdisciplinary Research, criteria of good research , preparing for interviews, CV/ biodata, Group discussion, public speaking, mass communication	Assignment 1	

Teaching Plan – Cartography (Practical)

Class: M.sc.(P)

Semester-1st sem (Sept.2022 to Dec.2022)

Name of Teacher: Ms.Rinku, Assistant Professor in Geography

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Introduction of Cartography		
2	Week 3	Climatic data representation by maps and diagrams	---	
3	Week 4	Line and Bar graph, polygraph exercise 2	---	
4	October Week 1	Rainfall deviation diagram, Climograph (Taylor and Foster) exercise -2	---	
5	Week 2	Hythergraph, Isopleth,wind rose diagram exercise -3	Assignment 1	
6	Week 3	Diagrams: Types and properties of diagrams representing socio-economic data : what is Socio-economic data	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Simple Bar Diagram, multiple bar diagram Exercise 2	--	
9	Week 2	Comparative bar diagram (exercise 1)	---	
10	Week 3	Two dimensional diagram:Pie diagram		
11	Week 4	Three dimensional diagram:Sphere Exercise 1		

12	December Week 1	Spatial representation of socio-economic data :Dot method and choropleth map (Monovariate and Biovariate Method) Exercise 2	Assignment 1	
13	Week 2	Trend Graph	Class Test 2	
14	Week 3	Age and sex pyramid, snail diagram (Exercise 2)		
15	Week 4	Flow diagram, cartogram, accessibility map, Practice, Revision	---	

Lesson plan-even semester

Paper - Mechanics

Class: B.Sc + BA IIIrd Year

Semester -IV (Februrary–May (2023-2024) 2024)

Name of Teacher: Dr. Ritu

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Composition and Resolution of forces.		
2	Week 2	Resultant of two parallel forces	---	
3	Week 3	and their applications.	---	
4	Week 4	Moments and couples.	---	
5	March Week 1	Analytical Condition of equilibrius of Coplaner force.		
6	Week 2	velocity and acceleration.	Assignment I	
7	Week 3	Relative velocity and acc.	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Simple Harmonic Motion. Elastic Strings.		
10	Week 2	Newton's laws of motion		
11	Week 3	Work, power and Energy	Assignment II	
12	Week 4	Revision.	Test- II	
13	May Week 1	Examination -		
14	Week 2		---	

Lesson plan-even semester

Paper – Groups & Rings

Class: B.Sc + BA IInd Year

Semester – IV (Februrary–May 2024 (2023-2024)

Name of Teacher: Ds. Rity

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Definition of groups, Subgroups Cyclic groups, Cosets.		
2	Week 2	Index of Subgroup, Coset Decomposition	---	
3	Week 3	Langrange's theorem. Normal Subgroup.	---	
4	Week 4	Quotient group, Homomorphism Isomorphism.	---	
5	March Week 1	Automorphism of cyclic groups Permutations group, Cayley's theorem.		
6	Week 2	Rings, Subrings, Integral Domains and Fields.	Assignment I	
7	Week 3	Characteristics of ring. Ideals	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Quotient Rings, Ring Homomorphism.		
10	Week 2	Euclidean rings, polynomial rings		
11	Week 3	The Eisensteins Criterion	Assignment II	
12	Week 4	UFD. & Revision	Test- II	
13	May Week 1	Examinations.		
14	Week 2		---	

Lesson Plan – Fundamentals of Computer

Class: B.Com.

Semester: 1st Semester (7 Sep 2022- 23 Dec 2022)

Name of Teacher: Sh. Lalit Singh, Computer Instructor

Week 1(7 Sep-11 Sep) Introduction and Organization of Computers, Definition of Computer, Block Diagram of Computer, Get familiar with computer parts and use of keyboard and mouse. Components of Computer, Characteristics of Computers,
Week 2(12 Sep- 18 Sep) Limitation of Computer, Human being VS Computer, Change Date and Time Setting. Classification of Computers-According to Purpose, According to Technology, According to Size and Storage Capacity, Application of Computer in various field, Revision.
Week 3(19 Sep-25 Sep) MS-DOS Internal Commands: chdir, cls, path, prompt, label, ver, bol, echo, set. External Commands: scandisk, discopy, diskcomp, format, backup, restore.
Week 4(26 Sep- 2 Oct) Introduction to Operating System, Types of Operating System, Functions of Operating System, Features of Windows Operating System, Creating Files and Folders, Managing File and Folders.
Week 5(3 Oct- 9 Oct) Computer Software, Types of Software, Proprietary and Open Source Software. Basics of Windows:- Basic Components of Windows, Icons, Type of Icons, Taskbar, Activating Windows.
Week 6(10 Oct-16 Oct) Input Devices, Mouse, Keyboards, Light Pen, Track Ball, Joystick, MICR, Optical Mark Reader and Optical Character reader, Scanners, Voice system, Web Camera, Title bar
Week 7(17 Oct- 23 Oct) Output Devices, Hard Copy, Output Devices, Line Printers, Character Printers, Chain Printers, Dot-Matrix Printers, Daisy Wheel Printer, Laser Printer, Inkjet Printers, Plotters,   Soft Copy Device – Monitor, Sound Card and Speakers, Revision.
Week 8(24 Oct-30 Oct)   Diwali Break.
Week 9(31 Oct-6 Nov)) Memory and Mass Storage Devices, Characteristics of Memory Systems, Memory Hierarchy, Types of Primary Memory, RAM and ROM, Secondary and Back-up, Magnetic Disks, Characteristics and Classification of Magnetic Disk, Optical Disk, Magnetic Tape.
Week 10(7 Nov-13 Nov) Overview of Networking:- Introduction to Network, Type of Network, Network Topologies, Mode of Data Transmission, Transmission Media.
Week 11(14 Nov-20 Nov) Introduction to Internet, Application of Internet, Hardware and Software requirement for internet
Week 12(21Nov-27 Nov) Create personal E-mail account, working with E-mail, Application of Intranet, World wide web, Web Browsers. Search engines, Understanding URL, Domain Name,
Week 13(28 Nov-4 Dec) MS Word Basics, Toolbars, Menus, creating, editing, formatting, Auto Spell and Correct,
Week 14(5 Dec-11 Dec) Format Painter, Mail Merge, Header Footer, Macro. MS Excel Basics, Cell, Creating, editing, working in Worksheets, Formulas,
Week 15(12 Dec-18 Dec) Pivot Table and Chart, sorting , filtering, conditional formatting, validating.
Week 16(19 Dec-23 Dec) Revision of syllabus.

Teaching Plan – **Business Management**

Class: Bcom 1st year

Semester – 1 (July – November 2023)

Name of Teacher: Manisha

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Business Concept, Nature and Spectrum of Business Activities.		
2	Week 4	Basic Considerations in Setting up a Business enterprise.	---	
3	August Week 1	Management: Introduction, Process,	---	
4	Week 2	Development of Management Thoughts	---	
5	Week 3	Contribution of Taylor and Henry Fayol in Management		
6	Week 4	Planning: Objectives.		
7	Week 5	Strategies and Planning process.	---	
8	September Week 1	Organizing: concept, Organizational Structure		
9	Week 2	Process.	Assignment 1	
10	Week 3	Staffing: concept and Scope.	Class Test 1	
11	Week 4	Recruitment and Selection.		
12	October Week 1	Directing: Leadership concept and Style,		

13	Week 2	Theories: Trait theory, Style & Behavior theory, Contingency theory.		
14	Week 3	Motivation: Concept, Theories: ERG theory,	Assignment 2	
15	Week 4	Reinforcement theory, Expectancy theory. Decision Making	Class Test 2	
16	November Week 1	Controlling: Concept, Process		
17	Week 2	Techniques, Management by Objectives		
18	Week 3	Diwali Vacation		
19	Week 4	Management of Change		
20	December Week 1	Resistance to Change and Strategies to manage change.		

Teaching Plan – Morphometric Analysis (Practical)

Class: **M. Sc. Geography (1st Semester)**

 Semester –   **(September–December, 2022)**

 Name of Teacher: Dr. Mukesh Kumar

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Interpretation of toposheets: Introduction and History		
2	Week 3	Interpretation of Physical features	---	
3	Week 4	Interpretation of Cultural features	---	
4	October Week 1	Delineation of Watershed in toposheets of study area	---	
5	Week 2	Profile Analysis: Transverse and Longitudinal	Assignment 1	
6	Week 3	Serial Profiles, Superimposed Profiles, Composite Profiles, Projected Profiles, Longitudinal or valley Thalweg Profile	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Linear Aspects of streams: Relationship between stream order and stream Number	--	
9	Week 2	Relationship between stream order and Average stream length and Bifurcation ration	---	
10	Week 3	Areal Aspects of streams: Drainage Frequency and Drainage Density		
11	Week 4	Relief & Slope Aspect: Area Height Curve and Altimetric frequency curve		

12	December Week 1	Relief & Slope Aspect: Hypsographic Curve and Hypsometric Integral Curve	Assignment 1	
13	Week 2	Relief & Slope Aspect: Clinographic or clinometric curve	Class Test 2	
14	Week 3	Slope Analysis : Wentworth's Method of Average Slope		
15	Week 4	Slope Analysis : G. H. Smith's Method of Relative Relief	---	

Teaching Plan – ECONOMIC GEOGRAPHY THEORY

Class: M.Sc - I

Semester – FIRST   (September–December, 2022)

Name of Teacher: SANJAY KUMAR

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Discuss of the syllabs and meaning and Definition of Economic Geography		
2	Week 3	Narture, Scope , approaches, Relationship of economic Geography with others	---	
3	Week 4	World Economics – Classfication, pattern of developed, Developing of the world	---	
4	October Week 1	Functional Classficatiopn of economic Activities- Primary, secondary, Tertiary and knowledge of quaternary	---	
5	Week 2	World production and Distribution of energy resources- Coal,Petroleum	Assignment 1	
6	Week 3	World production , Distribution of mineral Resourcs- Iron ore, Bauxipe	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Network Structure and economic activites,inpact of transport on Economic activites	--	
9	Week 2	Classficatiopn of resource based and footloose industries	---	

10	Week 3	Theories of industrial Location- Ullman, Alfred weber		
11	Week 4	Theories of industrial Location Isard , losch		
12	December Week 1	Concept of economic growth , Development, Globalization and pattern of economic development	Assignment 1	
13	Week 2	Emergence of a new global Economy Transnational-integration and its spatial outcomes	Class Test 2	
14	Week 3	Major Regional trade blocks of the world		
15	Week 4	Free trade initiatives GATT,UNCTAD,WTO	---	

Teaching Plan –

Class: B.A. - I   स्नातकोत्तर वैदिक हिन्दी विभाग

Semester – (September–December, 2022) Sem - I

Name of Teacher:

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	_(हस्तलिखित)_		
2	Week 3	_(हस्तलिखित)_	---	
3	Week 4	_(हस्तलिखित)_	---	
4	October Week 1	_(हस्तलिखित)_	---	
5	Week 2	_(हस्तलिखित)_	Assignment 1	
6	Week 3	_(हस्तलिखित)_	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	_(हस्तलिखित)_		
9	Week 2	_(हस्तलिखित)_		
10	Week 3	_(हस्तलिखित)_		
11	Week 4	_(हस्तलिखित)_		
12	December Week 1	_(हस्तलिखित)_	Assignment 1	
13	Week 2	_(हस्तलिखित)_	Class Test 2	
14	Week 3	_(हस्तलिखित)_		
15	Week 4	_(हस्तलिखित)_	---	

Lesson Plan – 2022-2023 (odd Semester)
Chemistry practical

Class: B.Sc.II   **Semester –III**

Session:2022-2023 (September–December, 2022)   **Name of Teacher: Dr. Meena Kumari**

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 1 &2	• Introduction to practical syllabus, marking pattern • About precautions to be taken in lab, common equipments to be used, name of various glasswares, organization of chemicals in laboratory and common instructions for practicals		
2	Week-3	• Determination of Mg^{2+} ions by complexometric titrations with EDTA. • File preparation		
3	Week 4 & 5	• Determination of Zn^{2+} ions by complexometric titrations with EDTA. • File preparation		
4	October Week 1	• Quantitative estimation of Cu^{2+} ions as copper thiocyanate gravimetrically. • File preparation		
5	Week 2	• Quantitative estimation of Ni^{2+} ions as nickel dimethylglyoxime gravimetrically. • File preparation		
6	Week 3	• File checking • Preparation of viva-voce from inorganic section		
7	Week 4	• Diwali Vacation		
8	November Week 1	• Determination of specific reaction rate of hydrolysis of ethyl acetate catalyzed by hydrogen ions at room temperature. • File preparation	Viva -voce mock test 1	
9	Week 2	• Preparation of arsenious sulphide sol and compare the precipitation power of mono-, di- and tri-valent anions. • File preparation • File checking • Preparation of viva-voce from physical chemistry practical section		

10	Week 3	● Preparation of m-dinitrobenzene from nitrobenzene, purification and determination of melting point. ● Preparation of dibenzalacetone from acetone and benzaldehyde, purification and determination of melting point. ● File preparation		
11	Week 4& 5	● Preparation of aspirin from salicylic acid, purification and determination of melting point. ● File preparation		
12	December Week 1& 2	● Preparation of solid derivative of Napthalene, anthracene, acenapthalene, benzyl chloride and p-dichlorobenzene, m-dinitrobenzene, p-nitrotoluene, resorcinol, hydroquinone, alpha-naphthol, beta-naphthol. ● File preparation		
13	Week 3	● Preparation of solid derivative of benzoquinone, ethyl methyl ketone, benzaldehyde, vanillin, oxalic acid, succinic acid, benzoic acid, salicylic acid, aspirin, pthalic acid, cinnamic acid, benzamide ● File preparation	Viva -voce mock test 2	
14	Week 4	● Preparation of solid derivative of urea, acetanilide, benzanilide, aniline hydrochloride, p-toluidine, phenyl salicylate, glucose, fructose, sucrose, o-, m-, p-nitoanilines, thiourea ● File preparation ● File checking ● Preparation of viva-voce from organic section		
15	Week 5	● Students doubts		

Lesson Plan – 2022-2023 (Even Semester)
Chemistry practical

Class: B.Sc.III   **Semester –VI**

Session:2022-2023 (February - May 2023)   **Name of Teacher: Dr. Meena Kumari**

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	**February** Week-1	• Introduction to practical syllabus, marking pattern • About precautions to be taken in lab, common equipments to be used, name of various glasswares, organization of chemicals in laboratory and common instructions for practicals		
2	Week-2	• To prepare o-chlorobenzoic acid from anthranilic acid. • File Preparation		
3	Week 3	• To prepare p-bromoaniline from p-bromoacetanilide. • File Preparation		
4	Week 4 & 5	• To prepare m-nitroaniline from m-dinitrobenzene. • File Preparation		
5	**March** Week 1	• To prepare S-Benzyl-iso-thiouronium chloride from thiourea • File Preparation		
6	Week 2	• Holi Vacation		
7	Week 3	• File checking • Preparation of viva-voce from organic section		
8	Week 4	• To determine the strength of the given mono basic acid solution conductometrically • File Preparation		
9	Week 5	• To determine the strength of the given di basic acid solution conductometrically. • File Preparation	Viva-voce mock test 1	
10	**April** Week 1	• To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically. • File Preparation		

11	Week 2	● File checking ● Preparation of viva-voce from conductometry experiments		
12	Week 3	● To determine the strength of given acid solution (mono and dibasic acid) potentiometrically. ● File Preparation		
13	Week 4	● To determine the molecular weight of a non-volatile solute by Rast method. ● File Preparation	Assignment 2	
14	May Week 1	● To standardize the given mono basic acid solution pH metrically	Viva-voce mock test 2	
	Week 2	● To standardize the given di basic acid solution pH metrically ● File Preparation		
	Week 3	● File checking ● Preparation of viva-voce from rast method, potentiometric and pH metric titrations		
	Week 4	● Revision		
	Week 5	● Students doubts		

Lesson Plan – 2022-2023 (odd Semester)
Chemistry (Organic and Inorganic Chemistry)

Class: B.Sc.III   **Semester –V**

Session:2022-2023 (September–December, 2022)   **Name of Teacher: Dr. Meena Kumari**

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 1 &2	• Introduction to the syllabus and examination pattern • Introduction to NMR Spectroscopy-I • Principle of nuclear magnetic resonance, the PMR spectrum,number of signals, peak areas • equivalent and nonequivalent protons positions of signals and chemical shift • shielding and deshielding of protons • proton counting,splitting of signals		
2	Week-3	• coupling constants • magnetic equivalence of protons. • Introduction to NMR Spectroscopy-II • Discussion of PMR spectra of the molecules: ethyl bromide, n-propyl bromide, isopropyl bromide, 1,1-dibromoethane, 1,1,2-tribromoethane		
3	Week 4 & 5	• Discussion of PMR spectra of the molecules: ethanol, acetaldehyde, ethyl acetate, toluene, benzaldehyde and acetophenone. • Simple problems on PMR spectroscopy for structure determination of organic compounds. • Question-answers from NMR Spectroscopy • Student doubts from NMR spectroscopy		
4	October Week 1	• Introduction to Carbohydrates-I • Classification and nomenclature, Monosaccharides • mechanism of osazone formation • interconversion of glucose and fructose • chain lengthening and chain shortening of aldoses.	Question answer Discussion	

5	Week 2	• Configuration of monosaccharides. • Erythro and threo diastereomers. • Conversion of glucose into mannose. Formation of glycosides, • ethers and esters. • Determination of ring size of glucose and fructose. • Open chain and cyclic structure of D(+)-glucose & D(-) fructose. • Mechanism of mutarotation. • Structures of ribose and deoxyribose.		
6	Week 3	• Introduction to Carbohydrates-II • An introduction to disaccharides (maltose, sucrose and lactose) • polysaccharides (starch and cellulose) without involving structure determination. • Question-answers from Carbohydrates • Student doubts from Carbohydrates	Assignment 1	
7	Week 4	• Diwali Vacation		
8	November Week 1	• Introduction to Organometallic Compounds • Organomagnesium compounds: the Grignard reagents-formation, structure and chemical reactions • Organozinc compounds: formation and chemical reactions. • Organolithium compounds: formation and chemical reactions. • Question-answers from Organometallic Compounds • Student doubts from Organometallic Compounds	Class Test 1	
9	Week 2	• Introduction to Metal-ligand Bonding in Transition Metal Complexes • Limitations of valence bond theory, an elementary idea of crystal-field theory • crystal field splitting in octahedral, tetrahedral and square planar complexes • factors affecting the crystal-field parameters.		
10	Week 3	• Introduction to Thermodynamic and Kinetic Aspects of Metal Complexes • A brief outline of thermodynamic stability of metal complexes and factors affecting the stability • substitution reactions of square planar complexes of Pt(II)		

Lesson Plan – 2022-2023 (odd Semester)
Chemistry (Organic and Inorganic Chemistry)

11	Week 4& 5	• Introduction to Magnetic Properties of Transition Metal Complexes • Types of magnetic behaviour, methods of determining magnetic susceptibility, • spin-only formula. L-S coupling, correlation of μ_s and μ_{eff} values • orbital contribution to magnetic moments, application of magnetic moment data for 3d metal complexes. • Question-answers and Student doubts from Metal-ligand Bonding, Thermodynamic and Kinetic Aspects and Magnetic Properties of Transition Metal Complexes	Question answer Discussion	
12	December Week 1& 2	• Introduction to Electronic Spectra of Transition Metal Complexes • Types of electronic transitions, selection rules for d-d transitions, spectroscopic ground states, spectrochemical series. • Orgel-energy level diagram for d^1 and d^9 states • discussion of the electronic spectrum of $[Ti(H_2O)_6]^{3+}$ complex ion.	Assignment 2	
13	Week 3	• Question-answers and Student doubts from Inorganic Chemistry	Class Test 2	
14	Week 4	• Revision of Inorganic Chemistry		
15	Week 5	• Revision of Organic Chemistry		

		Lesson Plan – 2022-2023 (Even Semester) **Chemistry (Organic and Inorganic Chemistry)**		

Class: B.Sc.III   **Semester –VI**
 Session:2022-2023 (February - May 2023)   **Name of Teacher: Dr. Meena Kumari**

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	**February** Week-1	• Introduction to the syllabus and examination pattern • Introduction to Heterocyclic Compounds-I • Nomenclature • Molecular Orbital structure and aromatic characteristics of pyrrole, furan and thiophene		
2	Week-2	• Methods of Preparation of pyrrole, Furan and Thiophene • Chemical reactions of pyrrole, furan and thiophene • Mechanism and Orientation of electrophilic substitution reactions in pyrrole, furan and thiophene		
3	Week 3	• Molecular Orbital structure and aromatic characteristics of pyridine • Methods of Preparation of pyridine • Chemical reactions of pyridine • Mechanism of electrophilic and nucleophilic substitution reactions in pyridine derivatives. • Comparison of basicity of pyridine, piperidine and pyrrole		
4	Week 4 & 5	• Introduction to condensed five and six membered heterocycles • Preparation of Indole, quinoline and iso-quinoline with special reference to Fischer Indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis • Mechanism of electrophilic substitution reactions of quinoline and isoquinoline • Problems of the students for Heterocyclic Chemistry	Question answer Discussion	
5	**March** Week 1	• Introduction to organosulphur compounds • Nomenclature, structural features, methods of formation and chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine • Synthetic detergents alkyl and aryl sulphonates • Problems of the students for Organosulphur Compounds	Question answer Discussion	
6	Week 2	Holi Vacation		

7	Week 3	• Introduction to enolates • Acidity of α-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate • Synthesis of ethyl acetoacetate – the Claisen condensation • Keto-enol tautomerism of ethyl acetoacetate • Problems of the students for Enolates	Group Discussion	
8	Week 4	• Introduction to polymers • Addition or chain growth polymerization, free radical vinyl polymerization, ionic vinyl polymerization, Zeigler-Natta polymerization and vinyl polymers	Assignment 1	
9	Week 5	• Condensation or step-growth polymerization • Polyesters, polyamides, phenol-formaldehyde resins, urea formaldehyde resins, epoxy resins and polyurethanes • Natural and Synthetic rubbers • Problems of the students for Polymers	Class-test I	
10	**April** Week 1	• Introduction to amino acids, peptides and proteins, Acid-base behavior, isoelectric point and electrophoresis • Preparation of α-amino acids • Structure and nomenclature of peptides and proteins • Classification of proteins • Peptide structure determination, end-group analysis, selective hydrolysis of peptides		
11	Week 2	• Classical peptide synthesis • Solid phase peptide synthesis • Structures of peptides and proteins: Primary and Secondary structure • Problems of the students for Amino acids, peptides and proteins	Question answer Discussion	
12	Week 3	• Definition, nomenclature and classification of organometallic compounds • Preparation, properties and bonding of alkyls of Li, Al, Hg and Sn • A brief account of metal-ethylenic complexes	Group Discussion	
13	Week 4	• Mononuclear carbonyls and nature of bonding in metal carbonyls • Problems of the students for organometallic compounds • Different concepts of acids and bases: Arrhenius, Bronsted-Lowry, the Lux flood and Lewis concept of acids and bases	Assignment 2	

		Lesson Plan – 2022-2023 (Even Semester) **Chemistry (Organic and Inorganic Chemistry)**		

14	**May** Week 1	• Relative strength of acids and bases • Concept of soft and hard acids and bases, Symbiosis • Electronegativity and hardness and softness • Problems of the students for acids and bases • Introduction to bioinorganic Chemistry • Essential and trace elements in biological processes	Class Test 2	
	Week 2	• Metalloporphyrins with special reference to Haemoglobin and Myoglobin • Biological role of alkali and alkaline earth metal ions with special reference to Ca^{2+} • Nitrogen Fixation • Introduction to silicones and phosphazenes • Preparation of silicones and phosphazenes •		
	Week 3	• Properties of silicones and phosphazenes • Structure of silicones and phosphazenes • Uses of silicones and phosphazenes • Problems of the students forBioinorganic Chemistry and Silicones and Phosphazenes		
	Week 4	• Revision of Inorganic Chemistry		
	Week 5	• Revision of Organic Chemistry		

Lesson Plan – 2022-2023 (Even Semester)
Chemistry (Organic Chemistry)

Class: B.Sc.I   **Semester –II**
Session:2022-2023 (February - May 2023)   **Name of Teacher: Dr. Meena Kumari**

20UCHE201: Unit III & IV: Aromatic Hydrocarbons and Alkyl and Aryl Halides

20UCHE202: Unit III: Functional Group Organic Chemistry -I

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	**February** Week-1	• Introduction to the syllabus and examination pattern • Introduction to Aromatic Hydrocarbons • Preparation Methods (Case Benzene): From Phenol, by decarboxylation, from acetylene, from benzene sulphonic acid		
2	Week-2	• Electrophilic Substitution reactions (case Benzene): Halogenation, Nitration, Sulphonation, Friedel Craft Reaction (Alkylation and Acylation) (upto 4 carbons on benzene) • Side chain oxidation of alkyl benzenes (upto 4 carbons on benzene) • Problems of the students from alkyl and aryl halides		
3	Week 3	• Introduction of Alkyl and Aryl Halides • Types of Nucleophilic Substitution Reactions (SN^1, SN^2 and SN^i) • Preparation of alkyl halides (upto 5 carbons): from alkenes and alcohols		
4	Week 4 & 5	• Reactions of Alkyl Halides: Hydrolysis, Nitrite and Nitro formation, Nitrile and isonitrile formation		
5	**March** Week 1	• Williamson's Ether synthesis: Elimination vs Substitution		
6	Week 2	Holi Vacation		
7	Week 3	• Preparation of Aryl halides (Chloro, bromo and iodo benzene case): from phenols, Sandmeyer& Gattermann reactions	Group Discussion	
8	Week 4	• Recations of Chlorobenzene: Aromatic nucleophilic substitution (replacement by -OH group) and effect of nitro substituent	Assignment 1	
9	Week 5	• Benzyne mechanism: KNH_2/NH_3 OR $NaNH_2/NH_3$ • Reactivity and relative strength of C-halogen bond in alkyl, allyl, benzyl, vinyl and aryl halides • Problems of students from alkyl and aryl halides	Class-test I	

		Lesson Plan – 2022-2023 (Even Semester) **Chemistry (Organic Chemistry)**		
10	**April** Week 1	• Introduction to alcohols • Preparation of $1^o, 2^o$ and 3° alcohols: using Grignard reagent, ester hydrolysis, reduction of aldehydes, ketones, carboxylic acids and esters		
11	Week 2	• Reactions of alcohols: with sodium, HX (Lucas's test), esterification, oxidation (with PCC, alkaline $KMnO_4$, acidic dichromate and Conc. HNO_3, Oppeneaur oxidation	Question answer Discussion	
12	Week 3	• Diols (upto 6 carbons): oxidation of diols, pinacol-pinacolone rearrangement	Group Discussion	
13	Week 4	• Introduction of phenols • Preparations (Phenol case): Cumene hydroxide method, from diazonium salts • Electrophilic Substitution reactions: Nitration, Halogenation and sulphonation	Assignment 2	
14	May Week 1	• Reimer Tiemann reaction, Gattermann - Koch reaction, Houben Housch Condensation	Class Test 2	
	Week 2	• Schotten Baumann recation • Introduction of ethers (aliphatic and aromatic)		
	Week 3	• Cleavage of ethers with HI • Problems of the students from alcohols and phenols		
	Week 4	• Revision of Aromatic hydrocarbons, alkyl and aryl halides		
	Week 5	• Revision of Alcohols, phenols and ethers		

Lesson Plan – 2022-2023 (odd Semester)
ChemistryPractical

Class: B.Sc.I   **Semester –I**

Session:2022-2023 (September–December, 2022)   **Name of Teacher: Dr. Meena Kumari**

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 1 &2	• Introduction to practical syllabus, marking pattern • About precautions to be taken in lab, common equipments to be used, name of various glasswares, organization of chemicals in laboratory and common instructions for practicals		
2	Week-3	• Estimation of oxalic acid by titarting it with $KMnO_4$. • File Preparation		
3	Week 4 & 5	• Estimation of water of crystallization in Mohr's salt by titarting it with $KMnO_4$. • File Preparation		
4	October Week 1	• Estimation of Fe(II) ions by titarting it with $K_2Cr_2O_7$ using internal indicator. • File Preparation		
5	Week 2	• File checking • Preparation of viva-voce from inorganic section		
6	Week 3	• Determination of surface tension of given liquid using a stalagmometer by drop weight method • File Preparation	Discussion on practical applications of these practicals	
7	Week 4	• Diwali Vacation		
8	November Week 1	• Determination of surface tension of given liquid using a stalagmometer by drop number method • File Preparation	Viva-voce mock test 1	
9	Week 2	• Determination of relative viscosity of given liquid/dilute solution using an Ostwald's Viscometer. • File Preparation		
10	Week 3	• File checking • Preparation of viva-voce from Physical chemistry practical section		

Lesson Plan – 2022-2023 (odd Semester)
ChemistryPractical

11	Week 4& 5	- To study the process of sublimation of Camphor. - To study the process of sublimation of Pthalic acid - File Preparation		
12	December Week 1& 2	- To identify and separate the components of a given mixture of two amino acids by paper chromatography - File Preparation		
13	Week 3	- To identify and separate the sugars from a given mixture by paper chromatography. - File Preparation	Viva-voce mock test 2	
14	Week 4	- File checking - Preparation of viva-voce from organic chemistry practical section		
15	Week 5	Students Doubts		

पाठ-योजना

कक्षा- स्नातक,द्वितीय वर्ष (तृतीय सत्र)

सेमेस्टर-   (सिंतबर-दिसंबर, **2022-2023**)

नाम - **क**मलेश,सहायक प्रोफेसर,हिन्दी

Sr. No.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅं	टिप्पणी
1	सिंतबर सप्ताह द्वितीय	भारतेंदु हरिशचंद्र का साहित्यिक परिचय 'निज भाषा उन्नति अहै 'कविता की व्याख्या 'प्रेम माधुरी 'कविता की व्याख्या		
2	सप्ताह तृतीय	'निज भाषा उन्नति अहै ',प्रेम माधुरी'कविता के आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर	---	
3	सप्ताह चतुर्थ	अयोध्यासिंह उपाध्याय 'हरिऔध' का साहित्यिक परिचय 'पवनदूती' कविता की व्याख्या 'वें मुस्काते फूल' कविता की व्याख्या आलोचनात्मक प्रश्न-उत्तर	---	

4	अक्टूबर सप्ताह प्रथम	लघूत्तरात्मक प्रश्न-उत्तर 'पवनदूती' कविता के आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर मैथिलीशरण गुप्त का साहित्यिक परिचय 'आर्य्य स्त्रियाँ' कविता की व्याख्या	---	
5	सप्ताह द्वितीय	'यशोधरा' कविता की व्याख्या 'संदेश यहां मैं नहीं स्वर्ग का लाया' कविता की व्याख्या आलोचनात्मक प्रश्न-उत्तर	असाइनमेंट -1	
6	सप्ताह तृतीय	लघूत्तरात्मक प्रश्न-उत्तर जयशंकर प्रसाद का साहित्यिक परिचय 'श्रद्धा सर्ग' की व्याख्या	टैस्ट - 1	
7	सप्ताह चतुर्थ	दिवाली अवकाश	---	

8	नवंबर सप्ताह प्रथम	'हिमाद्री तुंग-श्रृंग' कविता की व्याख्या 'बीती विभावरी जाग री' कविता की व्याख्या आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर	--	
9	सप्ताह द्वितीय	सूर्यकांत त्रिपाठी निराला की साहित्यिक परिचय 'विधवा' कविता की व्याख्या 'वीणा वादिनी' कविता की व्याख्या 'जागो फिर एक बार ' (1)कविता की व्याख्या	---	
10	सप्ताह तृतीय	'जागो फिर एक बार '(2)कविता की व्याख्या आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर महादेवी वर्मा का साहित्यिक परिचय		

11	सप्ताह चतुर्थ	'कह दे माँ क्या अब देखूँ ' कविता की व्याख्या 'कौन तुम मेरे हृदय में' कविता की व्याख्या 'मैं नीर भरी दुख की बदली'! कविता की व्याख्या		
12	दिसंबर सप्ताह प्रथम	नागार्जुन का साहित्यिक परिचय 'उनको प्रणाम' कविता की व्याख्या 'गुलाबी चुड़ियाँ' कविता की व्याख्या	असाइनमेंट - 2	
13	सप्ताह द्वितीय	आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर नरेश महता का साहित्यिक परिचय	टैस्ट - 2	
14	सप्ताह तृतीय	'समय देवता' कविता की व्याख्या 'अरण्यानी से वापसी' कविता की व्याख्या आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर		
15	सप्ताह चतुर्थ	पुनरावृती	---	

पाठ-योजना

कक्षा-स्नातक, तृतीय वर्ष (पंचम सत्र)

सेमेस्टर- (सिंतबर-दिसंबर, 2022)

नाम - **क**मलेश,सहायक प्रोफेसर,हिन्दी

Sr. No.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	टिप्पणी
1	सिंतबर सप्ताह द्वितीय	सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय' का साहित्यिक परिचय 'हमारा देश' 'नदी के द्वीप' 'कितनी नावों मे कितनी बार' 'नाच' 'यह दीप अकेला' 'सूनी सी सांझ एक 'साँप' 'उड़ चल,हारिल' संप्रसंग व्याख्या		
2	सप्ताह तृतीय	आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर अति लघूत्तरात्मक प्रश्न-उत्तर धर्मवीर भारती का साहित्यिक परिचय	---	

3	सप्ताह चतुर्थ	'रथ का टूटा पहिया'	---	
		'फागुन की शाम'		
		'फूल,मोमबत्तियाँ,सपने'		
		'बोआई का गीत'		
		'गुलाम बनाने वाले'		
		'थके हुए कलाकार से		
		'विप्रलब्धा'- संप्रसंग व्याख्या		
4	अक्टूबर सप्ताह प्रथम	आलोचनात्मक प्रश्न-उत्तर	---	
		लघूत्तरात्मक प्रश्न-उत्तर		
		अति लघूत्तरात्मक प्रश्न-उत्तर		
		नरेश मेहता का साहित्यिक परिचय		
5	सप्ताह द्वितीय	'मंत्र-गंध और भाषा'	असाइनमेंट -1	
		'अरण्यानी से वापसी' - संप्रसंग व्याख्या		
		आलोचनात्मक प्रश्न-उत्तर		
6	सप्ताह तृतीय	लघूत्तरात्मक प्रश्न-उत्तर	- टैस्ट- 1	
		नागार्जुन का साहित्यिक परिचय		
		'उनको प्रणाम'		
		'सिंदुर-तिलकित भाल'		
7	सप्ताह चतुर्थ	दिवाली अवकाश	---	

8	नवंबर सप्ताह प्रथम	'बादल को घिरते देखा' 'अकाल और उसके बाद' 'प्रेत का बयान' - संप्रसंग व्याख्या आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर	--	
9	सप्ताह द्वितीय	रघुवीर सहाय का साहित्यिक परिचय 'लोकतंत्र का संकट' 'चिड़ियां' 'भाषा का युद्ध' 'धूप 'रामदास' 'कोई एक और मतदाता' 'काला नंगा बच्चा पैदल' 'आत्महत्या के विरुद्ध' 'चिथडा-चिथडा मैं' -संप्रसंग व्याख्या	---	

10	सप्ताह तृतीय	आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर कुंवर नारायण का साहित्यिक परिचय 'चक्रव्यूह' 'एक जले हुए मकान के सामने		
11	सप्ताह चतुर्थ	'जब आदमी आदमी नही रह पाता' - संप्रसंग व्याख्या आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर लीलाधर जगूड़ी का साहित्यिक परिचय 'वृक्ष हत्या' 'परिवार की खाड़ी मे' - संप्रसंग व्याख्या		
12	दिसंबर सप्ताह प्रथम	'स्वतंत्र जुबान' 'ईश्वर और आदमी की बातचीत' 'जो ठोकर खाते है' 'बहुत से पत्थर पड़े हैं - संप्रसंग व्याख्या आलोचनात्मक प्रश्न-उत्तर	असाइनमेंट - 2	

13	सप्ताह द्वितीय	लघूत्तरात्मक प्रश्न-उत्तर	टैस्ट - 2	
		आधुनिक हिन्दी साहित्य की परिस्थितियां		
		भारतेन्दुयुगीन हिंदी कविता की विशेषताएँ		
		द्विवेदी युगीन हिंदी कविता की विशेषताएँ		
		छायावाद का अर्थ,परिभाषा,विशेषताएँ		
14	सप्ताह तृतीय	प्रगतिवाद हिंदी कविता की विशेषताएँ		
		प्रयोगवाद हिंदी कविता की विशेषताएँ		
		नयी कविता की विशेषताएँ		
		समकालीन कविता की विशेषताएँ		
		पत्र लेखन ,संक्षेपण,पल्लवन		
15	सप्ताह चतुर्थ	पुनरावृति	---	

पाठ-योजना

कक्षा-स्नातक,प्रथम वर्ष (प्रथम सत्र)

सेमेस्टर- (सिंतबर-दिसंबर, 2022)

नाम - कमलेश,सहायक प्रोफेसर,हिन्दी

Sr. No.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	टिप्पणी
1	सिंतबर सप्ताह द्वितीय	हिन्दी साहित्य के आदिकाल का नामकरण एंव काल विभाजन आदिकालीन हिन्दी साहित्य की परिस्थितियां आदिकाल की विशेषताएं रासो काव्य परंपरा		
2	सप्ताह तृतीय	आदिकालीन काव्य धाराएँ:- सिद्ध,नाथ,जैन साहित्य पृथ्वीराज रासो की प्रामाणिकता और अप्रामाणिकता लघूत्तरात्मक प्रश्न-उत्तर	---	

3	सप्ताह चतुर्थ	मध्यकालीन भक्ति आंदोलन की पृष्ठभूमि कबीरदास का साहित्यिक परिचय/योगदान गुरुनानक देव का साहित्यिक परिचय रविदास का साहित्यिक परिचय	---	
4	अक्टूबर सप्ताह प्रथम	तुलसीदास का साहित्यिक परिचय मीराबाई का साहित्यिक परिचय भक्तिकाल की विशेषताएँ संत काव्य धारा की विशेषताएँ सूफी काव्यधारा की विशेषताएँ	---	
5	सप्ताह द्वितीय	राम काव्य की विशेषताएँ कृष्ण काव्य की विशेषताएँ लघूत्तरात्मक प्रश्न-उत्तर	असाइनमेंट -1	
6	सप्ताह तृतीय	रीतिकाल की विशेषताएँ रीतिकाल की परिस्थितियां रीतिमुक्त काव्यधारा की विशेषताएँ	टैस्ट-1	
7	सप्ताह चतुर्थ	दिवाली अवकाश	---	

8	नवंबर सप्ताह प्रथम	रीतिसिद्ध काव्यधारा की विशेषताएँ बिहारी सतसई के काव्य सौष्ठव का परिचय रीतिकाल का नामकरण रीतिबद्ध काव्य धारा की विशेषताएँ	--	
9	सप्ताह द्वितीय	लघूत्तरात्मक प्रश्न-उत्तर हिन्दी नवजागरण मे 1857 के स्वतंत्रता संघर्ष की भूमिका भारतेंदु साहित्य की प्रमुख विशेषताएँ महावीरप्रसाद द्विवेदी का परिचय	---	
10	सप्ताह तृतीय	मैथिलीशरण गुप्त का साहित्यिक परिचय द्विवेदी युग की विशेषताएँ छायावादी काव्य की विशेषताएँ लघूत्तरात्मक प्रश्न-उत्तर		
11	सप्ताह चतुर्थ	प्रयोगवाद काव्य की विशेषताएँ प्रगतिवाद काव्य की विशेषताएँ द्विवेदीयुगीन प्रमुख गद्य लेखकों एंव कवियों का परिचय		

12	दिसंबर सप्ताह प्रथम	हिन्दी उपन्यास का उद्भव एंव विकास हिन्दी कहानी का उद्भव और विकास	असाइनमेंट - 2	
13	सप्ताह द्वितीय	हिन्दी नाटक का उद्भव एंव विकास हिन्दी निबंध का उद्भव एंव विकास नई कविता का परिचय,प्रमुख विशेषताएँ	टैस्ट - 2	
14	सप्ताह तृतीय	द्विवेदीयुगीन राष्ट्रीय काव्यधारा के फलने-फूलने में मैथिलीशरण गुप्त की भूमिका लघूत्तरात्मक प्रश्न-उत्तर		
15	सप्ताह चतुर्थ	पुनरावृत्ति	---	

पाठ-योजना

कक्षा-स्नातक,प्रथम वर्ष (प्रथम सत्र)- **हिन्दी भाषा और सम्प्रेषण**

सेमेस्टर- (सिंतबर-दिसंबर, 2022)

नाम - **कमलेश,**सहायक प्रोफेसर,हिन्दी

Sr. No.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	टिप्पणी
1	सिंतबर सप्ताह 2	भाषा की परिभाषा, प्रकृति एवं विविध रूप		
2	सप्ताह 3	हिंदी भाषा की विशेषताएं- क्रिया, विभक्ति, सर्वनाम, विशेषण एवं अव्यय संबंधी	---	
3	सप्ताह 4	उपसर्ग,, प्रत्यय, पर्यायवाची शब्द	---	
4	अक्टूबर सप्ताह 1	विलोम शब्द, अनेक शब्दों के लिए एक शब्द, शब्द शुद्धि, वाक्य शुद्धि	---	
5	सप्ताह 2	हिन्दी की वर्ण व्यवस्था- स्वर एवं व्यंजन	असाइनमेंट -1	
6	सप्ताह 3	स्वर के प्रकार- ह्स्व, दीर्घ तथा संयुक्त	मासिक परीक्षा - 1	
7	सप्ताह 4	दिवाली अवकाश	---	

8	नवंबर सप्ताह 1	व्यंजन के प्रकार- स्पर्श, अन्तस्थ, ऊष्म, अल्पप्राण, महाप्राण, घोष तथा अघोष	--	
9	सप्ताह 2	वर्णो का उच्चारण स्थान- कण्ठय, तालव्य, मूर्द्वन्य, दन्त्य, ओष्ठय, तथादन्तोष्ठय,	---	
10	सप्ताह 3	संधि की परिभाषा और भेद		
11	सप्ताह 4	समास की परिभाषा और भेद		
12	दिसंबर सप्ताह 1	मुहावरे और लोकोक्तियां, अलंकार- परिभाषा और भेद	असाइनमेंट - 2	
13	सप्ताह 2	सम्प्रेषण अर्थ, परिभाषा एवं प्रक्रिया, भाषा सम्प्रेषण के चरण- श्रवण, अभिव्यक्ति, वाचन तथा लेखन	मासिक परीक्षा - 2	
14	सप्ताह 3	हिन्दी वाक्य रचना, वाक्य और उपवाक्य, वाक्य भेद, वाक्य का रूपांतर		
15	सप्ताह 4	भावार्थ और व्याख्या, आशय लेखन-	---	

Govt. College For Women ,Badhra

Teaching Plan – Algebra

Class: B.A/B.ScI (First Semester)

Semester:I (September–December, 2022)

Name of Teacher: MrKamal

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Definition of matrix and there types. Elementary operations on matrix. Rank of matrix. Inverse of matrix.	Discuss on based problems.	
2	Week 3	Linear dependence and linear independence of row and column of matrix.Row rank and Column rank of matrix. Characteristics equation and eigen value of matrix..	---	
3	Week 4	Eigen vector of matrix. Minimal polynomial, Cayley Hamilton theorem .	---	
4	October Week 1	Its uses to find inverse of matrix. Applications of matrices to a system of Linear equations. Non Homogeneous	---	
5	Week 2	Solution of system of linear homogeneous Equations. Bilinear form, Canonical form of a Bilinear form.	Assignment 1	
6	Week 3	Quadratic forms, Matrix notation of a Quadratic form, linear transformation of a quadratic form.	Class Test 1	
7	Week 4	Diwali vacation	---	

Govt. College For Women ,Badhra

8	November Week 1	Relation between the roots and coefficients of general polynomial equation in one variable. Fundamental theorem of algebra	--	
9	Week 2	To find the condition that the roots of the given equation satisfy a given relation. Transformation of equation.	---	
10	Week 3	Transformation of cubic equation. Transformation in general.		
11	Week 4	Solution of Cubic and Biquadratic equations.Carden's method.		
12	December Week 1	Descarte'ssolution of the Biquadratic equation.Ferrari's method.	Assignment 1	
13	Week 2	Descarte's rule of signs	Class Test 2	
14	Week 3	revision		
15	Week 4	revision	---	

Teaching Plan –

Class: M.A 1st

Semester – 1st   (July – November 2023)

Name of Teacher: JITENDER KUMAR, Sub :- Western Political Thought (Odd Sem)

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Exam Duty		
2	Week 4	Exam Duty	---	
3	August Week 1	Exam Duty	---	
4	Week 2	Exam Duty	---	
5	Week 3	1) Plato		
6	Week 4	2) Aristotle		
7	Week 5	Revision	---	
8	September Week 1	3) St. Augustin		
9	Week 2	4) St. Thomas Aquinas	Assignment 1	
10	Week 3	5) Niccalo Machiavelli	Class Test 1	
11	Week 4	6) Thomas Hobbes		
12	October Week 1	St.Thomasaquins ,Niccalo Machiavelli 7) Jhonlock		
13	Week 2	8) Jean Jacques Rousseau		
14	Week 3	9) Jeremy Bentham	Assignment 2	
15	Week 4	Revision	Class Test 2	
16	November Week 1	Jeremy Bentham 10) John Stuart mill		
17	Week 2	Revision		
18	Week 3	Diwali Vacation		
19	Week 4	Revision		

20	December Week 1	Revision		

पाठ-योजना

कक्षा-स्नातक,प्रथम वर्ष (प्रथम सत्र)हिन्दी साहित्य का इतिहास

सेमेस्टर- (सिंतबर-दिसंबर, 2022)

नाम -मीना,सहायक प्रोफेसर,हिन्दी

क्रम सं.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅं	टिप्पणी
1	सिंतबर सप्ताह द्वितीय	हिन्दी साहित्य के आदिकाल का नामकरण एंव काल विभाजन आदिकालीन हिन्दी साहित्य की परिस्थितियाँ आदिकाल की विशेषताएँ रासो काव्य परंपरा		
2	सप्ताह तृतीय	आदिकालीन काव्य धाराएँ:- सिद्द,नाथ,जैन साहित्य पृथ्वीराज रासो की प्रामाणिकता और अप्रामाणिकता लघूत्तरात्मक प्रश्न-उत्तर	---	

3	सप्ताह चतुर्थ	मध्यकालीन भक्ति आंदोलन की पृष्ठभूमि कबीरदास का साहित्यिक परिचय/योगदान गुरुनानक देव का साहित्यिक परिचय रविदास का साहित्यिक परिचय	---	
4	अक्टूबर सप्ताह प्रथम	तुलसीदास का साहित्यिक परिचय मीराबाई का साहित्यिक परिचय भक्तिकाल की विशेषताएँ संत काव्य धारा की विशेषताएँ सूफी काव्यधारा की विशेषताएँ	---	
5	सप्ताह द्वितीय	राम काव्य धारा की विशेषताएँ कृष्ण काव्य धारा की विशेषताएँ लघूत्तरात्मक प्रश्न-उत्तर	असाइनमेंट -1	
6	सप्ताह तृतीय	रीतिकाल की विशेषताएँ रीतिकाल की परिस्थितियाँ रीतिमुक्त काव्यधारा की विशेषताएँ	टैस्ट-1	
7	सप्ताह चतुर्थ	दिवाली अवकाश	---	

8	नवंबर सप्ताह प्रथम	रीतिसिद्ध काव्यधारा की विशेषताएँ बिहारी सतसई के काव्य सौष्ठव का परिचय रीतिकाल का नामकरण रीतिबद्ध काव्य धारा की विशेषताएँ	--	
9	सप्ताह द्वितीय	लघूत्तरात्मक प्रश्न-उत्तर हिन्दी नवजागरण मे 1857 के स्वतंत्रता संघर्ष की भूमिका भारतेंदु साहित्य की प्रमुख विशेषताएँ महावीरप्रसाद द्विवेदी का परिचय	---	
10	सप्ताह तृतीय	मैथिलीशरण गुप्त का साहित्यिक परिचय द्विवेदी युग की विशेषताएँ छायावादी काव्य की विशेषताएँ लघूत्तरात्मक प्रश्न-उत्तर		
11	सप्ताह चतुर्थ	प्रयोगवाद काव्य की विशेषताएँ प्रगतिवाद काव्य की विशेषताएँ द्विवेदीयुगीन प्रमुख गद्य लेखकों एंव कवियों का परिचय		

12	दिसंबर सप्ताह प्रथम	हिन्दी उपन्यास का उद्भव एंव विकास हिन्दी कहानी का उद्भव और विकास	असाइनमेंट - 2	
13	सप्ताह द्वितीय	हिन्दी नाटक का उद्भव एंव विकास हिन्दी निबंध का उद्भव एंव विकास नई कविता का परिचय,प्रमुख विशेषताएँ	टैस्ट - 2	
14	सप्ताह तृतीय	द्विवेदीयुगीन राष्ट्रीय काव्यधारा के फलने-फूलने में मैथिलीशरण गुप्त की भूमिका लघूत्तरात्मक प्रश्न-उत्तर		
15	सप्ताह चतुर्थ	पुनरावृत्ति	---	

Teaching Plan – 2022-2023

Class: B.Sc. II   **Semester: 3rd (Sept–Dec2022)**

Subject: Chemistry PracticalPaper: 20UCHE303

Name of Teacher: Pardeep Kumar Jangra

Sr. No.	Month	Experiments
1	Sept. Week 2	General discussion on topics of Chemistry Practical.
2	Week 3	**Complexometrictitrations:**DeterminationofMg^{2+}byEDTA.
3	Week 4	**Complexometrictitrations:**Determinationof Zn^{2+} byEDTA.
4	October Week 1	**Gravimetric Analysis:** Quantitative estimations of Cu^{2+} ascopperthiocyanate
5	Week 2	**Gravimetric Analysis:** Quantitative estimations Ni^{2+}asNi-dimethylglyoxime.
6	Week 3	**Preparationandpurificationthroughcrystallizationordistillationandas certainingtheir puritythroughmeltingpointorboilingpoint:** i. m-Dinitrobenzenefromnitrobenzene
7	Week 4	**Diwali vacation**
8	Nov. Week 1	**Preparationandpurificationthroughcrystallizationordistillationandas certainingtheir puritythroughmeltingpointorboilingpoint:** ii. Dibenzalacetonefromacetoneandbenzaldehyde
9	Week 2	**Preparationandpurificationthroughcrystallizationordistillationandas certainingtheir puritythroughmeltingpointorboilingpoint:** iii. Aspirinfromsalicylicacid
10	Week 3	**Preparationofsolidderivativesofthefollowingorganic compounds:** Naphthalene, anthracene, acenaphthene, benzyl chloride .
11	Week 4	**Preparationofsolidderivativesofthefollowingorganic compounds:** p-dichlorobenzene,m-dinitrobenzene,p-nitrotoluene,resorcinol, hydroquinone.
12	Dec. Week 1	**Preparationofsolidderivativesofthefollowingorganic compounds:**α-naphthol,β-naphthol,benzophenone,ethylmethylketone,benzaldehyde.

13	Week 2	**Preparationofsolidderivativesofthefollowingorganic compounds:** oxalicacid,succinic acid, benzoic acid,salicylic acid, aspirin, phthalic acid, cinnamic acid.
14	Week 3	**Preparationofsolidderivativesofthefollowingorganic compounds:** benzamide, urea, acetanilide, benzanilide.
15	Week 4	**Preparationofsolidderivativesofthefollowingorganic compounds:**glucose, fructose,sucrose,o-,m-,p-nitroanilines andthiourea.

Lesson Plan – Basics of Computer (IT Level-II)

Class: B.A.

Semester: 3rd Semester (7 Sep 2022- 23 Dec 2022)

Name of Teacher: Sh. Lalit Singh, Computer Instructor

Week 1(7 Sep-11 Sep) Introduction of Computers, Definition of Computer, Block Diagram of Computer, Get familiar with computer parts and use of keyboard and mouse.
Week 2(12 Sep- 18 Sep) Components of Computer, Characteristics of Computers, Limitation of Computer, Human being VS Computer, Change Date and Time Setting.
Week 3(19 Sep-25 Sep)   Classification of Computers-According to Purpose, According to Technology, According to Size and Storage Capacity, Application of Computer in various field, Revision.
Week 4(26 Sep- 2 Oct) Introduction to Windows Operating System, Types of Operating System, Functions of Operating System, Features of Windows Operating System, Creating Files and Folders, Managing File and Folders.
Week 5(3 Oct- 9 Oct) Computer Software, Types of Software, Proprietary and Open Source Software.   Basics of Windows:- Basic Components of Windows, Icons, Type of Icons, Taskbar, Activating Windows.
Week 6(10 Oct-16 Oct) Input Devices, Mouse, Keyboards, Light Pen, Track Ball, Joystick, MICR, Optical Mark Reader and Optical Character reader, Scanners, Voice system, Web Camera, Title bar, exploring Computer, managing files and folders, copying and moving files and folders.
Week 7(17 Oct- 23 Oct) Output Devices, Hard Copy, Output Devices, Line Printers, Character Printers, Chain Printers, Dot-Matrix Printers, Daisy Wheel Printer, Laser Printer, Inkjet Printers, Plotters,   Soft Copy Device – Monitor, Sound Card and Speakers, Revision.
Week 8(24 Oct-30 Oct)   Diwali Break.
Week 9(31 Oct-6 Nov) Control Panel:- Display Property, Adding and removing hardware and software, Setting date and time, Screensaver and appearance, using windows accessories.
Week 10(7 Nov-13 Nov) Memory and Mass Storage Devices, Characteristics of Memory Systems, Memory Hierarchy, Changing Desktop Wallpaper and also applying Screen Saver, Create a document with formatting.
Week 11(14 Nov-20 Nov) Types of Primary Memory, RAM and ROM, Secondary and Back-up, Magnetic Disks, Characteristics and Classification of Magnetic Disk, Optical Disk, Magnetic Tape. Program to create folder on desktop. Revision and Test.
Week 12(21Nov-27 Nov) Computer Viruses:- Definition, Type of Viruses, Characteristics of virus, antivirus software's, Change desktop icon setting using windows, Program to manage files and folders.
Week 13(28 Nov-4 Dec) Overview of Networking:- Introduction to Network, Type of Network, Network Topologies, Mode of Data Transmission, Transmission Media.
Week 14(5 Dec-11 Dec) Introduction to Internet, Application of Internet, Hardware and Software requirement for internet, Create personal E-mail account, working with E-mail, setup sleep mode in windows.
Week 15(12 Dec-18 Dec) Application of Intranet, World wide web, Web Browsers.
Week 16(19 Dec-23 Dec) Search engines, Understanding URL, Domain Name, Revision of syllabus.

Teaching Plan – Human Resource Management

Class: Bcom 2nd year

Semester –3 (September–December, 2022)

Name of Teacher: Manisha

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	An Introduction to Human Resource Management Definition, Importance objectives and scope of Human Resource Management (HRM).		
2	Week 3	Functions of Human Resource Management: Managerial and Operative Functions Qualification and Qualities of Human Resource manager in an organization.	---	
3	Week 4	Evolution and Growth of Human Recourse Management (HRM) in India, Emerging Challenges of HRM-work force diversity, downsizing, work life balance etc.	---	

4	October Week 1	Recruitment Selection and Training, Recruitment: Meaning, steps in recruitment policy, sources and modes of recruitment, Factors affecting recruitment.	---	
5	Week 2	Selection: Meaning, Essentials of Selection. Procedure, Stages in Selection Procedure.	Assignment 1	
6	Week 3	Training: - Concept, Need and importance of Training. Methods of Training: On the job Training + off the job Training. Principles of training, Evaluation off training Programme in India. Job analysis, Job Description and Joh specification.	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Wage and Wage Incentives, Wages: Meaning, Objective and Theories of wages, Methods of wage Payment	--	
9	Week 2	Time wages and Piece wages methods Concept of wages: Fair. Minimum and Living wage.	---	

10	Week 3	Factors determining wage Structure of an organization, Essentials of satisfactory wage policy.		
11	Week 4	Wage Incentives: Concept, Need and Importance of Incentives Special Incentives, Essentials of Ideal Incentives system.		
12	December Week 1	Industrial Relations: Concept. Importance and Objectives of industrial relations, Contents of industrial relations Participants of Industrial relation and Recruitment of good Industrial relation Programme.	Assignment 1	
13	Week 2	Unit-IV Industrial Relations: Concept. Importance and Objectives of industrial relations, Contents of industrial relations Participants of Industrial relation and Recruitment of good Industrial relation Programme. Industrial Unrest: Meaning, Forms and Causes of industrial disputes, Impact of Industrial unrest on the Economy,	Class Test 2	

14	Week 3	preventive and curative methods and Agencies for Reconciliation of Industrial unrest. Labour courts for disputes in India.		
15	Week 4	Basic Understanding of Legal framework for the Empowerment of the Workers	---	

Teaching Plan – 2022-23

Class: M.Sc Preivious (Geomorphology)

Semester – Ist Sem.   (September–December, 2022)

Name of Teacher: SH. Tasvir Singh

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Geomorphology: - Nature and Concept, Scope,Basic Principal of Geomorphology.		
2	Week 3	Basie Principal of Geomorphology, Climatogenétic geomorpholog, Concepts of threshold	---	
3	Week 4	Concepts of Magnitude. Recent trends in geomorphology	---	
4	October Week 1	Continental drift theory and its basic consideration: Plate tectonics- Plate margins and boundaries, movement and distribution of Plates.	---	
5	Week 2	Tectonics activities along the boundaries. Earthquake - Causes, classification, intensity and magnitude, geographical distribution.	Assignment 1	
6	Week 3	Valcanism: mechanism and causes, classification and geographical distribution. Classification of geomorphic Process:- Exogenetic Processes, Endogenetic Processes-	Class Test 1	
7	Week 4	Diwali vacation	---	

8	November Week 1	Enodogenetic processes: - Faulting and 1 their geomorphic expression	--	
9	Week 2	Envlogenetic processes:-folding and their gemorphic expression.	---	
10	Week 3	Exogenetic processes :- weathering- causes, Types of weathering, mechanical, chemical and biological.		
11	Week 4	Rock weathering and soil formation.Mass movement: - causes and classification		
12	December Week 1	Mass movement: - Types of mass movement, Slow Mass movements	Assignment 1	
13	Week 2	Rapid mass movements. Hillslope analysis technique and theories, mode and rate of slope retreat,	Class Test 2	
14	Week 3	Applied geomorpholog :- Meaning & concept, sole of geomorpholog in environmental management, geo- morphic processes and resulting landforms: - Fluvial,		
15	Week 4	Landforms:- Glacial, Acalian and Karst	---	

Teaching Plan – DiSTRIBUTION MAPS AND DIAGRAMS (PRACTICAL)

Class: B.A III

Semester – 5TH (September–December, 2022)

Name of Teacher: SANJAY KUMAR

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Principles of map Design and Layout , Techniques of MAP making		
2	Week 3	Three stages of map making and map making Symbolzation-Piont, Line, Area Symbol	---	
3	Week 4	Distribution MAPS: Qualitative Distribution MAPS	---	
4	October Week 1	Cuantitative Distribution MAPS - Isopleth, Cholopleth	---	
5	Week 2	Quantitative Distibution MAPS. DOT and Diagramatic method	Assignment 1	
6	Week 3	Dilgeematic method-, squrare, circles, spheres and others.	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Prismatic Compass survey Different parts of Prismatic Com Pass and their function Precaution In use of Prismatic compass survey	--	
9	Week 2	Importance of survey Function and Types of survey And compass survey	---	
10	Week 3	Prismatic compass survey RADIATION METHOD		

11	Week 4	PRISMATIC COMPASS Survey INTERSECTION METHOD		
12	December Week 1	correction in Bearings, merits and Demerits of Prismatic compass survey	Assignment 1	
13	Week 2	Preparation and making of Practical sheet	Class Test 2	
14	Week 3	Preparation and making of Practical sheet		
15	Week 4	Preparation and making of Practical sheet	---	

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Teaching Plan – Real Analysis

Class: BA/B.Sc III

Semester:V (September–December, 2022)

Name of Teacher: Mr Kamal

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Topology of Real Numbers, Theorems on Upper and Lower sums. Definition of Riemann Integral.		
2	Week 3	Darboux's Theorem, conditions of Integrability , integrability of continuous functions.	---	
3	Week 4	Integrability of monotonic functions, Riemann Sum, Properties of Riemann integral	---	
4	October Week 1	Definition of improper integral and types. Comparison test for Convergence of ∫fdx from a to b.	---	
5	Week 2	Convergence of Beta function. Absolute convergence . comparison test for convergence at infinity. Convergence of gamma function.	Assignment 1	
6	Week 3	Abel's test for convergence , Dirichlet's test for convergence . integral as a function of a parameter.	Class Test 1	
7	Week 4	Diwali vacation	---	

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8	November Week 1	Metric and metric space, Distance between point and subset, bounded and unbounded metric.	--	
9	Week 2	Interior of a set , Open set , limit point.	---	
10	Week 3	Closed set, derived set, subspace of metric space.		
11	Week 4	Completeness in metric space.		
12	December Week 1	Continuity and uniform continuity in metric space.	Assignment 1	
13	Week 2	Compactness in metric space.	Class Test 2	
14	Week 3	Connectedness in metric space.		
15	Week 4	Revise	---	

Teaching Plan –

Class: Ba final

Semester – 5th   (September–December, 2022)

Name of Teacher: JITENDER KUMAR, Sub:- International Organisation-I(Odd Sem)

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	1) Meaning, Nature and Scope 2) Evolution and Growth of International Organisation		
2	Week 3	3)Origin, Membership	---	
3	Week 4	4) Structure of League Nation	---	
4	October Week 1	5) Functions, Achievements 6) Origin of United Nation 7) Objective and Principals	---	
5	Week 2	8) Member of United Nations	Assignment 1	
6	Week 3	9)The Gernal Assembly	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Member of United Nations, The Gernal Assembly 10)The Security Council	--	
9	Week 2	11) The Economic and Social Council 12)The Trusteeship Council	---	
10	Week 3	13) International Court of Justice		
11	Week 4	14)The Secretary General		
12	December Week 1	15) UNESCO 16)Specialized Agencies (IMF)	Assignment 1	

13	Week 2	17) International Labour, UNESCO	Class Test 2	
14	Week 3	18)WHO and UNICEF 19)A Comparative study		
15	Week 4	20) Assessment of United Nation	---	

पाठ-योजना

कक्षा-स्नातक, तृतीय वर्ष (पंचम सत्र)

सेमेस्टर- (सिंतबर-दिसंबर, 2022)

नाम -मीना,सहायक प्रोफेसर,हिन्दी

क्रम सं.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	टिप्पणी
1	सिंतबर सप्ताह द्वितीय	सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय' का साहित्यिक परिचय 'हमारा देश' 'नदी के द्वीप' 'कितनी नावों मे कितनी बार' 'नाच' 'यह दीप अकेला' 'सूनी सी सांझ एक 'साँप' 'उड़ चल,हारिल' संप्रसंग व्याख्या		
2	सप्ताह तृतीय	आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर अति लघूत्तरात्मक प्रश्न-उत्तर धर्मवीर भारती का साहित्यिक परिचय	---	

3	सप्ताह चतुर्थ	'रथ का टूटा पहिया'	---	
		'फागुन की शाम'		
		'फूल,मोमबत्तियाँ,सपने'		
		'बोआई का गीत'		
		'गुलाम बनाने वाले'		
		'थके हुए कलाकार से		
		'विप्रलब्धा'- संप्रसंग व्याख्या		
4	अक्टूबर सप्ताह प्रथम	आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर अति लघूत्तरात्मक प्रश्न-उत्तर नरेश मेहता का साहित्यिक परिचय	---	
5	सप्ताह द्वितीय	'मंत्र-गंध और भाषा' 'अरण्यानी से वापसी' - संप्रसंग व्याख्या आलोचनात्मक प्रश्न-उत्तर	असाइनमेंट -1	
6	सप्ताह तृतीय	लघूत्तरात्मक प्रश्न-उत्तर नागार्जुन का साहित्यिक परिचय 'उनको प्रणाम' 'सिंदुर-तिलकित भाल'	- टैस्ट- 1	
7	सप्ताह चतुर्थ	दिवाली अवकाश	---	

8	नवंबर	'बादल को घिरते देखा'	--	
	सप्ताह प्रथम	'अकाल और उसके बाद'		
		'प्रेत का बयान' - संप्रसंग		
		व्याख्या		
		आलोचनात्मक प्रश्न-उत्तर		
		लघूत्तरात्मक प्रश्न-उत्तर		
9	सप्ताह द्वितीय	रघुवीर सहाय का साहित्यिक	---	
		परिचय		
		'लोकतंत्र का संकट'		
		'चिड़ियां'		
		'भाषा का युद्ध'		
		'धूप		
		'रामदास'		
		'कोई एक और मतदाता'		
		'काला नंगा बच्चा पैदल'		
		'आत्महत्या के विरुद्ध'		
		'चिथडा-चिथडा मैं' -संप्रसंग		
		व्याख्या		

10	सप्ताह तृतीय	आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर कुंवर नारायण का साहित्यिक परिचय 'चक्रव्यूह' 'एक जले हुए मकान के सामने		
11	सप्ताह चतुर्थ	'जब आदमी आदमी नही रह पाता' - संप्रसंग व्याख्या आलोचनात्मक प्रश्न-उत्तर लघूत्तरात्मक प्रश्न-उत्तर लीलाधर जगूड़ी का साहित्यिक परिचय 'वृक्ष हत्या' 'परिवार की खाड़ी मे' - संप्रसंग व्याख्या		
12	दिसंबर सप्ताह प्रथम	'स्वतंत्र जुबान' 'ईश्वर और आदमी की बातचीत' 'जो ठोकर खाते है' 'बहुत से पत्थर पड़े है' - संप्रसंग व्याख्या आलोचनात्मक प्रश्न-उत्तर	असाइनमेंट - 2	

13	सप्ताह द्वितीय	लघूत्तरात्मक प्रश्न-उत्तर आधुनिक हिन्दी साहित्य की परिस्थितियाँ भारतेन्दुयुगीन हिंदी कविता की विशेषताएँ द्विवेदी युगीन हिंदी कविता की विशेषताएँ छायावाद का अर्थ,परिभाषा,विशेषताएँ	टैस्ट - 2	
14	सप्ताह तृतीय	प्रगतिवाद हिंदी कविता की विशेषताएँ प्रयोगवाद हिंदी कविता की विशेषताएँ नयी कविता की विशेषताएँ समकालीन कविता की विशेषताएँ पत्र लेखन ,संक्षेपण,पल्लवन		
15	सप्ताह चतुर्थ	पुनरावृति	---	

Teaching Plan – **Physical Chemistry**

Class: **B. Sc. III**

Semester – Fifth Semester (September–December, 2022)

Name of Teacher: Mrs. Yeshwanti, Assistant Professor of Chemistry

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	• Introduction to Quantum mechanics • Black body radiation • Plank's radiation law • Photoelectric effect • Postulates of quantum mechanics		
2	Week 3	• Introduction to Quantum Mechanical Operator • Commutation relations • Hamiltonian operator • Hermitian operator • Average value of square of hermitian as a positive quantity • Role of operators in quantum mechanics	Group Discussion	

3	Week 4	- To show quantum mechanically that position and momentum can not be predicted simultaneously - Origin of quantum mechanics - Schrodinger wave equation - Derivation of Schrodinger wave equation on the basis of postulates of quantum mechanics	---	
4	October Week 1	Determination of wave function and energy of a particle in one dimensional box	Group Discussion and revision of quantum mechanics	

5	Week 2	• Introduction to Physical Properties and Molecular Structure • Optical activity • Polarization -(Clausius Mossotti Equation derivation excluded) • Orientation of dipoles in an electric field • Dipole moment, induced dipole moment • Measurement of dipole moment- temperature method , refractivity method, dipole moment and structure of molecules	Assignment 1	
6	Week 3	• Applications of dipole moment in detail • Magnetic permeability, magnetic susceptibility and it's determination • Applications of magnetic susceptibility • Magnetic properties:- Paramagnetism, diamagnetism and ferromagnetism	Class Test 1 and Group Discussion	
7	Week 4	Diwali Vacation		

8	November Week 1	• Introduction to Spectroscopy • Electromagnetic radiation • Regions of spectrum • Basic features of spectroscopy • Statement of Born-Oppenheimer Approximation • Degree of freedom	--	
9	Week 2	• Introduction to Rotational Spectrum • Selection rules • Energy levels of rigid rotator • Rotational spectra of diatomic molecules	Group Discussion	
10	Week 3	• Spectral intensity distribution using population distribution (Maxwell -Boltzmann distribution) • Determination of bond length and isotopic effect		

11	Week 4	• Introduction to Vibrational Spectrum • Selection rules • Energy levels of simple harmonic oscillator • Pure vibrational spectrum of diatomic molecules • Determination of force constant and qualitative relation of force constant and bond energy		
12	December Week 1	• Idea of vibrational frequency of different functional groups • Introduction to Raman Spectrum • Concept of polarizibility • Pure rotational and pure vibrational Raman spectra of diatomic molecules	Assignment 2	
13	Week 2	• Selection rules • Quantum theory of Raman spectra pectra • Revision of Raman spectra	Class Test 2	
14	Week 3	• Group discussion and revision of spectroscopy		

15	Week 4	Revision of complete syllabus	Group Discussion	

Teaching Plan – 20UCHE102 States of Matter and Aliphatic Hydrocarbons

20UCHE101 Atomic structure and Bonding and General Organic Chemistry -1

Class: B.Sc. I

Semester – First Semester   (September–December, 2022)

Name of Teacher: Mrs. Yeshwanti, Assistant Professor of Chemistry

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	- Introduction to Kinetic Theory of Gases - Postulates of kinetic theory of gases and derivation of the kinetic gas equation - Derivation of real gases from ideal behaviour - Compressibility factor, Causes of deviation - Vander Waals equation of state for real gases - Boyle temperature - Critical Phenomena, Critical constants and their calculation from Van der Waals equation - Andrews isotherms of Carbon dioxide.		

| 2 | Week 3 | • Maxwell Boltzmann distribution laws of molecular velocities and molecular energies and their importance

• Temperature dependence of these distributions

• Most probable, average and root mean square velocities

• Collision cross section, Collision number, Collision frequency, Collision diameter and mean free path of molecules

• Viscosity of gases and effect of temperature and pressure on coefficient of viscosity (qualitative treatment only) | Group Discussion | |

3	Week 4	• Introduction to liquids and solids • Surface tension and it's determination using stalagmometer • Viscosity of a liquid and determination of coefficient of viscosity using Ostwald's viscometer • Effect of temperature on surface tension and coefficient of viscosity of a liquid	Group Discussion	
4	October Week 1	• Forms of solids • Symmetry elements • Unit cells, Crystal systems • Bravais lattice types and identification of lattice planes • Law of Crystallography Law of constancy of interfacial angles, law of rational indices, Miller indices		

5	Week 2	- X-Ray diffraction by crystals, Bragg's law - Structure of NaCl, KCl and CsCl - Defects in crystals - Glasses and liquid crystals	Assignment 1	

| 6 | Week 3 | Introduction to Alkanes (Up to 5 carbons) Preparation: Catalytic hydrogenation Wurtz reaction Kolbe's synthesis from Grignard reagent Reactions: Free radical Substitution: Halogenation Introduction to cycloalkanes Nomenclature Synthesis of cycloalkanes and their derivatives- photochemical (2+2) cycloaddition reactions Dehalogenation of dihalides Pyrolysis of calcium or bariumsalts of dicarboxylic acids Baeyer's strain theory and it's limitations Theory of strainless rings | Class Test 1 | |
| 7 | Week 4 | Diwali vacation | --- | |

| 8 | November Week 1 | Introduction to Atomic Structure Review of Bohr's theory and it's limitations Dual behaviour of matter and radiation Debroglie's relation Heisenberg Uncertainty Principle Hydrogen atom spectra Introduction to Quantum mechanics Time independent Schrodinger equation and meaning of various terms in it Significance of ψ and $\psi 2$ Schrodinger equation for hydrogen atom | Group Discussion | |

9	Week 2	● Radial and angular parts of the hydogenic wave functions(atomic orbitals) and their variation for 1s, 2s, 2p, 3s, 3p and 3d orbitals(only graphic representation)	Group Discussion	
		● Radial and angular nodes and their significance		
		● Radial distribution functions and the concept of the most probable distance with special reference to 1s and 2s atomi orbitals		
		● Significance of quantum numbers		
		● Orbital angular momentum and quantum numbers ml and ms		
		● Shape of s, p and d atomic orbitals, nodal planes		
		● Discovery of spin, spin quantum numbers (s) and magnetic spin quantum numbers (ms)		
		●		

| 10 | Week 3 | Introduction to Chemical bonding Review of ionic boding: General characteristics and energy consideration in ionic bonding Lattice energy and solvation energy and their importance in the context of stability and solubility of ionic compounds Statement of Born-Lande equation for calculation of lattice energy Born-Haber cycle and it's applications Polarizing power and polarizibility Fajan's rules, ionic character in covalent compounds Bond moment, dipole moment and percentage ionic character | | |

| 11 | Week 4 | • Introduction to Covalent bonding: VB Approach: shape of some inorganic molecules and ions on the basis of VSEPR and hybridization with suitable examples of linear, trigonal planar, square planar, tetrahedral, trigonal bipyramidal and octahedral arrangements | Group Discussion | |
| 12 | December Week 1 | • Introduction to MO Approach: Rules for the LCAO method

 • Bonding and antibonding MOs and their characteristics for s-s, s-p and p-p combination of atomic orbitals, non bonding combination of orbitals | Assignment 2 | |

13	Week 2	● MO treatment of homonuclear diatomic molecules of 1st and 2nd periods (including idea of s-p mixing) and heteronuclear diatomic molecules such as CO, NO, and NO+ ● Comparison of VB and MO approaches	Class Test 2	
14	Week 3	● Revision and group discussion of States of Matter and Aliphatic Hydrocarbons		
15	Week 4	● Revision and group discussion of Atomic Structure and Bonding and General Organic Chemistry-1		

Teaching Plan – **Auditing**

Class: Bcom3rd year

Semester – 5 (July – November 2023)

Name of Teacher: Manisha

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Auditing: Concept, Objectives,		
2	Week 4	Importance and Types of Auditing.	---	
3	August Week 1	Audit Process: Internal Control, Internal Check	---	
4	Week 2	Internal Audit, Audit Programme.	---	
5	Week 3	Audit Procedure- Routine Checking,		
6	Week 4	Vouching, Verification		
7	Week 5	Valuation of Assets & Liabilities.	---	
8	September Week 1	Audit of Public Company: Qualification of a Company Auditor,		
9	Week 2	Appointment of company Auditors, Powers,.	Assignment 1	
10	Week 3	Duties and liabilities of Auditors,	Class Test 1	
11	Week 4	Audit of Depreciation and Reserves,		
12	October Week 1	Divisible profits & dividends.		
13	Week 2	Audit Report and Investigation		

14	Week 3	Audit Report: Introduction and Basics of Audit Report,	Assignment 2	
15	Week 4	Objectives of Audit Report, Contents,	Class Test 2	
16	November Week 1	Types of Audit Report.		
17	Week 2	Investigation: Meaning, Concept,		
18	Week 3	Diwali Vacation		
19	Week 4	Features and Significance of Investigation.		

Teaching Plan – Urban Geography and Lab Work Practical

Class: M.Sc Geography

Semester – 3rd Sem. (September–December, 2022)

Name of Teacher: Dr Anil kumar

Sr. No.	Month	Topics to be covered	Academic Activity	Practical of lab work on Aerial Photographs and Satellite images
1	September Week 2	Dafinition of urban geography , Urbanization and urbanism; meaning and importance,Nature and scope of urban geography		Understanding Remote Sensing Data
2	Week 3	Origin and growth of urban geography, Different stages of urban system, Theory of Conurbation and Megalopolis	---	Import/Export of Satellite Data
3	Week 4	Urban Theory of Lewis Mumford and Griffith Taylor, Urban Population and its Characteristics, Ancient Urban System in Indian Civilization	---	Digital Interpretation Of Earth Surface Features in standard FCC
4	October Week 1	Medieval and Modern Urban System in India, Trend of Urbanization in India and World	---	Geo- referencing
5	Week 2	Definition and meaning of city and region,Spatial Linkages and interaction between Rural and Urban Areas, Rural Urban fringe	Assignment 1	Geo- Coding

6	Week 3	Meaning and Spatial Network Framework of Suburbanization, Central Place Theory of Christaller, losch and Walter Isard	Class Test 1	Unsupervised Classfication
7	Week 4	Diwali vacation	---	
8	November Week 1	Size and Spacing of Cities,Theory of Rank Size Rule, Thery of Primate City Function of Cities of , Classification, Concepts and Scheme of Classification	--	Supervised Classfication
9	Week 2	Meaning, Definition of Urban Morphology, Land use Pattern in Urban Areas, Model of City structure, Concentric zone Model by E.W.Burgess	---	Radiometric Corrections
10	Week 3	Theory of Sector Model By Homer Hoyet, Multiple Nuclei Model by Harrish and Ullman, Contemporary Urban Morphology in Globalization		Atmospheric Corrections
11	Week 4	Features og Global City, Pattern and Trends of Urbanization in India, Problem of Urban slums in India		Study of Various Contrast Enhancement Techniques
12	December Week 1	Environmental Issues, Problem of Overcrowding Transportation and Mobility	Assignment 2	Spatial Enhancement
13	Week 2	Meaning and Features of Urban Inequility, Urban Poverty, Slums and Squatter Housing in India	Class Test 2	Assignment and Practice of lab work

14	Week 3	Access of Housing Amenities, Urban Basic Services, Quality of Urban Life, Urban Planning in India		Class Test of Urban planning in India
15	Week 4	National Urban Policy, Case stady of Master Plan of Delhi and Chandigarh. Study of Smart and Sustainable Cities	---	Seminar on Sustainable smart cities

Teaching Plan – Geography and Disaster Management

Class: **M. Sc. Geography (3rd Semester)**

Semester – 3rd   (September–December, 2022)

Name of Teacher: Dr. Mukesh Kumar

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Regional physiography, geology, soils, drainage, climate, land use and land cover of India		
2	Week 3	Natural hazards risk prone areas of India	---	
3	Week 4	Hazard risk, vulnerability and disaster: concepts and relationships	---	
4	October Week 1	Measuring hazard risks, vulnerability and disasters	---	
5	Week 2	Regional extreme events in India: earthquakes, floods, drought	Assignment 1	
6	Week 3	Regional extreme events in India: cyclone, tsunami, landslides, avalanches	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Regional extreme events in India: snow, rain, and wind storms	--	
9	Week 2	Disaster magnitude and impacts: case study/ examples from recent disasters	---	
10	Week 3	Earthquake disaster vulnerability assessment (case study of metropolitan and other major cities)		

11	Week 4	Flood disaster zonation and vulnerability assessment, Landslides and avalanches disaster zonation and mapping		
12	December Week 1	Drought disasters zonation and mapping. Multi hazard risk assessment.	Assignment 1	
13	Week 2	Understanding manmade disasters, fires and forest fires; nuclear, biological and chemical disaster, road accident and building collapses.	Class Test 2	
14	Week 3	Regional capacity, preparedness and response; governance and institutions for disaster management		
15	Week 4	Awareness among people, capacity building, state disaster management plan	---	

Teaching Plan –English Core Course 1C

Class: B.A. Semester –III (Sep- Dec 2022)

Name of Teacher: Dr. Gunpal Singh

Sr. No.	Month	Topics to be covered	Academic Activity	
1	September Week 2	Introduction to syllabus and examination pattern Important poetic forms: Elegy, Lyric		
2	Week 3	1. All the World Stage - Text & Exercise	---	
3	Week 4	2. The Model Millionaire - Text & Exercise	---	
4	October Week 1	3. A Cup of Tea – Text & Exercise	---	
5	Week 2	Important poetic devices: Hyperbole, Irony 4. Mending Wall	---	
6	Week 3	Mending Wall – Text & Exercise		
7	Week 4	Diwali Vacation	---	

8	November Week 1	Grammar Vocabulary: Antonyms and Synonyms	---	
9	Week 2	Important poetic forms: Sonnet, Elegy, Ode,	---	
10	Week 3	Vacations 22-30 Oct 2022	-	
11	Week 4	Important poetic forms: Dramatic Monologue & Free verse	---	
12	December Week 1	Important poetic devices: Alliteration, Simile, Metaphor, Personification etc.	Class Test 1	Textual questions Lesson 1-3
13	Week 2	5. The Mother – Text & Exercise		
14	Week 3	6. Refugee Mother & Child – Text & Exercise		
15	Week 4	Grammar Editing of passages, Filling of the blanks La Bella Dame Sans Merci Phrases and sentences	Submission of Assignment/Project	

Teaching Plan –

Class: B.A. I - History

Semester – (September–December, 2022)

Name of Teacher: Anita

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Reconstructing and Interpreting Ancient India		
2	Week 3	Pre-Historic Age	---	
3	Week 4	Harappa Culture	---	
4	October Week 1	The Vedic Age	---	
5	Week 2	Territorial State and Rise of Magdha	Assignment 1	
6	Week 3	Achamedian and Maledonian Invasions and their Impacts	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Jainism and Buddhism	--	
9	Week 2	Mauryan Empire	---	
10	Week 3	Mauryan Empire		
11	Week 4	Shunga Dynasty		
12	December Week 1	Post Mauryan Period: Kushanas and Satvahnas	Assignment 1	
13	Week 2	Sangam Age	Class Test 2	
14	Week 3	Shakas and Parthiens		
15	Week 4	Revision	---	

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Teaching Plan –

Class: R. A. II History

Semester – (September–December, 2022)

Name of Teacher: Anita

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Foundation and consolidation of Delhi Sultanate		
2	Week 3	Iqta and Nobility System	---	
3	Week 4	Military and Administration under Khiji's and Tughlaks	---	
4	October Week 1	Economic Reforms under Khiljis and Tughlaks	---	
5	Week 2	Bhakti and Sufi Movements	Assignment 1	
6	Week 3	Provincial Kingdoms	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Vijaynagar	--	
9	Week 2	Second Afghan Empire	---	
10	Week 3	Emergence and Consolidation of Mughal State		
11	Week 4	Emergence and consolidation Mughal State		
12	December Week 1	Resistance of Local Powers : Delhi Sultanate	Assignment 1	
13	Week 2	Resistance of Local Powers: Mughal Empire	Class Test 2	
14	Week 3	Administerative structure: Mughal Empire		
15	Week 4	Revision	---	

Teaching Plan –

Class: B.A III History

Semester – (September–December, 2022)

Name of Teacher: Anita

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Palaeolithic and Mesolithic Cultures		
2	Week 3	Neolithic Age	---	
3	Week 4	Sumerian Civilisation	---	
4	October Week 1	Harappa Civilisation	---	
5	Week 2	Greek Civilisation	Assignment 1	
6	Week 3	Roman Civilisation	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Indian Civilisation: P. G. W. Culture	--	
9	Week 2	Feudalism in Medieval Europe	---	
10	Week 3	Role of Church in Medieval Europe		
11	Week 4	Pre-Islamic Arabia		
12	December Week 1	Rise of Islam	Assignment 1	
13	Week 2	Umayyad and Abbasid Dynasties	Class Test 2	
14	Week 3	Evolution of state and society under Islam		
15	Week 4	Renaissance	---	

Teaching Plan –

Class: B. A. I History

Semester – (Februrary–May 2023)

Name of Teacher: Anita.

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	The Rise and Growth of the Gupta Empire		
2	Week 2	The Rise and Growth of the Gupta Empire	---	
3	Week 3	Hersha and his Times	---	
4	Week 4	South India : Politics, Society	---	
5	March Week 1	South India : Economy and Culture		
6	Week 2	Holi Vacation		
7	Week 3	Kingdom of the South : Choles	---	
8	Week 4	Kingdom of the South : Choles	Assignment 1	
9	Week 5	Towards the early Medieval	Class Test 1	
10	April Week 1	Chalukaya, Pallava and Vardhara Dynasty		
11	Week 2	Chalukaya, Pallava and Vardhara Dynasty		
12	Week 3	Evolution of Political structure of Rashtrakutas		
13	Week 4	Palas and Pratiharas	Assignment 2	
14	May Week 1	Emergece of Rajput states in North India	Class Test 2	
15	Week 2	The Arabs	---	
16	Week 3	struggle for power in Northern India		
17	Week 4	Foundation of the Turq-Afghan's Power		
18	Week 5	Revision		

Teaching Plan –

Class: B. A. II History

Semester – (Februrary–May 2023)

Name of Teacher: Anita

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Interpreting the 18th Century		
2	Week 2	Emergence of Independent States	---	
3	Week 3	Establishment and Expansion of colonial Power	---	
4	Week 4	Consolidation of colonial Power upto 1857	---	
5	March Week 1	Regional Resistance upto 1857		
6	Week 2	Holi Vacation		
7	Week 3	Revolution of 1857 A.D.	---	
8	Week 4	Colonial States and Administrative structure after 1858	Assignment 1	
9	Week 5	Colonial Economy : Agriculture, Trade and Industry	Class Test 1	
10	April Week 1	Socio - Religious Reform Movements in 19th Century and After		
11	Week 2	Origin and Growth of Nationalist Consciousness		
12	Week 3	Formation of Indian National Congress and Moderates		
13	Week 4	Ideology and Programmes of the Extremists	Assignment 2	
14	May Week 1	Revolutionaries	Class Test 2	
15	Week 2	Mahatma Gandhi and Mass Nationalism	---	
16	Week 3	Growth of Communal Politics and Partition of India		
17	Week 4	Advent of freedom		
18	Week 5	Constituent Assembly and Establishment of Republic		

Teaching Plan –

Class: B. A III History

Semester – (Februrary–May 2023)

Name of Teacher: Anita.

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Mercantilism		
2	Week 2	Agricultural and Industrial Revolution	---	
3	Week 3	Capitalism	---	
4	Week 4	Imperialism	---	
5	March Week 1	French Revolution		
6	Week 2	Holi Vacation		
7	Week 3	Liberalism in Britain	---	
8	Week 4	Nationalism in Italy and Germany	Assignment 1	
9	Week 5	Russian Revolution	Class Test 1	
10	April Week 1	Rise of Dictatorship : Fascism and Nazism		
11	Week 2	Stages of Colonialism in India		
12	Week 3	China and the West		
13	Week 4	Japan and the West	Assignment 2	
14	May Week 1	First World War	Class Test 2	
15	Week 2	World War II	---	
16	Week 3	Non- Alignment Movement		
17	Week 4	Revision		
18	Week 5	Revision		

Teaching Plan – Numerical Methods with. Programming in C

Class: B.Sc IInd Year

Semester – IV **(September–December, 2022)**

Name of Teacher: Dr. Ritu.

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Algorithms, Flow charts, data types, Operators and expression		
2	Week 3	Input/Outputs Function, Decision Statements	---	
3	Week 4	Switch stmt, Case Control Structures. Functions. Arrays.		
4	October Week 1	Strings, Arithmetic operators on characters.	---	
5	Week 2	Use of Structures in Arrays.	Assignment 1	
6	Week 3	Arrays in Structures.	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Bisection, Regula-Falsi, Secant, Newton Raphsonis	--	
9	Week 2	Order of convergence of above methods.	---	
10	Week 3	Gauss-Elimination Method, Gauss-Jordan method,		
11	Week 4	Iterative Method, Jacobi's Method		
12	December Week 1	Gauss-Seidall Method, Relaxation Method.	Assignment 1	
13	Week 2	Convergence of of Gauss-Seidal Method	Class Test 2	
14	Week 3	Revision.		
15	Week 4	Revision.	---	

Lesson Plan – 2022-2023 (odd Semester)
Chemistry practical

Class: B.Sc.II				Semester –III

Session:2022-2023 (September–December, 2022)   Name of
Teacher: Mrs.Yeshwanti

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 1 & 2	• Introduction to practical syllabus, marking pattern • About precautions to be taken in lab, common equipments to be used, name of various glasswares, organization of chemicals in laboratory and common instructions for practicals		
2	Week-3	• Determination of Mg^{2+} ions by complexometric titrations with EDTA. • File preparation		
3	Week 4 & 5	• Determination of Zn^{2+} ions by complexometric titrations with EDTA. • File preparation		
4	October Week 1	• Quantitative estimation of Cu^{2+} ions as copper thiocyanate gravimetrically. • File preparation		
5	Week 2	• Quantitative estimation of Ni^{2+} ions as nickel dimethylglyoxime gravimetrically. • File preparation		
6	Week 3	• File checking • Preparation of viva-voce from inorganic section		
7	Week 4	• Diwali Vacation		
8	November Week 1	• Determination of specific reaction rate of hydrolysis of ethyl acetate catalyzed by hydrogen ions at room temperature. • File preparation	Viva -voce mock test 1	

9	Week 2	● Preparation of arsenious sulphide sol and compare the precipitation power of mono-, di- and tri-valent anions. ● File preparation ● File checking ● Preparation of viva-voce from physical chemistry practical section		
10	Week 3	● Preparation of m-dinitrobenzene from nitrobenzene, purification and determination of melting point. ● Preparation of dibenzalacetone from acetone and benzaldehyde, purification and determination of melting point. ● File preparation		
11	Week 4 & 5	● Preparation of aspirin from salicylic acid, purification and determination of melting point. ● File preparation		
12	December Week 1 & 2	● Preparation of solid derivative of Napthalene, anthracene, acenapthalene, benzyl chloride and p-dichlorobenzene, m-dinitrobenzene, p-nitrotoluene, resorcinol, hydroquinone, alpha-naphthol, beta-naphthol. ● File preparation		
13	Week 3	● Preparation of solid derivative of benzoquinone, ethyl methyl ketone, benzaldehyde, vanillin, oxalic acid, succinic acid, benzoic acid, salicylic acid, aspirin, pthalic acid, cinnamic acid, benzamide ● File preparation	Viva -voce mock test 2	
14	Week 4	● Preparation of solid derivative of urea, acetanilide, benzanilide, aniline hydrochloride, p-toluidine, phenyl salicylate, glucose, fructose, sucrose, o-, m-, p-nitoanilines, thiourea ● File preparation ● File checking ● Preparation of viva-voce from organic section		
15	Week 5	● Students doubts		

Lesson Plan – 2022-2023 (odd Semester)
Chemistry practical

		Lesson Plan – 2022-2023 (Even Semester) **Chemistry practical**		

Class: B.Sc.I				Semester - II
Session:2022-2023 (February - May 2023)				
Name of Teacher: Mrs. Yeshwanti				
Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	**February** Week-1	● Introduction to practical syllabus, marking pattern ● About precautions to be taken in lab, common equipments to be used, name of various glasswares, organization of chemicals in laboratory and common instructions for practicals		
2	Week-2	● To prepare a sample of pure iodoform from ethanol (acetone). ● File Preparation		
3	Week 3	● To prepare a sample of pure p-bromoacetanilide from acetanilide. ● File Preparation		
4	Week 4 & 5	● To prepare a pure sample of cuprous chloride. ● File Preparation		
5	**March** Week 1	● To prepare a sample of potash alum. ● File Preparation		
6	Week 2	● Holi Vacation		
7	Week 3	● File checking ● Preparation of viva-voce from organic section		
8	Week 4	● To prepare a pure sample of chrome-alum. ● File Preparation		
9	Week 5	● To prepare a pure sample of prussian blue from iron filling. ● File Preparation	Viva-voce mock test 1	
10	**April** Week 1	● File checking ● Preparation of viva-voce from inorganic section		

11	Week 2	• To determine the enthalpy of neutralization of hydrochloric acid with sodium hydroxide • File preparation		
12	Week 3	• To determine the enthalpy of neutralization of neutralization of acetic acid and sodium hydroxide and find out enthalpy of ionization of acetic acid • File Preparation		
13	Week 4	• To determine the solubility of benzoic acid at different temperatures and calculate ΔH of dissolution. • File Preparation		
14	May Week 1	• File checking • Preparation of viva-voce from physical chemistry	Viva-voce mock test 2	
	Week 2	• To determine the enthalpy of neutralization of ammonium hydroxide and hydrochloric acid and determine enthalpy of ionization of ammonium hydroxide. • File Preparation		
	Week 3	• File checking • Preparation of viva-voce from all sections.		
	Week 4	• Revision		
	Week 5	• Students doubts		

		Lesson Plan – 2022-2023 (Even Semester) **Chemistry practical**		

Class: B.Sc.III   **Semester –VI**
Session:2022-2023 (February - May 2023)
Name of Teacher: Mrs. Yeshwanti

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	**February** Week-1	● Introduction to practical syllabus, marking pattern ● About precautions to be taken in lab, common equipments to be used, name of various glasswares, organization of chemicals in laboratory and common instructions for practicals		
2	Week-2	● To prepare o-chlorobenzoic acid from anthranilic acid. ● File Preparation		
3	Week 3	● To prepare p-bromoaniline from p-bromoacetanilide. ● File Preparation		
4	Week 4 & 5	● To prepare m-nitroaniline from m-dinitrobenzene. ● File Preparation		
5	**March** Week 1	● To prepare S-Benzyl-iso-thiouronium chloride from thiourea ● File Preparation		
6	Week 2	● Holi Vacation		
7	Week 3	● File checking ● Preparation of viva-voce from organic section		
8	Week 4	● To determine the strength of the given mono basic acid solution conductometrically ● File Preparation		
9	Week 5	● To determine the strength of the given di basic acid solution conductometrically. ● File Preparation	Viva-voce mock test 1	
10	**April** Week 1	● To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically. ● File Preparation		

11	Week 2	• File checking • Preparation of viva-voce from conductometry experiments		
12	Week 3	• To determine the strength of given acid solution (mono and dibasic acid) potentiometrically. • File Preparation		
13	Week 4	• To determine the molecular weight of a non-volatile solute by Rast method. • File Preparation	Assignment 2	
14	May Week 1	• To standardize the given mono basic acid solution pH metrically	Viva-voce mock test 2	
	Week 2	• To standardize the given di basic acid solution pH metrically • File Preparation		
	Week 3	• File checking • Preparation of viva-voce from rast method, potentiometric and pH metric titrations		
	Week 4	• Revision		
	Week 5	• Students doubts		

Lesson Plan – 2022-2023 (Even Semester)
Chemistry practical

Class: B.Sc.II   **Semester –IV**
Session:2022-2023 (February - May 2023)
Name of Teacher: Mrs. Yeshwanti

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	**February** Week-1	• Introduction to practical syllabus, marking pattern • About precautions to be taken in lab, common equipments to be used, name of various glasswares, organization of chemicals in laboratory and common instructions for practicals		
2	Week-2	• To determine colorimetrically the concentration of potassium permanganate solution and verify Beer- Lambert's Law. • File Preparation		
3	Week 3	• To determine colorimetrically the concentration of potassium dichromate solution and verify Beer- Lambert's Law. • File Preparation		
4	Week 4 & 5	• To identify Pb(II), Cu(II) and Cd(II) ions by means of paper chromatography. • File Preparationand checking		
5	**March** Week 1	• To identify the ions Co(II) and Ni(II) by means of paper chromatography. • File Preparation		
6	Week 2	• Holi Vacation		
7	Week 3	• To identify chloride anions, bromide anions and iodide anions by paper chromatography. • File preparation		
8	Week 4	• File checking • Preparation of viva- voce from organic section		
9	Week 5	• To determine specific refractivity of the given compound using Abbe's refractometer. • File Preparation	Viva-voce mock test 1	

Lesson Plan – 2022-2023 (Even Semester)
Chemistry practical

10	**April** Week 1	● To determine the critical solution temperature of given phenol- water system. ● File Preparation		
11	Week 2	● File checking ● Preparation of viva-voce from refractometry and phase equilibrium.		
12	Week 3	● To obtain pure sample of naphthalene from its suspension in water by distillation. ● File Preparation		
13	Week 4	● To separate a mixture of o-and p-nitrophenols by steam distillation. ● File Preparation		
14	May Week 1	● File checking ● Preparation of viva- voce from distillation.	Viva-voce mock test 2	
	Week 2	● To determine experimentally the partition coefficient of iodine in carbon tetrachloride and water. ● File Preparation		
	Week 3	● File checking ● Preparation of viva-voce from distribution law.		
	Week 4	● Revision		
	Week 5	● Students doubts		

(2022-23)

Lesson Plan of Mathematics

B.A III / B.SC III (6th sem) (Real and Complex Analysis)

(Dr. Garima Kumar)

March (4th week)	Jacobians
April (1st week)	Beta and Gamma functions.
2nd week	Double and Triply Integrals. Dirichlet's integrals, Change of order of integration in double integrals.
3rd week	Fourier Series, Properties of fourier coefficients, Dirichlet's conditions, Parseval's identity for fourier series.
4th week	Fourier series for even and odd functions, Half range series, Change of intervals.
May 1st week	Extended complex plane, Stereographic projection of complex numbers.
2nd week	Continuity and differentiability of complex functions, Analytic functions, Cauchy-Riemann equations, Harmonic functions.
3rd week	Mappings by elementary functions, Mobius transformation, fixed points, cross ratios, Inverse points and critical mappings.

(2022-2023)

Lesson Plan of Mathematics (Dr. Gaurav Kohli)

B.SCI/B.A I (2nd sem) (Vector Calculus)

March (last week)	Gradient of a scalar point function, directional derivatives, geometrical interpretation of grad ϕ.
April (I week)	character of gradient as a point function. Divergence and curl of vector point function and their geometrical significance. character of Div $\vec{F}$ and curl $\vec{F}$ as point function, examples.
2nd week	Gradient, divergence and curl of sums and product and their related vector identities. Laplacian operator.
3rd week	Orthogonal curvilinear coordinates. Conditions for orthogonality fundamental triad of mutually orthogonal unit vectors. Grad, Div, curl & Laplacian operator in terms of orthogonal
4th week	Cylindrical co-ordinates and spherical co-ordinates
May (1st week)	Vector Integration; Line integral, Surface integral, volume integral.
2nd week	Problems based on theorem of Gauss, Green & Stokes
3rd week	General equation of second degree. Tracing of conics
4th week	Tangent at any point to the conic, chord of contact, pole of line to the conic, director circle of conic.

Lesson Plan of Mathematics

B. Com I (2nd Sem) (Business Mathematics)

Week	Topic
4th week March	Matrices : Definition of a Matrix; Types of matrices, Algebra of matrices.
April (1st) week	Determinants: Calculation of values of Determinants up to third order. adjoint of a matrix.
2nd week	Elementary row and column operation; finding inverse matrix through adjoint and elementary row or column operations; Solution of a system of linear equations having unique Solution and involving not more then three variables.
3rd week	Compound Interest — certain different types of interest rate, concept of present value and amount of a Sum.
4th week	Annuities: Types of annuities; Present value and amount of an annuity, including the case of continuous compounding.
May 1st week	Differentiation — concept of Differentiation. Rules of differentiation — Simple Standard forms. Aplications of differentiation — elasticity of demand and supply.
2nd week	Maxima & minima of functions relating to Cost, revenue and profit
3rd week	Permutation & Combinations: Definition, types — A.P.; G.P.
4th week	formulas, Difference between Sequence & Series

Teaching Plan – Calculus (2023-24)

Class: B.A/B.Sc. I

Semester – (July – November 2023)

Name of Teacher: Dr. Garima Kumari

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Successive Differentiation		
2	Week 4	Successive Differentiation	---	
3	August Week 1	Some General Theorems on Differentiable functions and Expansions	---	
4	Week 2	Exercise & examples	---	
5	Week 3	Asymptotes		
6	Week 4	Asymptotes		
7	Week 5	Curvature	---	
8	September Week 1	Exercise & examples		
9	Week 2	Singular Points	Assignment 1	
10	Week 3	Singular Points	Class Test 1	
11	Week 4	Reduction Formulas		
12	October Week 1	Reduction Formulas		
13	Week 2	Rectification		
14	Week 3	Rectification	Assignment 2	
15	Week 4	Quadrature	Class Test 2	
16	November Week 1	Quadrature		
17	Week 2	Volumes and surfaces of solids of revolution		
18	Week 3	Diwali Vacation		
19	Week 4	Multiple Integrals		
20	December Week 1	Short Answer Type Questions		

Teaching Plan – Programming in C & Numerical Methods (2023-24)

Class: B.A/B.SC. II

Semester – (July – November 2023)

Name of Teacher: Dr. Garima Kumari

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Computers: A General Introduction Introduction to C		
2	Week 4	Data - Types	---	
3	August Week 1	Operators and Expressions, Decision Control structures	---	
4	Week 2	Loops	---	
5	Week 3	functions		
6	Week 4	The C Preprocessor		
7	Week 5	Arrays	---	
8	September Week 1	Puppetry of Strings structures and unions		
9	Week 2	Pointers	Assignment 1	
10	Week 3	files in C	Class Test 1	
11	Week 4	files in C		
12	October Week 1	Solution of Algebraic and Transcendental Equation		
13	Week 2	Bisection Method		
14	Week 3	Theorems	Assignment 2	
15	Week 4	Simultaneous Linear Algebraic Equation	Class Test 2	
16	November Week 1	Methods		
17	Week 2	Short Answer Type Question		
18	Week 3	Diwali Vacation		
19	Week 4	Revision		
20	December Week 1	Revision.		

Teaching Plan – Real & complex Analysis

Class: B.A/B.SC. III

Semester – (Februrary–May 2023) (2022-23)

Name of Teacher: Dr. GARIMA KUMARI

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Jacobians		
2	Week 2	Beta and Gamma function		
3	Week 3	Examples & Exercise	---	
4	Week 4	Double and Triple integer.		
5	March Week 1	Drichlet's integrals, Change of order of integration in double integrals		
6	Week 2	Holi Vacation		
7	Week 3	Fourier Series,	---	
8	Week 4	Properties of fourier coethen	Assignment 1	
9	Week 5	Dirichlet's condition,	Class Test 1	
10	April Week 1	Parseval's identity for fourier series		
11	Week 2	Fourier series for even & odd functions, Half Ray Series		
12	Week 3	Change of intervals		
13	Week 4	Extended complex Plane	Assignment 2	
14	May Week 1	Sterographic projection of complex numbers	Class Test 2	
15	Week 2	Continuity and differenability		
16	Week 3	of complex functions, Analytic functn		
17	Week 4	Mobius Transformation.		
18	Week 5	Fixed points, Cross Ratio. Multi points & Critical mapping.		

Teaching Plan – (2022-23) Calculus

Class: B.A/B.Sc. I

Semester – (September–December, 2022)

Name of Teacher: Dr. GAMMA KUMAR

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Successive Differentiation. Some General theorem on Diff. Equation and Expansion		
2	Week 3	Asymptotes	---	
3	Week 4	Example & Exercise	---	
4	October Week 1	Curvature.	---	
5	Week 2	Curvature	Assignment 1	
6	Week 3	Singular Points.	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Reduction formula.	--	
9	Week 2	Rectification.	---	
10	Week 3	Quadrature.		
11	Week 4	Quadrature.		
12	December Week 1	Volumes and surfaces of Solids of Revolution	Assignment 1	
13	Week 2	Multiple Integral.	Class Test 2	
14	Week 3	Short Answer Type Question.		
15	Week 4	Short Answer Type Question	---	

Teaching Plan – Vector Calculus (2022-23)

Class: B.A/B.Sc. I

Semester – (Februrary–May 2023)

Name of Teacher: Dr. Garima Kumari

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Gradient of a scalar point function, Directional derivative,		
2	Week 2	geometrical interpretation of grad ∮	---	
3	Week 3	Character of gradient	---	
4	Week 4	as a point function.	---	
5	March Week 1	Divergence and curl of vector point function.		
6	Week 2	Holi Vacation		
7	Week 3	Character of Div ∮ and curl ∮		
8	Week 4	Examples.	Assignment 1	
9	Week 5	Gradient, divergence and curl of sums and product	Class Test 1	
10	April Week 1	Laplacian operator.		
11	Week 2	Orthogonal curvilinear co-ordinate.		
12	Week 3	Grad, Div, curl & Laplacian		
13	Week 4	Cylindrical co-ordinate and spherical co-ordinate	Assignment 2	
14	May Week 1	Vector Integration, Line Integral, Surface Integral, volume Integral.	Class Test 2	
15	Week 2	Problems based on Theorem of Green		
16	Week 3	Gauss & Stokes.		
17	Week 4	Tracing of conics		
18	Week 5	Tangent at any point to the conic, chord of contact, pole of line to the conic, director circle of conic.		

Teaching Plan – Real Analysis

Class: B.A/B.Sc. III

Semester – (September–December, 2022)

Name of Teacher: Dr. Garima Kulant

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Riemann Integral		
2	Week 3	Improper Integrals and their convergence	---	
3	Week 4	Integral as a function of a parameter	---	
4	October Week 1	Metric spaces	---	
5	Week 2	Open and closed sets in metric spaces	Assignment 1	
6	Week 3	Completeness in metric space	Class Test 1	
7	Week 4	Diwali vacation	---	
8	November Week 1	Exercise & example	--	
9	Week 2	Continuity & uniformly continuity in metric space	---	
10	Week 3	Exercise & example		
11	Week 4	Compactness in metric spaces		
12	December Week 1		Assignment 1	
13	Week 2	Connectedness in metric spaces	Class Test 2	
14	Week 3	Short Answer type question		
15	Week 4	Revision.	---	