Lesson Plan 2023-24
Government College, Hansi
Unit wise Lesson Plan for ODD Semester Aug.-Dec.-2023

Department: Chemistry

Name of Teacher : Dr. Sudesh

Class : **B.Sc 1st Semester** Subject: **Inorganic Chemistry** Paper : **Theory**

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	Review of: Bohr's theory and its limitations, dual behaviour of matter and radiation, de Broglie's relation, Heisenberg Uncertainty principle. Hydrogen atom spectra. Need of a new approach to Atomic structure. What is Quantum mechanics? Time independent Schrodinger equation and meaning of various terms in it. Significance of ψ and ψ^2, Schrödinger equation for hydrogen atom. Radial and angular parts of the hydogenic wavefunctions (atomic orbitals) and their variations for 1*s*, 2*s*, 2*p*, 3*s*, 3*p* and 3*d* orbitals (Only graphical representation).	1st week of August to 4th week of August	Verbly test
Unit 2	Radial and angular nodes and their significance. Radial distribution functions and the concept of the most probable distance with special reference to 1*s* and 2*s* atomic orbitals. Significance of quantum numbers, orbital angular momentum and quantum numbers m_l and m_s. Shapes of *s*, *p* and *d* atomic orbitals, nodal planes. Discovery of spin, spin quantum number (*s*) and magnetic spin quantum number (m_s). Rules for filling electrons in various orbitals, Electronic configurations of the atoms. Stability of half-filled and completely filled orbitals, concept of exchange energy. Relative energies of	Ist week of September to 4th week of September	Ist Assignment in 2nd week of September

	atomic orbitals, Anomalous electronic configurations.		
Unit 3	*Ionic Bonding:* General characteristics of ionic bonding. Energy considerations in ionic bonding, lattice energy and solvation energy and their importance in the context of stability and solubility of ionic compounds. Statement of Born-Landé equation for calculation of lattice energy, Born-Haber cycle and its applications, polarizing power and polarizability. Fajan's rules, ionic character in covalent compounds, bond moment, dipole moment and percentage ionic character.	1st week of October to 3rd week of October	Minor test in the last week of September
Unit 4	*Covalent bonding:* VB Approach: Shapes 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. Concept of resonance and resonating structures in various inorganic and organic compounds.	4th weekof October to1st week of November	2nd Assignement in the first week of October
Revision	Revision, problem solving	2nd and 3rd week of November	

Lesson Plan

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Department - Chemistry

Name of Teacher : **Dr. Sudesh** Class : **B.Sc 5th Semester**

Subject: **POLYMER CHEMISTRY-I** (CCL-503(i)) Paper : **Theory**

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	Introduction and history of polymeric materials: Different schemes of classification of polymers, Polymer nomenclature, Molecular forces and chemical bonding in polymers, Texture of polymers. Nature and structure of polymers-Structure and Property relationships.	1st week of August to 1st week of September	Verbly test
Unit 2	Criteria for synthetic polymer formation, classification of polymerization processes, Relationships between functionality, extent of reaction and degree of polymerization. Bi-functional systems, Polyfunctional systems. Properties of Polymers (Physical, thermal, flow & mechanical properties).	2nd week of September to 1st week of October	Ist Assignment in1st week of September
Unit 3	Brief introduction to preparation, structure, properties and application of the following polymers: polyolefins, polystyrene and styrene copolymers, poly(vinyl chloride) and related polymers, poly(vinyl acetate) and related polymers, acrylic polymers, fluoro polymers, polyamides and related polymers.	2nd week of October to 3rd week of October	Minor test in the last week of October

Unit 4	Polycarbonates,Phenol formaldehyde resins (Bakelite, Novalac), polyurethanes, silicone polymers, polydienes, Conducting Polymers, [polyacetylene, polyaniline, poly(p-phenylene sulphide polypyrrole, polythiophene)].	4th week of October to1st week of november	2nd Assignement in the 3rd week of October
Revision	Revision, problem solving	2nd and 3rd week of November	

Lesson Plan

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Department - Chemistry

Name of Teacher : **Dr. Sudesh** Class : **B.Sc 5th Semester**

Subject: **POLYMER CHEMISTRY-II** (CCL-504(i)) Paper : **Theory**

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	Mechanism and kinetics of step growth, radical chain growth, ionic chain (both cationic and anionic) and coordination polymerizations, Mechanism and kinetics of copolymerization, polymerization techniques.	1st week of August to 1st week of September	Verbly test
Unit 2	Determination of crystalline melting point and degree of crystallinity, Morphology of crystalline polymers, Factors affecting crystalline melting point. Glass transition temperature (Tg) and determination of Tg, Free volume theory, WLF equation, Factors affecting glass transition temperature (Tg).	2nd week of September to1st week of October	Ist Assignment in 1st week of October

Unit 3	Determination of molecular weight of polymers (Mn, Mw, etc) by end group analysis, viscometry, light scattering and osmotic pressure methods.Molecular weight distribution and its significance.Polydispersity index.	2nd week of October to 3rd week of October	Minor test in the last week of October
Unit 4	Polymer Solution: Criteria for polymer solubility, Solubility parameter, Thermodynamics of polymer solutions, entropy, enthalpy, and free energy change of mixing of polymers solutions, Flory- Huggins theory, Lower and Upper critical solution temperatures.	4th week of October to 1st week of November	2nd Assignement in the 3rd week of October
Revision	Revision, problem solving	2nd week of November	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Name of Teacher : **Manjeet Malik**

Class : **B.Sc 1st Semester** Subject: **Biology-I** Paper : **Theory**

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	ecosystem; cell; Biology and everyday life; the origin of life; Major events in the history of life; Mechanism of Macroevolution; Phylogeny and the tree of life; Kingdoms of Life; Darwinian view of life and origin of species	1st week of August to 4th week of August	Verbly test
Unit 2	Variation on Mendel's Law; flow of genetic information from DNA to RNA to protein; Genetic Variation; genes and gene activities; Developmental noise; Detecting macromolecules of genetics; Model organisms for the genetic analysis; Distinction between Phenotype and Genotype	1st week of September to 3rd week of September	Ist Assignment in 3rd week of September
Unit 3	Structure of an atom; The energy level of electron; The formation and function of molecules depend on chemical bonding between atoms; Chemical reaction make or break chemical bonds; The water molecule is polar; Properties of water; Ionization of water;Organic chemistry-the study of carbon compounds; what makes carbon special? Properties of organic compounds	4th week of September to 3rd week of October	Minor test in 2nd week of October
Unit 4	Carbohydrates act as fuel and building materials; Lipids are group of hydrophobic molecules; structures and functions of protiens; Role of Nucleic acids in storing and transmitting hereditary information	4th week of October to1st week of november	2nd Assignement in the 3rd week of october

Revision	Revision, problem solving	1st and 2nd week of November	

Lesson plan

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Department - Chemistry

Name of Teacher : Dr.Manjeet Malik Class : **B.Sc 5th Semester**

Subject: **Fuel Chemistry** (CCS-505(ii)) Paper : **Theory**

Unit	Description of Chapter/Topic	Duration	Assignment/Test
Unit 1	Review of energy sources (renewable and non-renewable). Classification of fuels and their calorific value. Coal: Uses of coal (fuel and nonfuel) in various industries, its composition, carbonization of coal. Coal gas, producer gas and water gas—composition and uses. Fractionation of coal tar, uses of coal tar bases chemicals, requisites of a good metallurgical coke, Coal gasification (Hydro gasification and Catalytic gasification), Coal liquefaction and Solvent Refining. Petroleum and Petrochemical Industry: Composition of crude petroleum, Refining and different types of petroleum products and their applications.	1st week of August to 4th week of September	Verbly test and presentation Test in 4th week of September
Unit 2	Fractional Distillation (Principle and process), Cracking (Thermal and catalytic cracking), Reforming Petroleum and non-petroleum fuels (LPG, CNG, LNG, bio-gas, fuels derived from biomass), fuel from waste, synthetic fuels (gaseous and liquids), clean fuels. Petrochemicals: Vinyl acetate, Propylene oxide, Isoprene, Butadiene, Toluene and its derivatives Xylene. Lubricants: Classification of lubricants, lubricating oils (conducting and nonconducting) Solid and semisolid lubricants, synthetic lubricants.	1st week of October to 2nd week of November	Assignment in 3rd week of October

	Properties of lubricants (viscosity index, cloud point, pore point) and their determination.		
Revision	Revision, problem solving	2nd and 3rd week of November	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Name of Teacher : Dr. Manjeet Malik

Class : **B.Sc.math(hons.) 1st semester** Subject:**Chemistry** Paper : **Theory**

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	Chemical Thermodynamics :Objectives and limitations of Chemical Thermodynamics, state functions, thermodynamic equilibrium, work, heat, internal energy, enthalpy. First Law of Thermodynamics: First law of thermodynamics for open, closed and isolated systems. Reversible isothermal and adiabatic expansion/compression of an ideal gas.Irreversible isothermal and adiabatic expansion.Enthalpy change and its measurement, standard heats of formation and absolute enthalpies.Kirchoff's equation. Second and Third Law: Various statements of the second law of thermodynamics. Efficiency of a cyclic process (Carnot's cycle). Entropy: Entropy changes of an ideal gas with changes in P,V, and T. Free energy and work functions. Gibbs-Helmholtz Equation, Criteria of spontaneity in terms of changes in free energy.Introduction to Third law of thermodynamics.	1st week of August to 4th week of August	Test in 1st week of September
Unit 2	Arrhenius theory of electrolytic dissociation.Conductivity, equivalent and molar conductivity and their variation with dilution for weak and strong electrolytes.Molar conductivity at infinite dilution.Kohlrausch law of independent migration of ions.Ionic velocities, mobilities and their determinations, transference numbers and their relation to ionic mobilities, determination of transference numbers using Hittorf and Moving Boundary methods.Applications of conductance to	1st week of September to 4th week of September	1st Assignement in the last week of September

	measure degree of dissociation of weak electrolytes. Quantitative aspects of Faraday's laws of electrolysis, rules of oxidation/reduction of ions based on half cell potentials, application of electrolysis in metallurgy and industry.Chemical cells with examples; Standard electrode (reduction) potential.		
Unit 3	Electronic Displacements: Inductive Effect, Electromeric Effect, Resonance and Hyperconjugation. Cleavage of Bonds: Homolysis and Heterolysis.Structure, shape and reactivity of organic molecules: Nucleophiles and electrophiles.Reactive Intermediates: Carbocations, Carbanions and free radicals.Strength of organic acids and bases: Comparative study with emphasis on factors affecting pK values.	1st week o October to 3rd week of October	2nd Assignement in the 3rd week of October
Unit 4	Conformations with respect to ethane, butane and cyclohexane.Interconversion of WedgeFormula, Newmann, Sawhorse and Fischer representations.Concept of chirality (uptotwocarbon atoms). Configuration: Geometrical and Optical isomerism; Enantiomerism,Diastereomerism and Meso compounds). Threo and erythro; D and L; cis–transnomenclature; CIP Rules: R/ S (for upto 2 chiral carbon atoms) and E / Z Nomenclature (forupto two C=C systems). Chemistry of Biomolecules :Occurrence, classification of Carbohydrates.Amino acids, peptides and their classification.α-Amino Acids . Zwitterions, pKavalues, isoelectric point, components of nucleic acids, nucleosides and nucleotides.	4th week of October to 1st week of November	
	Revision	2nd week of November	

Lesson Plan
Government College, Hansi
Unit wise Lesson Plan for Odd Semester 2023-24

Department: Chemistry

Name of Teacher: Priyanka Punia Class: B.Sc3rd NM
Subject: Chemistry Paper:

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Structure, bonding and properties (acidic/ basic nature, oxidizing/ reducing nature and hydrolysis of the Following compounds and their applications in industrial and environmental chemistry wherever Applicable: Diborane and concept of multicentre bonding, hydrides of Groups 13 (EH3), 14, 15, 16 and 17. Oxides of N and P, Oxoacids of P, S and Cl.	24-07-2023 to 15-08-2023	
Unit-2		16-08-2023 to	Test

	Halides and oxohalides of P and S (PCl3, PCl5, SOCl2 and SO2Cl2) Interhalogen compounds. A brief idea of pseudohalides	11-09-2023	
Unit-3	Noble gases: Rationalization of inertness of noble gases, clathrates, preparation and properties of XeF2, XeF4 and XeF6 ,bonding in these compounds using VBT and shapes of noble gas compounds using VSEPR Theory	12-09-2023 to 07-10-2023	Assignment
Unit-4	Inorganic Polymers: Types of inorganic polymers and comparison with organic polymers, structural	08-10-2023 to 10-11-2023	

	Features, classification and important applications of silicates. Synthesis, structural features and Applications of silicones.Borazines and cyclophosphazenes – preparation, properties and reactions. Bonding in (NPCl2)		
Revision	Revision of the Syllabus	15-11-2023 to Exam	

Lesson Plan
Government College, Hansi
Unit wise Lesson Plan for Odd Semester 2023-24

Department: Chemistry

Name of Teacher: Priyanka Punia Class: B.Sc3red NM

Subject: Chemistry Paper: Chemistry of Main Group Elements 1

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Acids and Bases: Bronsted–Lowry concept, conjugate acids and bases, relative strengths of acids and Bases, effects of substituent and solvent, differentiating and levelling solvents. Lewis acid-base concept, Classification of Lewis acids and bases, Lux-Flood concept and solvent system concept.Hard and soft Acids and bases (HSAB concept), applications of HSAB process	24-07-2023 to 15-08-2023	
Unit-2	General Principles of Metallurgy: Chief modes of occurrence of metals based on standard electrode	16-08-2023 to 11-09-2023	Test

	Potentials, Ellingham diagrams for reduction of metal oxides using carbon and carbon monoxide as Reducing agents. Hydrometallurgy with reference to cyanide process for gold and silver. Methods of purification of Metals (Al, Pb, Ti, Fe, Cu, Ni, Zn, Au): electrolytic refining, zone refining, van Arkel-de Boer process, Parting Process, Mond's process and Kroll Process.		
Unit-3	s- and p-Block Elements	12-09-2023 to 07-10-2023	Assignment

	Periodicity in s- and p-block elements with respect to electronic configuration, atomic and ionic size, Ionization enthalpy, electron gain enthalpy, electronegativity (Pauling scale). General characteristics of s-block metals like density, melting and boiling points, flame colour and Reducing nature. Oxidation states of s- and p-block elements, inert-pair effect, diagonal relationships and anomalous Behaviour of first member of each group. Allotropy in C, P and S.		
Unit-4	Complex forming tendency of s block elements and a preliminary idea of crown ethers and cryptates, Structures of basic beryllium acetate, salicylaldehyde/ acetylacetonato complexes of Group 1 metals.	08-10-2023 to 10-11-2023	

	Solutions of alkali metals in liquid ammonia and their properties. Common features, such as ease of formation, solubility and stability of oxides, peroxides, superoxides, Sulphates and carbonates of s-block metals.		
Revision	Revision of the Syllabus	15-11-2023 to Exam	

Lesson Plan
Government College, Hansi
Unit wise Lesson Plan for Odd Semester 2023-24

Department: Chemistry

Name of Teacher: Priyanka Punia Class: B.Sc.I NM

Subject: Chemistry Paper: Organic Chemistry

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Physical Effects, Electronic Displacements: Inductive Effect, Electromeric Effect, Resonance and Hyperconjugation. Cleavage of Bonds: Homolysis and Heterolysis. Structure, shape and reactivity of organic molecules: Nucleophiles and Electrophiles. Reactive Intermediates: Carbocations, Carbanions and free radicals. Strength of organic acids and bases: Comparative study with emphasis on factors Affecting pK values. Aromaticity: Benzenoids and Hückel's rule.	24-07-2023 to 15-08-2023	

Unit-2	Conformations with respect to ethane, butane and cyclohexane. Interconversion of Wedge Formula, Newmann, Sawhorse and Fischer representations. Concept of Chirality (upto two carbon atoms). Configuration: Geometrical and Optical Isomerism; Enantiomerism, Diastereomerism and Meso compounds). Threo and Erythro; D and L; cis – trans nomenclature; CIP Rules: R/ S (for upto 2 chiral Carbon atoms) and E / Z Nomenclature (for upto two C=C systems).	16-08-2023 to 11-09-2023	Test
Unit-3		12-09-2023 to 07-10-2023	Assignment

	Alkanes: (Upto 5 Carbons). Preparation: Catalytic hydrogenation, Wurtz Reaction, Kolbe's synthesis, from Grignard reagent. Reactions: Free radical Substitution: Halogenation. Alkenes: (Upto 5 Carbons) Preparation: Elimination reactions: Dehydration of Alkenes and dehydrohalogenation of alkyl halides (Saytzeff's rule); cis alkenes (Partial catalytic hydrogenation) and trans alkenes (Birch reduction). Reactions: Cis- Addition (alk. KMnO4) and trans-addition (bromine), Addition of HX (Markownikoff's and anti-Markownikoff's addition), Hydration, Ozonolysis, Oxymecuration-demercuration, Hydroboration-oxidation.		

Unit-4	Alkynes: (Upto 5 Carbons) Preparation: Acetylene from CaC2 and conversion Into higher alkynes; by dehalogenation of tetra halides and dehydrohalogenation of Vicinal-dihalides. Reactions: formation of metal acetylides, addition of bromine and alkaline KMnO4, ozonolysis and oxidation with hot alk. KMnO4.	08-10-2023 to 10-11-2023	
Revision	Revision of the Syllabus	15-11-2023 to Exam	

Lesson Plan
Government College, Hansi
Unit wise Lesson Plan for Odd Semester 2023-24

Department: Chemistry

Name of Teacher: Renu Rani Class: B.Sc. 3rd Sem NM
Subject: Chemistry Paper: Physical Chemistry-2(CCL-304)

Unit	Description of Chapter / Topics	Schedule/ Duration	Assignment / Test
Unit-1	**Solutions** Thermodynamics of ideal solutions: Ideal solutions and Raoul's law, deviations from Raoul's law – non-ideal solutions. Vapour pressure-composition and temperature composition curves of ideal andnon-ideal solutions. Distillation of solutions. Azeotropes. Colligative properties ofsolutions. Thermodynamic derivations of relation between amount of solute and elevation in boilingpoint and depression in freezing point. Partial miscibility of liquids: Critical solution temperature; effect of impurity on partial miscibility of liquids. Immiscibility of liquids-Principle of steam distillation.	4th week of July- 1st week of August	**Test**-2nd week of August **Assignment 1**- 3rd Week of August
Unit-2	**Phase Equilibrium** Phases, components and degrees of freedom of a system, criteria of phase equilibrium. Gibbs Phase Rule and its thermodynamic derivation. Derivation of Clausius – Clapeyron equation and its importance in phase equilibria. Phase diagrams of one-component systems (water and sulphur) andtwo component systems involving eutectics, congruent and incongruent melting points (lead-silver, and Na-K only).	2nd Week of August – mid of 3rd week of August	**Test**- 3rd week of August
Unit 3	**Conductance** Conductivity, equivalent and molar conductivity and their variation with dilution for weak and strong electrolytes.Kohlrausch law of independent migration of ions.	4th Week of August- 1st week of September	**Test**- 4th Week of August

	Transference number, ionic mobility. Applications of conductance measurements: determination of degree of ionization of weak electrolyte, solubility and solubility products of sparingly soluble salts, ionic product of water, hydrolysis constant of a salt. Conductometric titrations (only acid-base).Concept of pH and pK_a, buffer solution, buffer action, Henderson Hazel Blac equation.		**Assignment 2**- 2nd Week of September
Unit-4	**Electrochemistry** Reversible and irreversible cells. Concept of EMF of a cell. Measurement of EMF of a cell. Nernst equation and its importance. Types of electrodes. Standard electrode potential. Electrochemical series. Thermodynamics of a reversible cell, calculation of thermodynamic properties: ΔG, ΔH and ΔS from EMF data. Calculation of equilibrium constant from EMF data. Concentration cells with transference and without transference. Liquid junction potential and salt bridge.pH determination using hydrogen electrode and quinhydrone electrode. Potentiometric titrations - qualitative treatment (acid-base and oxidation-reduction only).	2nd Week of September- mid of third week of September	**Test**-3rd Week of September
Revision	Problems and Revision of all 4 units	3rd week of November	

Lesson Plan
Government College, Hansi
Unit wise Lesson Plan for Odd Semester 2023-24

Department: Chemistry

Name of Teacher: Renu Rani Class: B.Sc. 3rd Sem NM
Subject: Chemistry Paper: Organic Chemistry (CCL-305)

Unit	Description of Chapter / Topics	Schedule/ Duration	Assignment / Test
Unit-1	**Carboxylic acids and their derivatives** *Preparation:* Acidic and Alkaline hydrolysis of esters. *Reactions:* Hell-Vohlard-Zelinsky Reaction. (Upto 5 carbons) *Preparation* Acid chlorides, Anhydrides, Esters and Amides from acids and their interconversion. *Reactions:* Comparative study of nucleophilicity of acyl derivatives. Reformatsky Reaction, Perkin condensation	4th week of September-1st week of October	**Test**- 1st Week of October **Assignment 1**-4th Week of September
Unit-2	**Amines and Diazonium Salts** Amines (Aliphatic and Aromatic) (Upto 5 carbons) *Preparation*: from alkyl halides, Gabriel's Phthalimide synthesis, Hofmann Bromamide reaction, *Reactions:* Hofmann vs. Saytzeff elimination, Carbylamine test, Hinsberg test, with HNO2, Schotten-Baumann Reaction. Electrophilic substitution (case aniline): nitration, bromination, sulphonation. **Diazonium salts**: *Preparation:* from aromatic amines. *Reactions:* conversion to benzene, phenol, dyes	2nd Week of October-3rd week of October	**Test**-3rd Week of October **Assignment 2**-2nd Week of October

Unit 3	**Amino Acids,Peptides and Proteins** *Preparation of Amino Acids:* Strecker synthesis using Gabriel's phthalimide synthesis. Zwitterion, Isoelectric point and Electrophoresis. *Reactions of Amino acids*: ester of –COOH group, acetylation of –NH2 group, complexation with Cu2+ ions, ninhydrin test. Overview of Primary, Secondary, Tertiary and Quaternary Structure of proteins. Determination of Primary structure of Peptides by degradation Edmann degradation (N-terminal) and C–terminal (thiohydantoin and with carboxypeptidase enzyme). Synthesis of simple peptides (upto dipeptides) by N-protection (t-butyloxycarbonyl and phthaloyl) & C-activating groups and Merrifield solid-phase synthesis	3rd Week of October -4th Week of October	**Test**- 1st Week of November
Unit-4	**Carbohydrates:** Classification, and General Properties, Glucose and Fructose (open chain and cyclic structure), Determination of configuration of monosaccharides, absolute configuration of Glucose and Fructose, Mutarotation, Ascending and descending in monosaccharides. Structure of disacharrides (sucrose, cellobiose, maltose, lactose) Polysacharrides (starch and cellulose) excluding their structure elucidation.	1st Week of November-2nd week of November	**Test**-2nd Week of November
Revision	Problems and Revision of all units.	3rd week of November	

Unit-1	AJMER SINGH [COMMERC] CORPORATE ACCOUNTING, B.COM 3RD SEM VALUATUION OF GOODWILL AND SHARES ISSUE OF SHARES , FORFIETURE, RE-ISSUE,BUY BACK AND BOOK BUILDING, BONUS SHARES. ISSUE OF DEBENTURES,	01AUG-31 AUG. 2023	
UNIT-2 AND 3	FINAL ACCOUNTS OF COMPANIES ACCOUNTS OF HOLDING COMPANIES REDEMPTION OF PREFERENCE SHARE REDEMPTION OF DEBENTURES	01 SEPT. - 30 SEPT.2023 01 /10/2023 TO 31/10/23	
UNIT -4	INTERNAL RECONSTRUCTION OF COMPANIES AMALGAMATION OF COMPANIES TEST -01 AND TEST- 02 ASSIGNMENTS AND VIVA	01/11/23— 30/11/23 01/12/23 TO 15/12/23	

MR. AJMER SINGH, HUMAN RESOURCE PLANNING, M.COM 3RD SEM.

UNIT	TOPICS	PERIOD
1.	HRP-CONCEPTS, OBJECTIVES, PROBLEMS, STRATEEGIES, JOB ANALYSIS, HRP PROCEDURE AND ACTION PLAN	01-31 AUG.23 AS-01
2.	HR DMAND AND SUPPLY FORECASTING-ASSESSMENT AND TEECHN IQUES, SELECTION, SEPARATION.	01-30 SEPT. 23 AS-02
3.	RETENTION , TRAINNING AND REDEPLOYMENT, PRODUCTIVITY MGT, AND HR PLANNING, WORK STUDY, METHOD STUDY, WORK MEASUREMENT	01-31 OCT. 23 TEST-01 AND 02 PRESENTATION
4.	JOB DESIGN WORK SCHEDULING, HRP IN CHANGING CONTEXT, HR INFO, SYSTEM. HR ACCOUNTING AND AUDITING. STRUCTURE OF LABOUR FORCE. DMOGRAPHIC CHANGES	01-25 NOV. 23 VIVA ,GD

MR. AJMER SINGH, HUMAN RESOURCE PLANNING, M.COM 3RD SEM.

UNIT	TOPICS	PERIOD
1.	HRP-CONCEPTS, OBJECTIVES,PROBLEMS, STRATEEGIES, JOB ANALYSIS, HRP PROCEDURE AND ACTION PLAN	01-31 AUG.23 AS-01
2.	HR DMAND AND SUPPLY FORECASTING-ASSESSMENT AND TEECHN IQUES, SELECTION, SEPARATION.	01-30 SEPT. 23 AS-02
3.	RETENTION , TRAINNING AND REDEPLOYMENT, PRODUCTIVITY MGT, AND HR PLANNING, WORK STUDY, METHOD STUDY, WORK MEASUREMENT	01-31 OCT. 23 TEST-01 AND 02 PRESENTATION
4.	JOB DESIGN WORK SCHEDULING, HRP IN CHANGING CONTEXT, HR INFO, SYSTEM. HR ACCOUNTING AND AUDITING.	01-25 NOV. 23

	STRUCTURE OF LABOUR FORCE. DMOGRAPHIC CHANGES	VIVA ,GD

LESSION PLAN --- SALES AND DISTRIBUTION MANAGEMENT, M.COM 3RD SEM.
MR. AJMER SINGH

UNIT-1	SALES MGT-ROLS NATURES, RESPONSIBILITEES,SKILLS, SELLING THEORIES SALES PLANNING AND FORECASTING ORGANISATIONAL STRUCTURES	01-31 AUG.23 TEST-01
UNIT-2	FIELD SALES ORG. SALES FORCE SIZE,TERRITORY MGT,ROUTING,QUOTA, RECRUITMENT,SELECTION ,TRAINNING, COMPANSATION, MOTIVATION, LEADERSHIP	01-30 SEPT. 23 TEST-02
UNIT-3	SALES MEETING AND CONTESTS, CONTROL PROCSS,COST AND PROFIT ANALYSIS, EVALUATING SALES FORCE,ETHICAL ISSUES,	01-31 OCT. 2023 AS-1 AND AS-2, VIVA
UNIT-4	DISTRIBUTION CHANNEELS- ROLES AND FACTORES AFFECTING, CHANNELS BEHAVIOURS, CHANNEL DESIGN DECISION, CHANNEL MGT DECISION,INTENSITY AND PARTERNERING RELATIONSHIP	01-25 NOV. 23 PRESENTATION GD

Lesson Plan-2023-24

Subject: Computer Application in Business

Class: B.Com Ist (Sem) **Name: Mohinder Singh**

Sr. No	Date	Theory	Parctical
1	24-07-2023 to 31-07-2023	Introduction of Computer and Components	MS-Word
2	01-08-2023 to 15-08-2023	Characteristics of Computer Input and Output Devices and Memory	MS-Word
3	16-08-2023 to 31-08-2023	Modern CPU and Processor Software and Its types, Programming Language	MS-Word
4	01-09-2023 to 15-09-2023	Information System Need of, Data and Information System	MS-Excel
5	16-09-2023 to 30-09-2023	Advantage of Information System and Type of	MS-Excel
6	01-10-2023 to 15-10-2023	IT Introduction, Need and Application of IT	MS-Power-Point
7	15-10-2023 to 30-10-2023	Impact of IT on Business E-Commerce and Its Advantages	MS-Power-Point

8	**30-10-2023 to 15-11-2023**	**E-Business and Introduction of E-Business**	**MS-Power-Point and Revision**

CLASS:B.Com.-III Year (V Sem)(2023-24) NAME OF PAPER –Income Tax

PAPER CODE – BCOM 504

Teacher name- Shamendra Bamal

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week	Basic concepts of Income Tax: Assessee, Person; Income; Agricultural income; Previous year; Assessment year; Gross total income; Total income;
		2nd week	Advance Tax; Tax deducted at source;
		3rd week	Distinction between Capital and Revenue Receipts and Expenditure.
		4th week	Residential Status & Basis of Charge
2.	September	1st week	Residential Status & Basis of Charge
		2nd week	Scope of Total Income; Tax Rates; income which does not form part of total income; Tax Management: Tax evasion, Avoidance and Tax planning.
		3rd week	Computation of Income under Various Heads: Income from Salary
		4th week	Computation of Income under Various Heads: Income from Salary
3.	October	1st week	Computation of Income under Various Heads: Income from Salary
		2nd week	Income from House Property;
		3rd week	Profit and Gains of Business or Profession;
		4th week	Capital Gains; Income from Other Sources.
4.	November	1st week	Clubbing provisions and Set Off and Carry Forward of Losses; Deductions from Gross Total Income:
		2nd week	Deductions in respect of certain payments; Specific deductions in respect of certain income; Rebates and Reliefs.
		3rd week	Revision
		4th week	Revision

CLASS:M.Com.-II Year (III Sem)(2023-24)

NAME OF PAPER – **MC-301 CORPORATE GOVERNANCE AND BUSINESS ETHICS**

Teacher name- Shamendra Singh

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week	Evolution of corporate governance; developments in India; regulatory framework of corporate governance in India;
		2nd week	SEBI guidelines on corporate governance;
		3rd week	reforms in the Companies Act.
		4th week	Corporate management vs. governance; internal constituents of the corporate governance
2.	September	1st week	key managerial personnel (KMP); chairman-qualities of a chairman, powers, responsibilities and duties of a chairman;
		2nd week	chief executive officer (CEO), role and responsibilities of the CEO.
		3rd week	Introduction to Business Ethics: The concept, nature and growing significance of Ethics in Business, Ethical Principles in Business,
		4th week	Ethics in Management, Theories of Business Ethics, Ethical Issues in Business,
3.	October	1st week	Business Ethics in 21st Century
		2nd week	Ethics in various functional areas of Business:
		3rd week	Ethics in Finance,
		4th week	Ethics in HRM, Ethics in Marketing,
4.	November	1st week	Ethics in Production and Operation Management.
			Ethics in Production and Operation Management.
		2nd week	Revision
			Revision
		3rd week	

		4th week	

CLASS:M.Com.-2nd Year (III Sem.)(2023-24)

NAME OF PAPER – **OE - 303 PERSONAL FINANCE**

Teacher name- Shamendra Singh

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week	Personal Finance: Meaning and importance. Financial planning: meaning, process and role of financial planner.
		2nd week	Risk profiling: client data analysis, life cycle, wealth cycle.
		3rd week	Asset allocation: Strategic, Tactical, Fixed and Flexible.
		4th week	Risk Management: Meaning, process and importance.. Life Insurance and General Insurance.
2.	September	1st week	Distinguish between risk assessment, risk management and risk avoidance
		2nd week	Assessment of requirement of Health Insurance,
		3rd week	Choice of products for risk coverage
		4th week	Investment Management: meaning and importance.
3.	October	1st week	Investment avenues: equity, debt, gold, real estate, mutual funds, exchange traded funds.
		2nd week	Portfolio management: meaning, construction, evaluation and revision.
		3rd week	Loan management: meaning, types, importance and assessment, personal, car loan, home Loan etc.
		4th week	Tax planning: basics terms of income tax, advance tax, tax deduction at source,
4.	November	1st week	deductions under section 80C, 80 CCC, 80 D and 80 G. Taxation of investment products.
		2nd week	Retirement planning, Management of nomination, power of attorney and will
		3rd week	Revision
		4th week	Revision

Name of

GOVERNMENT COLLEGE HANSI
Department of Commerce
Lesson Plan for Odd Semester 2023-24

Teacher: **Shiv Kumar** Class: **M.Com. Sem. - 1**
Subject: **e-Commerce** Paper: **MC-106**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Technology and Infrastructure for E-Commerce: Framework of E-commerce; Network Infrastructure for E-Commerce – Market Forces Influencing I-way, Network Access Equipment, Public Policy Issues Shaping the I-way; EDI - Applications in Business, Legal, Security and Privacy Issues of EDI; Components of EDI Standards, ASC X12 and EDIFACT.	4 Weeks	Project 1 and Assignment 1 2nd Week of October
Unit-2	E-Commerce and Retailing: Changing Retail Industry Dynamics, Mercantile Models from the Consumer's Perspective, Management Challenges in Online Retailing. Intranets and Customer Asset Management: Basics of Customer Asset Management, Online Sales Force, Online Customer Service and Support, Technology and Marketing Strategy.	2 Weeks	Test 1 4th Week of October
Unit-3	Intranets and Manufacturing: Integrated Logistics, Agile Manufacturing, Emerging Business Requirements, Manufacturing Information Systems, Intranet-based Manufacturing, Logistics Management. E-Commerce and Online Publishing: Why Online Publishing, Online Publishing approaches, Advertising and Online Publishing. E-Commerce and Banking: Changing Dynamics in the Banking Industry, Home Banking Implementation Approaches, Management Issues in Online Banking.	3 Weeks	Assignment 2 2nd Week of November
Unit-4	Intranets and Corporate Finance: An Introduction, Financial Systems, Financial Intranets, Software Modules in Financial Information Systems, Human Resource Management Systems, Size/Structure of Financial Software Market.	3 Weeks	Viva-voce Exam 1st Week of November

Shiv Kumar
Assistant Professor (Commerce)

GOVERNMENT COLLEGE HANSI
Department of Commerce
Lesson Plan for Odd Semester 2023-24

Name of Teacher: **Shiv Kumar** Class: **B.Com. Sem. - 3**
Subject: **Computerized Accounting System** Paper: **BCOM 304**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Introduction: installation of Tally, ERP9 – Licensing configurations – Tally Vault Password – Security Control in Tally, ERP9 – Splitting Company Data – Backup and Restore.	3 Weeks	Project 1 and Assignment 1 2nd Week of October
Unit-2	Accounting: voucher entry, budget, cost center, balance sheet, profit and loss account, currency, debit note, credit note, interest calculation.	3 Weeks	Test 2 4th Week of October
Unit-3	Inventory: stock item, sales order, purchase order, delivery note, rejection out. Computerized Tax Liability Calculation.	3 Weeks	-
Unit-4	Payroll: Salary Accounting – Introduction to Payroll – Payroll Masters – Payroll Vouchers – Overtime Payment – Gratuity – Advanced Payroll Transactions Basic Salary, Overtime, Bonus, Gratuity, Loan, ESI, Provident Fund, Pension, Commission.	3 Weeks	Viva-voce Exam 1st Week of November

Shiv Kumar
Assistant Professor (Commerce)

Govt. College Hansi

Lesson Plan

Unit wise lesson plan for the Odd Semester, 2023-24

Teacher: **Vijay Kumar Yadav** Class:**B. Com 2nd Year (Only Wed, Thu, Fri & Sat)**

Subject: **Fundamentals of Insurance (BCOM 306(ii))** Section: **NA**

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	Introduction of insurance: Life and general insurance, purpose, need and principles of insurance as a social security tool.	1st Week of August to 3rd Week of August	
2	Fire insurance: principles of fire insurance contracts, fire insurance policy, conditions, assignment of policy, claims settlement procedure.	4th Week of August to 2nd Week of September	1st assignment in the first week of September
3	Marine insurance: Marine insurance policy and its conditions, premium, double insurance, assignment of policy, warranties, voyage, loss and abandonment, partial losses and particular charges, salvage, total losses and measures of indemnity, claims settlement procedures.	3rd Week of September to 1st Week of October	-Minor test 1 in the third week of September -2nd assignment in the first week of October
4	Accident and motor insurance: policy and claims settlement procedures, insurance intermediaries-role of agents and procedure for becoming an agent, cancellation of license, revocation/suspension/termination of agent appointment, code of conduct, unfair practices.	2nd Week of October to 1st Week of November	-Minor test 2 in the second week of October -Quiz in fourth week of October

VIJAY KUMAR YADAV

(Asst. Professor of Commerce)

Govt. College Hansi

Lesson Plan

Unit wise lesson plan for the Odd Semester, 2023-24

Teacher: **Vijay Kumar Yadav** Class: **B. Com 3rd Year**

Subject: **Management Accounting (BCOM 501)** Section: **B**

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	Management accounting: meaning, scope, importance and techniques. Distinction between financial accounting and management accounting, Distinction between cost accounting and management accounting,	1st Week of August to 3rd Week of August	
2	Budgeting and budgetary control: Concept of Budgeting and budgetary control, Objective and advantages of budgetary control, Types of budgets and their preparation, Essentials of a budgetary control system, Performance budgeting and zero-base Budgeting.	4th Week of August to 2nd Week of September	1st assignment in the first week of September
3	Marginal costing: Meaning, Nature, Uses and Limitations, Break-even Analysis, PV Ration, Margin of safety, Angle of Incidence, Decision involving alternative Choices.	3rd Week of September to 1st Week of October	-Minor test 1 in the third week of September -2nd assignment in the first week of October
4	Financial analysis: Meaning, and Importance, Ratio analysis: Meaning, importance, limitations and calculations of ratios. Cash flow statement: Uses and preparation.	2nd Week of October to 1st Week of November	-Minor test 2 in the second week of October -Quiz in fourth week of October

Govt. College Hansi

Lesson Plan

Unit wise lesson plan for the Odd Semester, 2023-24

Teacher: **Vijay Kumar Yadav** Class: **B. Com 3rd Year**

Subject: **Banking Law and Practice (BCOM 503)** Section: **B**

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	Origin and evolution of banks- Meaning and definition of banking, Structure of Indian Banking System- Classification of banks, Functions of commercial banks, Regulatory framework and Compliances- Banking Regulation Act, 1949, Prevention of Money Laundering Act, 2002.	1st Week of August to 3rd Week of August	
2	Banker and Customer relationship, their mutual rights and duties- lien – Power to combine different accounts- Secrecy of account, Different types of accounts, Cheques, requisite of valid cheque, crossing of cheques, Meaning and types of Endorsement.	4th Week of August to 2nd Week of September	1st assignment in the first week of September
3	Types of securities and precautions taken for banker's advances and loans, Guarantees, Pledge, Lien, Mortgage, Charge- subject matters of collateral security, Factoring, Bill Discounting, Bank Guarantee, Letter of Credit, Commercial papers.	3rd Week of September to 1st Week of October	-Minor test 1 in the third week of September -2nd assignment in the first week of October
4	Contemporary and Emerging issues in Banking- Problem of NPAs, Capital adequacy norms, Banking Ombudsman Scheme, Technology driven developments, Ethics and Corporate Governance in Banks.	2nd Week of October to 1st Week of November	-Minor test 2 in the second week of October -Quiz in fourth week of October

Govt. College Hansi

Lesson Plan

Unit wise lesson plan for the Odd Semester, 2023-24

Teacher: **Vijay Kumar Yadav** Class: **M. Com 1st Year**

Subject: **Business Environment (MC 102)** Section: **NA**

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	Indicators og Internal and External Business environment, Environmental scanning and risk assessment, Concepts of economics systems, New Industrial policy- 1991 and Recent financial and economic reforms, Recent Monetary and Fiscal policy and their impact on Business Environment.	4th Week of August to 2nd Week of September	
2	Impact of Political, Economic, Social and Technological Environment on Emerging sectors of Indian economy, Public sector, Private sector, Services sector and SME sector, Privatisation in India, Public Private partnership, Challenges and opportunities in the rural sector.	3rd Week of September to 1st Week of October	-1st assignment in the third week of September -Quiz 1 in fourth week of September
3	Globalisation Business environment, Opportunities and challenges for MNC's in India, Foreign investment in India, Indian foreign trade and its impact on Balance of payment, Exchange rate movements and India's competitiveness in the world economy, world trade trends and economic integration. Contemporary issues: Climate change, Food security, Geopolitics sustainable development and de-globalisation.	2nd Week of October to 4th Week of October	-Minor test 1 in the second week of October -2nd assignment in the Third week of October
4	Legislations for Social responsibilities- Consumer protection act, 1986 and its amendments, Competition act, 2002 and its amendments and Environment protection act,1986, Foreign Exchange Management act,	1st Week of November to 4th	-Minor test 2 in the second week of November

	1999 (FEMA) and their influences on the business environment.	Week of November	-Quiz 2 in third week of November -Viva- voice in fourth week of November

VIJAY KUMAR YADAV

(Asst. Professor of Commerce)

Govt. College Hansi

Lesson plan

Unit wise lesson plan for the odd Semester- 2023-24

Teacher: Shilka **Class: B.com final**

Section: --- B **Subject: Business Ethics**

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	Business ethics, nature and growing significance in business, ethical principles in business and management, theories of business ethics, ethical issues in business	From first week of August to second week of August	.
Unit 2	Ethics in various functional areas of business, ethics in finance, ethics in HRM, ethics in marketing, ethics in production and operation management, ethics in global business, ethics in IT	From 3Rd week of August to 2nd week September	1st Minor test in the first week of September and assignment 2nd week of September
Unit 3	Ethical decision making, ethical dilemmas whistle blowing, social responsibility of business, and corporate governance corporate social responsibility under company act 2013	From 3Rd week of September to 2nd week of October	2nd assignment in the second week of October
Unit 4	Intellectual property right, patent,copy rights,trademarks and business ethics, ethical value system	From 3Rd week of October to 2nd week November	2nd test in the second week of November
Revision	Revision, presentation, problem solving	From 3Rd week of November onward	…..

Govt. College Hansi

Lesson plan

Unit wise lesson plan for the odd Semester, 2023-24

Teacher: Mr.Shiv Rattan Mittal & Mrs.Shilka **Class: B.COM 1st**
Subject: Principles of B.Mgt

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	Business: Nature and scope of Business; Forms of Business, Management: Definition, characteristics, scope and importance of management; Functional areas of management; Management and Administration; Levels of Management; Mintzberg's Managerial Roles.	From 6th August to 15th October.	1st assignment in the 1st week of October.
Unit 3	Planning: Definition, Nature, Objectives and importance, Planning Process, Types of Plans, Barriers to Effective Planning. Organizing: Definition, Nature, Principles of Organisation, Types of Organisation, Organizational Structure, Authority, Delegation and Centralization vs. Decentralization	From 6th August to 15th October.	2nd assignment in the 1st week of October.
Unit 2	Approaches to Management: Classical and Neo classical approach, Behavioural approach, Management science approach, Systems approach and Contingency approach- Highlighting the contributions of Henry Fayol, F.W. Taylor and Peter F. Drucker; Contemporary developments in approaches; Theory Z, McKinsey -7's, Quality Management.	From 16thOctober to 10th December.	1st Minor test in 3rd Week of November.
Unit 4	Staffing: Meaning, importance and scope, Matching job and people. Motivation: concept, objectives & significance. Leadership: concept, significance & functions, Leadership styles,	From 16thOctober to 10th December.	2nd Minor test in 3rd Week of November.

	approaches to leadership. Controlling: meaning and characteristics of control, process of control, prerequisites of an effective control system; controlling techniques.		
Revision	Revision, presentation, problem solving	From 10th December & Onwards	…….

Govt. College Hansi

Lesson Plan

Unit wise lesson plan for the Even Semester, 2023-2024

Teacher: **Shilka**

Class:M.**Com 1st 1st Sem**

Subject: Managerial Economics

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	**Theory of demand&Consumer Equilibrium.Utility and Indifference curve approach.Demand Function ,Elasticity of Demand and its significance in Managerial decision making, Demand Forecasting and its Techniques.**	1stweek of August to 4th Week of August	1st assignment in the last week of August
2	**Theory of Cost, Types of Cost,Production Cost, Selling Cost, R&D cost, Short-Run and Long run cost curves, Relation between Cost and Revenue,BreakEven Point,Economies and diseconomies of scale and scope, Production Function,Law of Variable Proportion and return to scale,ISO quant Curves.**	1st Week of September to Last Week of September.	Minor test in the Second week of September.
3	**Market Structure and Competition:Price & Outputs Determination under Perfect competition, Monopoly,Monopolistic Competition and Oligopoly.Modern Theories of Firm: Bamoul's Theory of Sales Maximization .**	2nd Week of October to last Week of October	2nd assignment in the last week of October
4	**Managerial Theory,Behavioural Theory ; National income: Concept and Measurement. And Revision……**	Month of November 2023	Minor test in the second week of November.

Govt. College Hansi

Lesson plan

Unit wise lesson plan for the Odd Semester 2023-24

Teacher: Mrs. Shilka **Class: B.COM III**

Section: B **Subject: Income Tax-I**

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	Introduction to income tax: concept, tax, person, income, agricultural income, casual income, previous year, financial year, assessment year, gross total income, total income, tax management, tax evasion, avoidance and tax planning.	From 6th August to 15th September	1st assignment in the 2nd week of September.
Unit 2	Basis of charges, scope of total income, residence and tax liability, income which does not form part of total income. Heads of income: Income from salary.	From 16th September to 15th October.	2nd assignment in the 2nd week of October.
Unit 3	Heads of income: House property; Profits and gains from business and profession.	From 16th October to 15th November.	Minor test in the 2nd week of November.
Unit 4	Capital gains; Income from other sources; Clubbing and aggregation of income; Provisions regarding set off and carry forward of losses.	From 16th November to 30th November.	…….
Revision	Revision, presentation, problem solving	From December onwards.	…….

Government College,Hansi…..Unit wise Lesson Plan for the Odd Semester,2023-24

Name of the Teacher **Mr. SHIV RATTAN MITTAL**

Class- B.Com 1st Sem. **Subject**-Principles of Business Management

Unit	**Description of Chapters/Topics**	**Duration**	**Assignment/Test**
Unit 1	Business : Nature, Scope & Forums, Mgt. : Levels of Mgt.	24th July,2023 - 15th Aug.,2023	1st Assignment in the 2nd Week of August
Unit 2	Approaches to Mgt. : Classical, Neo-Classical, Behavioural, System & Contingency Approach, Contribution of F.W.Taylor, Henry Fayol, & Peter F. Durcker.	16th Aug. – 31st Aug.,2023	1st Minor Test in the Last week of August
Unit 3	Planning, Organising, Delegation of Authority & Centralization v/s Decentralization.	1st Sept. – 30th Sept.,2023	2nd Assignment in the Last Week of September
Unit 4	Staffing, Motivation, Leadership & Controlling	1st Oct. – 9th Nov.,2023	2nd Minor Test in the Last Week of October.
Revision	Revision, Problem Solving & Quizzes	17th Nov. – 14th Dec.,2023	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester

2023-24

Department:- Commerce

Name of the Teacher:- Mr. SHIV RATTAN **Class:-** B.Com 5th Sem.

Subject- Financial Mgt. **Paper-** BCOM-502

Unit	Description of Chapters/Topics	Duration	Assignment/Test
Unit 1	**Financial Mgt. :** Goals, Functions & Decisions, Time Value of Money.	1st Aug.-31st Aug.	1st Assignment in the 3rd Week of August
Unit 2	**Capital Budgeting Decisions :** Introduction, Nature & Types of Investment Decisions & Methods, **Measure of Operating & Financial Leverage.**	1st Sept. – 30th Sept.	2nd Assignment in the Last Week of September
Unit 3	**Mgt. of Working Capital:** Meaning, Determinants, **Cost of Capital, Cash Mgt., Receivable Mgt., Inventory Mgt.**	1st Oct. – 15th Oct.	1st Minor Test in the 2nd Week of October
Unit 4	**Capital Structure :** Theories & its determinants, **Dividend Policy Models.**	16th Oct. – 31st Oct.	2nd Minor Test in the Last Week of October
Revision	**Revision, Problem Solving & Quizzes**	1st Nov. Onwards	……

Government College, Hansi

Unit wise Lesson Plan for Odd Semester

2023-24

Department:- COMMERCE

Name of the Teacher:- Mr. SHIV RATTAN **Class:-** M.Com 1st Sem.

Subject:- Financial A/c & Reporting **Paper:-** MC-104

Unit	Description of Chapters/Topics	Duration	Assignment/Test
Unit 1	**Introduction to Accounting:** Meaning, nature & scope, branches of accounting; GAAP: Demand & supply of financial statement information: Parties demanding financial statement information. Conflicts among parties, factors affecting demand for financial statement information.	16th Aug. – 31st Aug.	1st Assignment in the Last Week of August.
Unit 2	**Accounting Cycle:** Business transactions & source documents. Analyzing transaction, Journalizing & posting transactions, preparing a trial balance, adjusted trial balance & preparation of financial statements of trading concerns.	1st Sept. -30th Sept.	1ST Minor Test in the Last Week of Sept.
Unit 3	**The conceptual framework of financial Statements:** Purpose of the framework, scope & coverage. Qualitative characteristics of financial statements, Concept of capital & capital maintenance. Performa financial statements of corporate entities. Significance of notes to financial statements & accounting policies. Other financial reports: Auditor's report, Directors report & corporate governance report.	1st Oct. – 31st Oct.	2ND Minor Test in the 3rd Week of Oct.
Unit 4	**Quality of earnings:** Window dressing, Creative financial practices, impact of extraordinary items. Quality of disclosure in reported earnings. Financial Distress:	1st Nov. – 30th Nov.	2nd Assignment in the 3rd Week of Nov.

	Meaning, indicators, models of distress prediction.		
Revision	Revision, Problem Solving & Quizzes	1st Dec. Onwards	……

Govt. College Hansi

Lesson plan

Unit wise lesson plan for the odd Semester- 2023-24

Teacher: Sunita **Class: B.com final**

Section: --- A **Subject: Business ethics**

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	Business ethics, nature and growing significance in business, ethical principles in business and management, theories of business ethics, ethical issues in business	From first week of August to second week of August	.
Unit 2	Ethics in various functional areas of business, ethics in finance, ethics in HRM, ethics in marketing, ethics in production and operation management, ethics in global business, ethics in IT	From 3Rd week of August to 2nd week September	1st Minor test in the first week of September and assignment 2nd week of September
Unit 3	Ethical decision making, ethical dilemmas whistle blowing, social responsibility of business, and corporate governance corporate social responsibility under company act 2013	From 3Rd week of September to 2nd week of October	2nd assignment in the second week of October
Unit 4	Intellectual property right, patent,copy rights,trademarks and business ethics, ethical value system	From 3Rd week of October to 2nd week November	2nd test in the second week of November
Revision	Revision, presentation, problem solving	From 3Rd week of November onward	…..

Govt. College Hansi

Lesson plan

Unit wise lesson plan for the odd Semester- 2023-24

Teacher: Sunita **Class: B.com final**

Section: --- A and B **Subject: Human resource Management**

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	HRM meaning, concept,importance evolution of HRM,function,roll and responsibilities of H.R manager,emerging chalanges of HRM	From first week of August to second week of August	.
Unit 2	Human resource planning, objective, importance of HRP,job analysis, process of job analysis, recruitment and selection, orientation and socialisation, human resource retention strategies, HR outsourcing: opportunity in India	From 3Rd week of August to 2nd week September	1st Minor test in the first week of September and assignment 2nd week of September
Unit 3	Human resource training and development , methods of training , difference between training and development , potential and performance appraisal, process,need and importance, carrier planning and development	From 3Rd week of September to 2nd week of October	2nd assignment in the second week of October
Unit 4	Compensation mgt.for HR, concept of wages and salaries , development of a sound compensation system, types of wages and salaries, group incentive plans, meaning and categories, employee safety, health and welfare	From 3Rd week of October to 2nd week November	2nd test in the second week of November
Revision	Revision, presentation, problem solving	From 3Rd week of November onward	…..

Govt. College Hansi

Lesson plan

Unit wise lesson plan for the odd Semester- 2023-24

Teacher: Sunita **Class: B.com final**

Section: --- B **Subject: Management Accounting**

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	Management accounting: meaning scope importance, distinction between financial accounting and management accounting, distinction between management accounting and cost accounting	From first week of August to second week of August	.
Unit 2	Concept of budgeting and budgetary control, objectives and advantage of budgetary control,types of budgets and their preparation, essentials of a budgetary control system, performance budgeting and zero base budgeting	From 3Rd week of August to 2nd week September	1st Minor test in the first week of September and assignment 2nd week of September
Unit 3	Marginal costing: meaning ,nature, uses and limitations, break even analysis and PV ratio,Margin of safety, Angel of incidence decision involving alternative choices	From 3Rd week of September to 2nd week of October	2nd assignment in the second week of October
Unit 4	Financial analysis meaning and importance:Ratio analysis meaning importance, limitations and calculations of ratios, cash flow statement : meaning, uses and its preparation	From 3Rd week of October to 2nd week November	2nd test in the second week of November
Revision	Revision, presentation, problem solving	From 3Rd week of November onward	…..

Govt. College Hansi

Lesson plan

Unit wise lesson plan for the odd Semester, 2023-24.

Teacher: Surender Kumar **Class: M.com (P)**

Section: --- **Subject: CB**

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	Introduction to Consumer Behaviour. Its roots in various Disciplines. Interrelationship between consumer behaviour & marketing strategy. Market Research, process, research methods & tools types & its relevance	From 1st week of August to 3rd week of August	Group Discussion
Unit 2	Consumer as an individual- consumer needs & motivation, goals, dynamics of motivation, measurement of motives. Personality & consumer behaviour, nature, theories of personality & self concept, Consumer perception & information processing, dynamics of perception, consumer imagery & perceived risk, learning & consumer involvement, behavioural & cognitive learning theories & application to marketing, consumer attitude meaning, attitude formation & change, relationship between behaviour & attitude formation & structural models	From last week of August to 1st week of October	1st Minor test & 1st Assignment in the third week September
Unit 3	Group Dynamics & consumer Behaviour- Reference group meaning, types and affect, relevance and application. The family function decision making & family life cycle. Social class- meaning, types of status, lifestyle & mobility in social classes. Influence of culture, characteristics, measurement & core values of culture, sub culture aspects on consumer mind set, meaning, types & understanding of multiple sub cultural membership interaction & influence	From 2nd week of October to 1st week of November	2nd assignment & 2nd test in the First week of November

Unit 4	Group decision making process- personal influence & opinion leadership, meaning & dynamics of opinion leadership process, measurement of opinion leadership, diffusion of leadership, process of diffusion & adoption, profile of consumer innovator. Consumer decision making, levels of decision making, CB Model of current trends ethical issues in CB ,	2nd week of November to last week of November	Case studies & Presentation
Revision	Revision, presentation, problem solving	From 1st Dec	…….

Govt. College Hansi

Lesson plan- Unit wise lesson plan for the odd Semester, 2023-24.

Teacher: Surender Kumar **Class: B.COM 1st** **Section:**
Subject: Financial Accounting

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	Financial accounting: meaning, need, objectives & scope; book-keeping and accounting; branches of accounting; GAAP & FASB accounting principles: concepts and conventions; and accounting equation; journal; rules of journalizing;	From 1st week of August to 31st August	1st assignment in the last week of August
Unit 2	Accounting cycle: Classification of accounts, Journal, Rules of debit and credit, Compound journal entry, Ledger, Rules regarding posting, Trial balance, Sub-division of journal.	From 1st week of September to 30th September.	Minor 1st test in the 2nd week of September.
Unit 3	Capital and Revenue: Classification of income, expenditure and receipts, deferred revenue expenditure, Provisions and Reserves: Kinds of provisions and reserves, Difference between provision and reserve. Depreciation Accounting: Concept, causes of depreciation, Need for providing depreciation, factors determining the amount of depreciation, methods of charging and recording depreciation.	From 1 October to 30th October.	2nd assignment in the 3rd week of October.
Unit 4	Accounting for not-for profit organizations: Receipt and Payment Account, Income and Expenditure Account, Receipt and Payment Account versus Income and Expenditure Account Financial statements of profit-making entities: Manufacturing Account, Trading Account, Profit and Loss Account, Balance Sheet, Difference between Profit and Loss Account and Balance Sheet, Adjustments in final accounts.	From 1st November to 30th November	2nd Minor test in the 1st week November.
Revision	Revision, presentation, problem solving	From 1st December & Onwards	…….

Govt. College Hansi

Lesson plan

Unit wise lesson plan for the odd Semester, 2023-24.

Teacher: Surender Kumar **Class: M.com (P)**

Section: --- **Subject: MP &OB**

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	Meaning, Nature and scope of management, Management thoughts, Approaches to management, Scientific process, and Decision theory school, and Quantitative and system school, contingency theory of management, Managerial skills, and Social responsibility of managers.	From 3rd week of August to 2nd week of September.	Group Discussion
Unit 2	Managerial function: Planning-concepts, significance, types, Organizing-concepts principles, types of organization, authority and responsibility, power, delegation. Decentralization, Staffing, directing (Leading ,motivating and communicating) Coordinating, controlling process and techniques	From 3rd week of September to 1st week of October	1st Minor test & 1st Assignment in the 1st week of October.
Unit 3	Organizational Behaviour: Concepts, determinants, challenges and opportunity of OB, contributing disciplines to the OB, Organization culture and climate, Factors affecting of OB, understanding and managing individual behaviour, Personality, Perception, Values, Attitudes and Learning.	From 2nd week October to 1st week of November	2nd assignment & 2nd test in the First week of November
Unit 4	Understanding and managing group behaviour, Interpersonal and group dynamics, Transactional analysis, Application of emotional intelligence in organization, Communication process, models of communication, issues in organizational communication, Organization change, to analyze the major concepts of organizational behaviour in business	From 2nd week of November to last week of November.	

	organizational development, Conflicts management and stress management ,		Presentation & Case studies
Revision	Revision, presentation, problems solution	From 1st Dec & Onwards	…….

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Even Semester 2023-24

Department: COMMERCE

Name of Teacher: Dr.Sushila | Class: BCOM 3rd sem

Subject: BUSINESS STATISTICS -1 | Paper: BC 205

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	1) Introduction of statics : Development 2) Definition 3) Scope and Limitations 4) Collection of data methods 5) Methods of collecting primary data 6) Classification – Functions 7) Rules and bases of classification 8) Frequency distributions and its types 9) Tabulation- meaning , types , parts of requisties of good table 10) Presentation through diagrams –general rules 11) Types and choice of diagram 12) Graphic presentations –general rules for graphing 13) Graphs of frequency distributions and histograms	24 July 2023 to 16 Aug.2023	1st assignment in the 2nd Week of August
Unit-2	14) Concept and measures of central tendency: Mathematical averages 15) Positional average and partition values 16) Measures of dispersion in detail: Absolute and relative measures of dispersion – Range 17) Quartile deviation 18) Mean deviation 19) Standard deviation 20) Variance	17 Aug. 2023 to 10 Sep. 2023	Minor Test in the 1st Week of September

Unit-3	21) Moments and Measures of Skewness – Karl Persons's 22) Bowley's and Kelly's coefficient of skewness 23) Coefficent of skewness based on moments 24) Moments about mean 25) Sheppard correction for grouping errors in moments 26) Kurtosis	11 Sep. 2023 to 5 Oct. 2023	2nd Assignment in the Last Week of September
Unit-4	27) Correlation – Types 28) Methods – Scatter diagram method 29) Karl Pearson's coefficient of correlation 30) Standard error of estimate 31) Co-efficient of determination 32) Regression – Linear and non linear 33) Lines of regression 34) Coefficients of regression 35) Correlation vs. regression analysis	6 October 2023 to 7 Nov. 2023	

Revision		17 November 2023 to till exam	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Even Semester 2023-24

Department: COMMERCE

Name of Teacher: Dr. Sushila Class: M.Com 3rd sem

Subject: Leadership Dynamics Paper: M CH 334

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	1) Leadership Dynamics: Concept 2) Leadership and Management 3) Leadership and Power 4) Successfully Leadership versus Effective Leadership	24 July 2023 to 16 Aug 2023	1st Assignment in the 2nd week of August
Unit-2	5) Leadership Approaches: Trait Approach 6) Skills Approach 7) Behavioral Approach 8) Situational Approach 9) Contingency Approach 10) Path Goal Approach	17 Aug 2023 to 10 Sep 2023	Minor Test in the 1st Week of September
Unit-3	11)Leadership Styles: Autocratic 12) Democratic 13) Participative 14) Supportive 15) Free - rein : Comparative Analysis of Leadership Styles 16) Building Effective Leadership Styles 17) Leadership Styles of Famous Personalities in general perspective and in managerial perspective	11 Sep 2023 to 5 Oct 2023	2nd Assignment in Last Week of September

Unit-4	18) Contemporary Issues in Leadership: Charismatic Leadership 19) Women Leadership 20) Multicultural Leadership 21) Team Leadership 22) Ethics in Leadership 23) Servant Leadership 24) Transactional and Transformational leadership.	6 October 2023 to 7 Nov 2023	
Revision		17 November 2023 to till exam	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Even Semester 2023-24

Department: Commerce

Name of Teacher: Dr. Sushila Class: M.Com 1st sem

Subject: Business Statistics Paper:

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	1) Univariate analysis: central tendency 2) Dispersion(theoretical concept):Probability: Introduction 3) Addition Theorem 4) Multiplication Theorem 5) Conditional Probabilty 6) Bayes Theorem 7) Theoretical probability distributions: Binomial , Poission 8) Normal Distribution: their characteristics and applications	16 Aug.2023	1st assignment in the 2nd week of August
Unit-2	9) Sampling: Probability and non probability sampling methods: Sampling distribution and its characteristics: Hypothesis testing : hypothesis formulations 10) Testing: Statistical Tests: z-test 11) t-test 12) f-test 13) Analysis of variance 14) Chi-square test 15) Wilcoxon Signed-Rank test 16) Kruskal-Wallis test	17Aug.2023 to 10 Sep.2023	Minor Test in the 1st Week of September
Unit-3	17) Correlation analysis: simple 18) Partial and multiple correlations: Regression analysis: simple linear regression model 19) Ordinary least square method	11 Sep. 2023 to 5 Oct.2023	2nd Assignment in the Last Week of September

	20) Time series analysis: components of a time series and their measurements and uses		
Unit-4	21) Index numbers: meaning and types 22) Methods for measuring indices 23) Adequacy of indices: Statistical quality control: causes of variation in quality 24) Control Charts 25) Acceptance sampling.	6 Oct. 2023 to 7 Nov. 2023	Minor test
Revision		17 November 2023 to till exam	

CLASS:B.Com.-II Year (III Sem)(2023-24) NAME OF PAPER –Business Laws

PAPER CODE – BCOM 303

Teacher name- Mr.Vijay Kaliraman

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week	Indian Contract Act: Meaning and essentials of a valid contract; offer and acceptance; consideration; capacity to contract; consent and free consent;
		2nd week	consideration;; performance of contracts; different mode of discharge of contract
		3rd week	void agreements; quasi contracts
		4th week	Remedies for breach of contract and Assignment I
2.	September	1st week	Contracts of Indemnity
		2nd week	Contracts of Indemnity and Guarantee;
		3rd week	bailment and pledge
		4th week	contract of agency. Unit test
3.	October	1st week	Sale of Goods Act– Definition and essential of a contract of sale
		2nd week	Conditions and warrantees, transfer of property
		3rd week	Performance of contract of sale; right of unpaid sailor;
		4th week	Remedies for breach of contract Assignment II
4.	November	1st week	Negotiable Instrument Act – Meaning and essential elements of a negotiable instruments; types of negotiable instrument; holder and holder in due course; negotiation of negotiable instruments; dishonor of negotiable instruments.
		2nd week	
		3rd week	Meaning and scope of Information Technology Act; digital signature; electronic governance; regulation of certifying authority; digital signature certificates;
		4th week	

			duties of subscribers; penalties adjudication and offences.
			Revision
			Revision

CLASS:M.Com.-II Year (III Sem)(2023-24) NAME OF PAPER – Business Legislation

PAPER CODE – MC302

Teacher name- Mr.Vijay Kaliraman

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week	Indian Contract Act: Meaning and essentials of a valid contract; offer and acceptance; consideration; capacity to contract; consent and free consent;
		2nd week	consideration;; performance of contracts; different mode of discharge of contract
		3rd week	void agreements; quasi contracts
		4th week	Remedies for breach of contract and Assignment I
2.	September	1st week	Sale of Goods Act– Definition and essential of a contract of sale
		2nd week	Conditions and warrantees, transfer of property
		3rd week	Performance of contract of sale; right of unpaid sailor;
		4th week	Remedies for breach of contract Assignment II
3.	October	1st week	The Companies Act, 2013; Meaning and Characteristics of a Company; Objects and Applications of Companies Act, 2013; Landmark provisions of new Companies Act, 2013; Classification of companies, Concept of One Person Company
		2nd week	
		3rd week	Formation of a company, Memorandum and Articles of association and unit test
		4th week	Prospectus, Allotment of shares and share capital, Membership in companies
			Meetings of Companies: General principles of meetings, Types of meetings; Prevention of Oppression and Mismanagement; Winding up of a Company
4.	November	1st week	Consumer Protection Act: Define consumer rights, provisions regarding complaints in consumer courts, Unfair Trade Practices and Restrictive Trade Practices, Consumer

		2nd week	Protection Council, Consumer foru
		3rd week	Negotiable Instrument Act – Meaning and essential elements of a negotiable instruments; types of negotiable instrument; holder and holder in due course; negotiation of negotiable instruments; dishonor of negotiable instrument
		4th week	Revision
			Revision

CLASS:B.Com.-III Year (III Sem)(2023-24) NAME OF PAPER – **Banking Law and Practice**

PAPER CODE – BCOM 503
Teacher name- Mr.Vijay Kaliraman

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week	Origin and Evolution of banks - Meaning and definition of banking
		2nd week	Structure of Indian Banking System - Classifications of banks; Functions of commercial banks;
		3rd week	Regulatory Framework and Compliances - Banking Regulation Act 1949.
		4th week	Prevention of Money Laundering Act, 2002. And Assignment I
2.	September	1st week	Banker and Customer relationship; their mutual rights and duties - lien - Power to combine different accounts.
		2nd week	Secrecy of account; Different Types of Accounts; Cheques requisite of valid cheque.
		3rd week	Crossing of cheques; Meaning and types of Endorsement. Unit Test
		4th week	Types of securities and precautions taken for banker's
3.	October	1st week	advances and loans Guarantees, pledge, lien, mortgage, charge - subject matters of collateral security
		2nd week	Factoring; Bill Discounting and Assignment II
		3rd week	Bank Guarantees; Letters of Credit
		4th week	Contemporary and Emerging issues in Banking- Problem of NPAs
4.	November	1st week	Capital adequacy norms; Banking Ombudsman Scheme; Technology driven developments;
		2nd week	Ethics and Corporate Governance in Banks.

		3rd week	Revision
		4th week	Revision

CLASS:B.Com.-III Year (III Sem)(2023-24) NAME OF PAPER – Indian Financial System

PAPER CODE – BCOM 305

Teacher name- Mr.Vijay Kaliraman

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week	Introduction: nature and role of financial system;
		2nd week	Financial system and economic development; An overview of Indian financial system.
		3rd week	Components of financial system: Financial markets and financial instruments:
		4th week	money and capital markets: Money market: meaning, constituents instruments and functions
2.	September	1st week	Capital market: primary and secondary market; Depository system and assignment I
		2nd week	Recent developments in Indian capital market; SEBI: its formation, role and recent developments. The Debt Market: meaning, features, participants, instrument
		3rd week	Private, PSUs & Government securities market. Financial institutions: Reserve Bank of India:
		4th week	Reserve Bank of India: organization, management and functions; credit creation and credit control
3.	October	1st week	Commercial banks: meaning and functions, structure and recent developments in commercial banking in India;
		2nd week	E-banking, NPA's in Commercial Banks,
		3rd week	Payment Banks and Unit test
		4th week	Development banks and assignment II
4.	November	1st week	Concept, objectives and functions.
		2nd week	recent developments in development banking
			Revision

		3rd week **4th week**	Revision

Lesson Plan 2023-24

Government College, Hansi

Unit wise Lesson Plan for ODD Semester Aug.-Dec.-2023

Department: Computer Science

Name of Teacher: **Dr. Banta Singh Jangra** Class: **PGDCA (1st Sem.)**

Subject: **Introduction to Information Technology** Paper: **PGDCA-101**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	**Computer Fundamentals:** Introduction to Computers: Characteristics and Limitations of Computers, Evolutions of Computers, Classification of Computers, Computer Languages, Types of software, Structured Programming Concepts. **Basic Computer Organization**: Units of a computer, CPU, ALU, Memory Hierarchy, Registers, I/O devices, Mother Board.	16-Aug-23 To 15-Sept.-23	Assignment-1
Unit-2	**Word Processing:** Introduction to MS-Word, Creating & Editing Text: Paragraph Formatting, Page Formatting, Template, Page, Views, Table; Advanced Features: Bookmark, Mail Merge, Macros.	16-Sept-23 To 15-Oct-23	Test-1
Unit-3	**Spread Sheets:** Introduction to MS-Excel, Creating & Editing Worksheet, and Formatting data, Formulas and Functions, Creating Charts, Pivot Tables. **Power Point Presentations:** Creating, Manipulating & Enhancing Slides, Organizational Charts, Animations & Sounds, Inserting Animated Pictures	16-Oct-23 To 15-Nov-23	Assignment-2
Unit-4	**Internet Basics:** History of Internet, Web Browsers, Web Servers, Hypertext Transfer Protocol, Internet Protocols Addressing, Internet Connection Types, How Internet Works, ISPs, Search Engines, Emails and Its Working, Internet Security, Uses of Internet, Computer Networks and their advantages, Types of Computer Network, Network Topologies, Basics of Transmission Media; Cloud Computing Basics: Overview,	11-Nov-23 To 10-Dec-23	Mock Test

	Applications, Intranets and the Cloud; Benefits, Limitations and Security Concerns.		
Revision	Revision of Syllabus and Students Query Handling with Sample Papers	11-Dec-23 To Exam Date	

Lesson Plan 2023-24

Government College, Hansi

Unit wise Lesson Plan for ODD Semester Aug.-Dec.-2023

Department: Computer Science

Name of Teacher: **Dr. Banta Singh Jangra** Class: **PGDCA (1st Sem.)**

Subject: **Data Base Management System** Paper: **PGDCA-104**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Overview: File Systems vs. DBMS, Characteristics of the Data Base Approach, Database users, Advantages and Disadvantages of a DBMS, Responsibility of Database Administrator. Data Base Systems Concepts and Architecture: Data Models, Schemas and Instances, DBMS architecture and various views of Data, Data Independence, Database languages.	16-Aug-23 To 15-Sept.-23	Assignment-1
Unit-2	Entity Relationship Model: Basic Concepts-Entity, Attributes, Types of Attributes, Entity set and Keys, Relationships-Relationship set, Degree of Relationship, Roles and Structural Constraints, ER Diagrams, Reduction of an E-R Diagram to Tables, Binary Representation and Cardinality, Participation Constraints	16-Sept-23 To 15-Oct-23	Test-1
Unit-3	Relational Data Model:-Brief History, Relational Model Terminology-Relational Data Structure, Database Relations, Properties of Relations, Keys, Domains, Integrity Constraints over Relations, Base Tables and Views	16-Oct-23 To 15-Nov-23	Assignment-2
Unit-4	SQL: Introduction to SQL, Data Types in SQL, Common Commands in SQL- Select, Insert, Update and Delete, views in SQL; Relational Database Design: Functional Dependencies, Decomposition, Desirable properties of decomposition, Normal Forms (1 NF, 2 NF, 3 NF and BCNF).	11-Nov-23 To 10-Dec-23	Mock Test
Revision	Revision of Syllabus and Students Query Handling with Sample Papers	11-Dec-23 To Exam Date	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: Anil Kumar Class: BCA-II

Subject: Object Oriented Programming Using C++ Paper: BCA-PC(L)-231

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Introduction to C++, C++ Standard Library, Basics of a Typical C++ Environment, Header Files and Namespaces, Library files. Introduction to Objects and Object-Oriented Programming, Encapsulation, Access Modifiers; Controlling access to a class, method or variable (public, private, protected, package), Other Modifiers, Polymorphism; overloading, Inheritance, Overriding Methods, Abstract classes, Reusability.	24 July to 05 Sept.	Test
Unit-2	Classes and Data Abstraction: Introduction, Structure Definitions, Accessing Members of Structure, Class Scope and Accessing Class Members, Initializing Class Objects, Constructor, Using Default Arguments with Constructor, Using Destructor, Classes: Const(Constant) Object and Const Member Function, Object as Member of Classes, Friend Function and Friend class, Function Overloading. Operator Overloading: Introduction, Fundamentals of Operator Overloading, Restrictions on Operator Overloading, Operator Functions as Class Members vs. as Friend Function, Overloading, <> Overloading Unary Operators, Overloading Binary Operators.	06 Sept to 30 Sept	Test
Unit-3	Inheritance: Introduction, Inheritance: Base Classes and Derived Classes, Protected Members, Casting Base-Class Pointers to Derived-Class Pointer, Using Member Functions, Overriding Base-class members in a Derived class, Public, Protected, and Private Inheritance, Using Constructors and Destructors in Derived Classes, Implicit Derived-Class Object to Base-Class Object Conversion.	1Oct to 30 Oct	Assignment

Unit-4	**UNIT- IV** Virtual Functions and Polymorphism: Introduction to Virtual Functions, Abstract Base Classes and Concrete Classes, Polymorphism, New Classes and Dynamic Binding, Virtual Destructor, Polymorphism, Dynamic Binding. File and I/O Streams: Files and Streams, Creating a Sequential Access File, Reading Data From A Sequential Access File, Updating Sequential Access File, Random Access File, Creating A Random Access File, Writing Data Randomly to a Random Access File, Reading Data Sequential from a Random Access File.	01 Nov to 25 nov	Assignment Test
Revision		25 Nov to 20 Dec revision	Test

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: Anil Kumar Class: PGDCA

Subject: Operating System Paper: PGDCA-103

Unit	**Description of Chapter / Topics**	**Duration**	**Assignment / Test**
Unit-1	Introductory Concepts: Operating systems functions and characteristics, operating system structure, operating system services, system calls, system programs. Types of Operating system: Batch operating system, Time-sharing operating system, Distributed operating system, Real time systems Process Management: Process concept, Process States, Process Control Block, Cooperating processes.	16 August to 06 September	
Unit-2	Unit II CPU scheduling: Levels of Scheduling, Scheduling criteria, Comparative study of scheduling algorithms, multiple processor scheduling. Concurrent Processes: Critical section problem, Semaphores, Classical process co-ordination problems and their solutions, Monitors, Inter-process Communications.	7September to 5 October	Test
Unit-3	Deadlock: System model, Deadlock characterization, Methods for handling Deadlocks: Deadlock prevention, Deadlock avoidance, Deadlock detection, Recovery from Deadlock. Storage Management: Storage allocation methods: Single contiguous allocation, Multiple contiguous allocation, Paging; Segmentation combination of Paging and Segmentation, Virtual memory concepts, Demand Paging, Page replacement Algorithms, Thrashing.	6 October to 30 October	Assignment

Unit-4	Device and file management: Disk scheduling, Disk structure, Disk management, File Systems: Functions of the system, File access and allocation methods, Directory Systems: Structured Organizations, directory and file protection mechanisms. Case Studies: Comparative study of WINDOW, UNIX, ANDROID & LINUX system.	01 November to 30November	Assignment
Revision		1 December to 20 December	Test

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan Odd Semester **July – December, 2023**
Name of Teacher: **Dr. Anju Jain**
Class: **BCA-II (3rd Sem.)** Subject: **Digital Electronics**
Course code: **BCA-PC (L)-233**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Information Representation: Number Systems, Binary Arithmetic Operations, Fixed-point and Floating point representation of numbers, BCD Codes, Error detecting and correcting codes, Character Representation – ASCII, EBCDIC, Unicode, Binary Logic: Boolean Algebra, Boolean Theorems, Boolean Functions Truth Tables, Canonical and Standard forms of Boolean functions , Simplification of Boolean Functions - Venn Diagram, Karnaugh Maps.	24th July to 31st August , 2023	Assignment-1
Unit-2	Digital Logic: Basic Gates -AND, OR, NOT, Universal Gates - NAND, NOR, Other Gates - XOR, XNOR etc. NAND, NOR, AND-OR-INVERT and OR-AND-INVERT implementations of digital circuits, Combinational Logic – Characteristics, Design Procedures, analysis procedures, Multilevel NAND and NOR circuits.	1st September to 15th September, 2023	Test-1
Unit-3	Combinational Circuits: Half-Adder, Full-Adder, Half-Subtractor, Full-Subtractor, Encoders, Decoders, Multiplexers, Demultiplexers, Comparators, Code Converters BCD to Seven Segment Decoder.	16th September to 15th October, 2023	Test-2
Unit-4	Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK, T type and Master Slave flip-flops. State table, State diagram and State equations. Flip-flop excitation tables.	16th October to 30th October, 2023	Mock Test

Revision	Revision of Syllabus and Students Query Handling	1st November 2023 to Exam Date	Presentation

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan Odd Semester **July – December, 2023**

Name of Teacher: **Dr. Anju Jain**

Class: **BCA-III (5th Sem.)** Subject: **Programming Using Python**

Course code: **BCA-PC (L)-351**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Introduction to Python: History and Features of Python Programming, Python Interpreter. Variable, identifiers and literal. Token, keywords. Data Types. Arithmetic operators, Relational operators, Logical operators, Bitwise operators, Assignment operators, Membership operators, Identity operators. Operator precedence. Comment, Indentation, Need for indentation Built-in Functions: input, eval, composition, print, type, round, min and max, pow. Type Conversion, Random Number Generation. Mathematical Functions. Getting help on a function, Assert Statement	24th July to 31st August , 2023	Assignment-1
Unit-2	Control Statements: if Conditional Statement, for and while Statements. break, continue and pass statements. Functions: Function Definition and Call, Function Arguments-Variable Function Arguments, Default Arguments, Keyword Arguments, Arbitrary Arguments. Command Line Arguments. Global and local Variables. Accessing local variables outside the scope, Using Global and Local variables in same code, Using Global variable and Local variable with same Name.	1st September to 15th September, 2023	Minor Test-1
Unit-3	Strings: String as a compound data type. String operations-Concatenation, Repetition, Membership operation, Slicing operation. String methods-count, find, rfind, capitalize, title, lower, upper, swapcase, islower, isupperistitle, replace, isalpha, isdigit, isalnum. String Processing examples. Lists: List operations-multiplication, concatenation, length, indexing, slicing, min, max, sum, membership operator; List functions-append, extend, remove, pop, count, index, insert, sort, reverse.	16th September to 31st September, 2023	Minor Test-2

Unit-4	Object Oriented Programming: Introduction to Classes, Method, Class object, Instance object, Method object. Class as abstract data type, Date Class. Access attributes using functions-getattr, hasattr, setattr, delattr. Built-In Class Attributes of Class object (__dict__, __doc__ , __name__, module__).	1st October to 15th October, 2023	Quiz
Revision	Revision of Syllabus and Students Query Handling	16th October 2023 to Exam Date	Presentation

Lesson Plan

Government College, Hansi Unit wise Lesson Plan for **Odd Semester 24th July to 20th Nov.. 2023**

Name of Teacher: **Dr. Kapil Kumar**

Class: **BCA-Ist (Ist Sem.)** Subject: **PC- Software**

Paper: **BCA-PC(L) -114 (Theory)**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Operating System, Definition and function, Basic of windows, Basic components of windows, Icons, Taskbar, activating window, desktop, title bar, managing files and folder, copying and moving files and folder, control panel, display properties, setting date and time, screen saver and appearance	25th July to 20th August	Assignment-1
Unit-2	Documentation using MS-Word, Introduction to office automation, creating and editing document. Auto text, auto correct, spelling and grammar checking, Page formatting, bookmark, advance features of MS word, mail Merge, macro, tables, template	21st August. to 21st September.	Test-1
Unit-3	Electronic spreadsheet using MS excel, Introduction to MS-Excel, creating and editing spread sheet, formatting and essential operations, formulas and functions, charts, advances features of MS- Excel, Pivot table, pivot chart, linking and consolidation, sorting, filtering, table, validation	22nd September to 20th October.	Assignment-2
Unit-4	Presentation using MS- Power point, presentation, creating, manipulating and enhancing slides, organizational charts, excel charts, word, art, layering art objects, animation and sounds, inserting animated pictures or accessing through object, inserting recorded sound effects or In-built sound effect.	21st October. to 20th November	Test-2
Revision		21st November. to Exam Date	

Lesson Plan

Government College, Hansi Unit wise Lesson Plan for **Odd Semester 24th July to 20th Nov.. 2023**

Name of Teacher: **Dr. Kapil Kumar**

Class: **BCA-III (Vth Sem.)** Subject: S**oftware Engineering**

Paper: **BCA-PC(L) -353 (Theory)**

Unit	**Description of Chapter / Topics**	**Duration**		**Assignment / Test**
Unit-1	Software Crisis – problem and causes, Software life cycle models: Waterfall, Prototype, Evolutionary and Spiral models. Software Project Planning: Cost estimation: COCOMO model, Project scheduling, project monitoring.	25th July to 20th August		Assignment-1
Unit-2	Software Requirement Analysis and Specifications: Structured Analysis, Data Flow Diagram, Data Dictionaries, Software Requirement and Specifications, Behavioral and non-behavioral requirements. Software Design: Design fundamentals, problem partitioning and abstraction, design methodology, Cohesion & Coupling, Classification of Cohesiveness & Coupling.	21st August. to 21st September.		Test-1
Unit-3	Software Configuration Management, Quality Assurance, Risk Management, Software Maintenance: Type of maintenance, Management of maintenance..	22nd September to 20th October.		Assignment-2
Unit-4	Coding: Programming style, structured programming. Software testing: Testing fundamentals, Functional testing: Boundary Value Analysis, Equivalence class testing, Decision table testing, Cause effect graphing, Software testing strategies:UNIT-testing,integration	21st October. to 20th November		Test-2

	testing, validation testing, System testing, Alpha and Beta testing.			
Revision		21st November. to Exam Date		

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: Naresh Kumar Class: BCA-I

Subject: Computer and Programming Fundamental Paper: BCA-PC (L)-113

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Computer Fundamentals: Definition, Block Diagram along with its components, characteristics and classification of computers, Applications of computer in various fields. Memory: Concept of primary and secondary memory, RAM, ROM, types of ROM, flash memory, Secondary storage devices, Sequential and direct access devices, viz. magnetic tape, magnetic disk, CD, DVD	04August to 10 Sept	Test
Unit-2	Computer hardware & software: I/O Devices, definition of software, relationship b/w hardware and software, types of software. Overview of operating system: Definition, functions of operating system, concept of multiprogramming, multi-tasking, multi-threading, multi-processing, time-sharing, real time, single user & multi-user operating system	11Sept to 30 Sept	Test
Unit-3	Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation. Techniques of problem solving: Flowcharting, algorithm, pseudo code, decision table, Structured programming concepts, Programming methodologies viz. top-down and bottom-up programming.	1Oct to 30 Oct	Assignment
Unit-4	Searching, Sorting & Merging: Linear and binary searching, Bubble, Selection and Insertion sorting. Computer Languages: Analogy with natural language, machine language, assembly language, highlevel language, compiler, interpreter, assembler, characteristics of a good programming language. Computer Virus: Definition, Types of viruses, Characteristics of viruses, anti-virus software.	01 Nov to 30 nov	Assignment Test

Revision		01 Dec to 20 Dec revision	Test

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: Naresh Kumar Class: BCA-III

Subject: Cloud Computing Paper: BCA-PE(L)-353

Unit	**Description of Chapter / Topics**	**Duration**	**Assignment / Test**
Unit-1	Cloud Computing: Introduction to client server computing, Peer to Peer computing, Distributed computing, collaborative computing and cloud computing, Importance of cloud computing in current era, Characteristics, advantages and disadvantages of cloud computing.	24 July to 06 Sept	
Unit-2	Cloud Services: Functioning of cloud computing, Classification of cloud on the basis of services: Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (Iaas): Definition, characteristics and their benefits.	7Sept to 05 Oct	Test
Unit-3	Cloud Architecture: Cloud computing Logical and service architecture, Types of clouds: Private cloud, Public cloud and Hybrid cloud, Comparison of a Private, public and hybrid clouds, Migrating to a cloud, Seven step model to migrate.	6 Oct to 30 Oct	Assignment
Unit-4	Applications: Business opportunities using cloud, Managing Desktop and devices in cloud, cloud as a type of distributed infrastructure, Application of cloud computing for centralizing Email communication, collaboration on schedules, calendars. Overview of major cloud service providers - Amazon Ec2, Google App Engine.	01 Nov to 30Nov	Assignment

Revision		1 Dec to 20 Dec	Test

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: Naresh Kumar Class: BA-I

Subject: Computer and Programming Fundamental Paper: BACS -111

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Computer Fundamentals: Introduction to Computers: Characteristics and Limitations of Computers, Evolution of Computers, Classification of Computers. Computer Languages. Computer Programs, Structured Programming Concepts Basic Computer Organization: Units of a computer, CPU, ALU, Memory Hierarchy, Registers, I/O devices. Mother Board	04August to 10 Sept	Test
Unit-2	Word Processing: Introduction to MS-Word, Creating & Editing: Formatting Document, Page, Table; Bookmark, Mail Merge, Macros. Spread Sheets: Introduction to MS-Excel, Creating & Editing Worksheet, Formatting data, Formulas and Functions, Creating Charts, Pivot Tables. Power Point Presentations: Creating, Manipulating & Enhancing Slides, Organizational Charts, Animations & Sounds, Inserting Animated Pictures.	11Sept to 30 Sept	Test
Unit-3	Operating Systems: Introduction to Operating System: Functions of Operating System, Services; Properties: Batch Processing, Multitasking, Multiprogramming, Interactivity, Distributed environment, Spooling; Types of Operating System: Single user and Multiuser, Batch OS, Multiprogramming OS, Multitasking OS, Real-Time OS, Time-Sharing OS, Distributed OS, Network OS.	1Oct to 30 Oct	Assignment
Unit-4	Internet Basics: History of Internet, Web Browsers, Web Servers, Hypertext Transfer Protocol, Internet Protocols Addressing, Internet Connection Types, How Internet Works, ISPs, Search Engines, Emails and Its Working, Internet Security, Uses of Internet, Computer Networks and their advantages, Types of Computer Network, Network Topologies, Basics of Transmission Media. Cloud Computing Basics:	01 Nov to 30 nov	Assignment Test

	Overview, Applications, Intranets and the Cloud. Benefits, Limitations and Security Concerns. Text/ Referenc		
Revision		01 Dec to 20 Dec revision	Test

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: Naresh Kumar Class: BA-I

Subject: Programming in 'C' Paper: BACS -112

Unit	**Description of Chapter / Topics**	**Duration**	**Assignment / Test**
Unit-1	Introduction to C Programming: History of C, Character Set, Identifiers and Keywords, Constants, Types of C Constants, Rules for Constructing Integer, Real and character Constants, Variables, Data Types, rules for constructing variables. Input/output: Unformatted & formatted I/O function, Input functions: scanf(), getch(), getche(), getchar(), gets(); output functions: printf(), putch(), putchar(), puts(). Operators and Expressions: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators, Type Conversion in Assignments, Hierarchy of Operations, Structure of a C program.	04August to 10 Sept	Test
Unit-2	Decision Control Structure: Decision making Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE-IF ladder. Loop Control Structure: While and do-while, for loop and Nested for loop, Case Control Structure: Decision using switch; goto, break and continue statements. Functions: Library functions and user defined functions, Global and Local variables, Function Declaration, Calling and definition of	11Sept to 30 Sept	Test

	function, Methods of parameter passing to functions, recursion, Storage Classes in C.		
Unit-3	Arrays: Introduction, Array declaration, Accessing values in an array, Initializing values in an array, Single and Two Dimensional Arrays, Initializing a 2-Dimensional Array, Passing array elements to a function: Call by value and call by reference, Arrays of characters, Insertion and deletion operations, Searching the elements in an array, Using matrices in arrays, Passing an Entire Array to a Function. Pointers: Pointer declaration, Address operator "&", Indirection operator "*", Pointer and arrays, Pointers and 2-Dimensional Arrays, Pointer to an Array, Passing 2-D array to a Function, Array of Pointers. Dynamic Memory Allocation: malloc(), calloc(), realloc(), free() functions.	1Oct to 30 Oct	Assignment
Unit-4	String Manipulation in C: Declaring and Initializing string variables, Reading and writing strings, String Handling functions (strlen(), strcpy(), strcmp(), strcat(), strrev()). Structures and Unions: Declaration of structures, Structure Initialization, Accessing structure members, Arrays of structure, Nested structures, Structure with pointers, Union. Files in C: Introduction, Opening and Closing files, Basic I/O operation on files.	01 Nov to 30 nov	Assignment Test
Revision		01 Dec to 20 Dec revision	Test

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: **Dr. Suman Malik** Class: **BCA I (1st Sem.)**

Subject: **Problem Solving Through C** **Paper: BCA-PC(L)-115**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Overview of C: History of C, Importance of C, Structure of a C Program. Elements of C: C character set, identifiers and keywords, Data types, Constants and Variables, Assignment statement, Symbolic constant. Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators. Arithmetic expressions, evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity.	21ST July, 2023 To 20th August, 2023	Oral Test
Unit-2	Decision making & looping: Decision making with IF statement, IF-ELSE statements, Nested if statement, ELSE-IF ladder, switch statement, goto statement, while, and do-while loop, jumps in loops, break, continue statement. Functions: Definition, prototype, passing parameters, recursion.	21st August, 2023 to 20th September, 2023	Assignment-1
Unit-3	Arrays in 'C': Definition, types, initialization, processing an array, passing arrays to functions, Strings & arrays. Declaration and initialization of string, String I/O, Array of strings, String manipulation functions: String length, copy, compare, concatenate, search for a sub-string.	21st September, 2023 to 20th October, 2023	Test

Unit-4	Storage classes in C: auto, extern, register and static storage class, their scope, storage & lifetime. Pointers: Introduction, Pointer variables, Pointer operators, Pointer assignment, Pointer conversions, Pointer arithmetic, Pointer comparison, Pointers and arrays, Pointers and functions, Pointers and strings, dynamic allocation using pointers.	21st October, 2023 to 9th November, 2023	Assignment-2
Revision	Revision of Syllabus and Students Query Handling	10th November, 2023 to Exam Date	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: **Dr. Suman Malik** Class: PGD**CA (1st Sem.)**

Subject: **Web Technologies** **Paper:** PGD**CA-105**

Unit	**Description of Chapter / Topics**	**Duration**	**Assignment / Test**
Unit-1	Introduction to Internet, World Wide Web, Evaluation and History of WWW, Basic features, Web Browsers, Web servers, Hypertext transfer Protocol, URLs, Searching and Web Casting techniques, Search Engines and Search tools	16th August, 2023 to 5th September, 2023	Mock Test
Unit-2	Web publishing, Hosting your site, Internet Service Provider, Planning and designing web site, Steps for developing your site, Choosing the contents home page, Domain name, Creating a website, Website and its categories.	6th Sept., 2023 to 30th Sept., 2023	Assignment-1
Unit-3	Web Development: Introduction to HTML, Hypertext and HTML, HTML document features, HTML document Structures, HTML command tag, Creating Links, Header, Text styles, Text Structuring, Text colour and Background, Formatting Text, Page Layout.	1st October, 2023 To 20th October, 2023	Test-1

Unit-4	Images: Ordered and unordered List, Inserting Graphics, Images as hyperlink, Table creation and layout, frame creation and layout, working with forms and menus, working with radio button, check box and text box	21st October, 2023 To 9th November, 2023	Assignment-2
Revision		10th November, 2023 to Exam Date	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: Priyanka Class: BCA-II

Subject: Advanced Data Structures Paper: BCA-PC(L)-235

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Tree: Introduction, Definition, Representing Binary tree in memory, Traversing binary trees, Traversal algorithm using stacks, Header nodes, Threads, Binary search trees- Searching, Insertion and Deletion	24th July to 20th August , 2023	Assignment-1
Unit-2	AVL search trees: Introduction, Insertion and Deletion, m-way search tree: searching, insertion and deletion, B-tree: Insertion and deletion. Hashing: Introduction, Collision resolution.	21st August to 15th September, 2023	Minor Test-1
Unit-3	Graphs: Introduction, Graph theory terminology, Sequential and linked representation of graphs, Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path, Operations on graphs, Traversal of graph.	16th September to 3rd October, 2023	Assignment-2
Unit-4	Sorting: Internal & external sorting, Radix sort, Quick sort, Heap sort, Merge sort, Comparison of various sorting and searching algorithms on the basis of their complexity.	4th October to 26th October, 2023	Minor Test-2 Quiz
Revision	Revision of Syllabus and Students Query Handling	27th October 2023 to Exam Date	Presentation

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Computer Science

Name of Teacher: Priyanka Class: BCA-II

Subject: Web Designing Paper: BCA-PC(L)-232

Unit	**Description of Chapter / Topics**	**Duration**	**Assignment / Test**
Unit-1	Introduction to Internet and World Wide Web; Evolution and History of Word Wide Web; Basic features; Web Browsers; Web servers; Hypertext Transfer Protocol; URLs; Searching and Web-Casting Techniques; Search Engines and Search Tools.	24th July to 20th August , 2023	Assignment-1
Unit-2	Web Publishing: Hosting your Site; Internet Services provider; Planning and designing your Web Site; Steps for developing Your site; Choosing the contents; Home page; Domain Names.	21st August to 15th September, 2023	Test-1
Unit-3	Web Development: Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML command Tags; Creating Links; Headers; Text styles; Text Structuring; Text colors and Background; Formatting text; Page layouts.	16th September to 3rd October, 2023	Assignment-2
Unit-4	Images; Ordered and Unordered lists; Inserting Graphics; Table Creation and Layouts; Frame Creation and layouts; Working with Forms and menus; Working with Radio buttons; Checks Boxes; Text Boxes.	4th October to 26th October, 2023	Test-2 Quiz
Revision	Revision of Syllabus and Students Query Handling	27th October 2023 to Exam Date	Presentation

Subject:DBMS Paper: BACS-201**Unit**	**Description of Chapter / Topics**	**Duration**	**Assignment / Test**
Unit-1	Basic Concepts: A Historical perspective, File Systems vs. DBMS, Characteristics of the Data Base Approach, Abstraction and Data Integration, Database users, Advantages and Disadvantages of DBMS, DBMS architecture, Data Models, Schemas and Instances, Data Independence	25 July To 14 Aug.	
Unit-2	Entity Relationship (ER) Model: Basic Concepts-Entity, Attributes, Types of Attributes, Entity set and Keys; Relationships-Relationship set, Degree of Relationship, Mapping Cardinalities. ER diagram representation-Representation of Entity, Attributes and Relationship. Binary Representation and Cardinality, Participation Constraints.	16 Aug. to 28 Aug.	
Unit-3	Relational Model : Relational model concepts (Tables, Tuple, Relation instance, Relation schema, Relation key, Attribute domain), Constraints- Key constraints, Domain constraints, Referential integrity constraints;Relational algebra, Basic operations: Select,Project,Union,Set differennce,Cartesian product,Rename.	29 Aug. To 11 Sept.	Assignment
Unit-4	Relational Database design: Mapping ER model to relational database, functional dependencies, Lossless decomposition, Desirable properties of decomposition, Normal forms (1 NF, 2 NF, 3 NF and BCNF). SQL: Why SQL, Data Types; DDL-Create, Alter and Drop table Commands. DML-SELECT/ FROM/ WHERE, INSERT INTO/ VALUES, UPDATE /SET/ WHERE,	12 Sept.to 25 Sept.	Test

	DELETE Commands. UNION [ALL], INTERSECTION and MINUS Operators.		
Revision			

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Computer science

Name of Teacher: Sat kumar Class: B.A-II

Subject:Operating System Paper: BACS-202

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Structure of Operating Systems: Layers-MS-DOS Layer Structure, Traditional UNIX System Structure; Running Multiple Operating Systems, Running a Virtual Operating System, Operating System Modes, System Boot. Process Management: Introduction to Process, Attributes of a process, Process States, Operations on the Process, Process Schedulers, CPU Scheduling, Scheduling Algorithms, Purpose of a Scheduling algorithms, Introduction to FCFS, Shortest Job First (SJF), Shortest Job First (SJF),Round Robin Scheduling Algorithms.	26 Sept To 9 Oct..	
Unit-2	Memory Management: Fixed and Dynamic partition, Physical and Logical Address Space, Page Table, Mapping from page table to main memory, Page Table Entry, Size of the page table, Finding Optimal Page Size. Virtual Memory Concepts, Advantages and disadvantage of Virtual Memory. Segmentation, Translation of Logical address into physical address by segment table, Advantages and disadvantage of Segmentation. Paging VS Segmentation	10 Oct. to 23 Oct	Assignment
Unit-3	File Management: Attributes of File, Operations on File; File Access Methods-Sequential, Direct and Indexed Access; Directory Structure, File Systems, File System Structure-different layers; Master Boot Record, Directory Implementation-Linear List and Hash Table; Disk space Allocation MethodsContiguous Allocation and FAT.	25 Oct.to 10 Nov.	Test

Unit-4	Shell introduction and Shell Scripting: What is shell and various type of shell, Various editors present in Linux/Unix; Different modes of operation in vi editor; Shell script, Writing and executing the shell script, Shell variable (user defined and system variables); System calls, Pipes and Filters, Decision making in Shell Scripts (If else, switch), Loops in shell, Utility programs (cut, paste, join, tr , uniq utilities), Pattern matching utility (grep)	17 Nov.to Till exam.	
Revision			

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Computer science

Name of Teacher: Sat kumar Class: BCA-III

Subject:DWDM Paper: BCA(PC)L-354

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Data Mining: Introduction, Kind of data to be mined, Data Mining Functionalities, Technologies used in Data Mining, Applications of data Mining, Major Issues in Data Mining.	25 July to 18 August	
Unit-2	Data Pre-Processing: Introduction, Need of preprocessing, Data Objects and Attribute type, Statistical description of data, Data Visualization, Measuring similarity and dissimilarity of data, Data Cleaning, Data Integration, Data Reduction, Data Transformation and Data Discretization	19 Aug. to 11 Sept.	Assignment-1
Unit-3	Data Warehouse: Introduction, Data Warehouse and Database Systems, Data Warehouse Architecture, Data Warehouse Models, Data Cube and OLAP, Multidimensional data Model, Concept Hierarchies, OLAP operations, Data Warehouse Implementation	12 Sept to 3 Oct.	Test
Unit-4	Mining Frequent Patterns, Associations and Correlations: Introduction, Frequent Itemset Mining using Apriori Algorithm ,Generating Association Rule from Frequent Itemsets. Improving efficiency of Apriori, Pattern Growth Approach for Mining Frequent Itemsets, Pattern evaluation Methods.	4 Oct.to 30 Oct.	Assignment-2
Revision		November	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Even Semester 2023-24

Department: Computer Science

Name of Teacher: Sushil Kumar Class: BCA –III rd

Subject:COMPUTER GRAPHICS Paper: **BCA-PC(L)-352**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Graphics Primitives: Introduction to computer graphics, Basics of Graphics systems, Application areas of Computer Graphics, overview of graphics systems, video-display devices, and raster-scan systems, random scan systems, graphics monitors and workstations and input devices. Output Primitives: Points and lines, line drawing algorithms, mid-point circle and ellipse algorithms. Filled area primitives: Scan line polygon fill algorithm, boundary fill and floodfillalgorithms .	27/07/2023-10/09/2023	
Unit-2	2-D Geometrical Transforms: Translation, scaling, rotation, reflection and shear transformations, matrix representations and homogeneous coordinates, composite transforms, transformations between coordinate systems. 2-D Viewing: The viewing pipeline, viewing coordinate reference frame, window to viewport coordinate transformation, viewing functions, Cohen-Sutherland and Cyrus-beck line clipping algorithms, Sutherland –Hodgeman polygon clipping algorithm.	11/09/2023-28/09/2023	
Unit-3	3-D Object Representation: Polygon surfaces, quadric surfaces, spline representation, Hermite curve, Bezier curve and B-Spline curves, Bezier and B-Spline surfaces. Basic illumination models, polygonrendering m	03/10/2023-21/10/2023	
Unit-4	3-D Geometric Transformations: Translation, rotation, scaling, reflection and shear transformations, composite transformations. 3-D Viewing: Viewing pipeline, viewing coordinates,	22/10/2023-10/11/2023	

	view volume and general projection transforms and clipping..		
Revision			

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Even Semester 2023-24

Department: Computer Science

Name of Teacher: Sushil Kumar Class: BA 5th sem

Subject: **Object Oriented Programming Using 'C++'** Paper: **BACS- 311**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Procedure Oriented Programming, Object-Oriented programming Paradigm, difference between Procedure Oriented Programming and Object-Oriented programming, Basic concepts of Object-Oriented programming, Benefits of OOP, Object Oriented Languages, and application of OOP. Structure of a C++ Program, Insertion operator, Extraction operator, Hierarchy of Console Stream Classes, Unformatted and Formatted I/O Operations, Manipulators, inline functions.	27/07/2023-10/08/2023	
Unit-2	C structure revisited, specifying a Class, Creating Objects, Defining member function, Memory allocation for objects, Scope resolution operator and its significance, Static Data Members, Static member functions, Friend Function, Friend Class.	11/08/2023-21/08/2023	
Unit-3	Dynamic Memory Management using new and delete Operator , Constructor, type of constructors,	22/08/2023-02/09/2023	

	Dynamic initialization of objects, Constructor overloading, Constructor with default arguments, Destructors, function overloading, Operator Overloading, Overloading unary and binary operators.		
Unit-4	Inheritance, Single Inheritance, Making a private member inheritable, Multilevel Inheritance, Multiple Inheritance, Hierarchical Inheritance, Hybrid Inheritance, Virtual Base Class. Abstract Classes, Constructors in derived classes.	02/09/2023-29/09/2023	
Revision			

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Even Semester 2023-24

Department: Computer Science

Name of Teacher: Sushil Kumar Class: BA 5th sem

Subject: **DATA ANALYTICS'** Paper: **BACS- 312**

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	**Data Analytics:** Introduction to Data Analytics, Business Intelligence (BI) for better decisions, Decision types, BI tools, BI skills, BI applications. **Data warehousing:** Introduction to Data warehousing (DW), Design considerations for DW, DW development approaches, DW architecture. **Data Mining:** Introduction to Data mining, Data cleaning and preparation, outputs of Data mining, evaluation of data mining results, Data Mining Techniques.	29/09/2023-10/10/2023	
Unit-2	**Decision Trees:** Introduction to Decision tree, Decision tree problem, Decision tree construction, Lessons from constructing trees, Decision tree algorithms. **Regression:** Introduction, Correlations and Relationships, Visual Look at Relationships, Logistic regression, Advantages and disadvantages of regression models.	11/10/2023-17/10/2023	

	Artificial Neural Networks: Introduction, business applications of ANN, Design principles of an ANN, Representation of a neural network, Architecting a neural network, Developing an ANN, Advantages and disadvantages of using ANN		
Unit-3	**Cluster analysis:** Introduction, Applications of cluster analysis, Definition of a cluster, Representing clusters, Clustering techniques, K-means algorithm for clustering, Selecting the number of clusters. Association rule Mining: Introduction, Business applications of association rules, Representing association rules, Algorithms for association rule, Apriori algorithm, Creating association rules. **Web Mining:** Introduction, Web content mining, Web structure mining, Web usage mining, Web mining algorithms.	18/10/2023- 25/10/2023	
Unit-4	**Naive-base analysis:** Introduction, Probability, Naïve base model, Text classification example. Support vector machines: Introduction, SVM model, The kernel method, Big data: Introduction, Defining big data, Big data landscape, Business implications of big data, Technology implications of big data, Big data technologies, Management of big data.	26/10/2023 05/11/2023	
Revision			

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for odd Semester 2022-23

Department: Computer Science

Name of Teacher: Uma Sharma Class: PGDCA

Subject: Programming in C Paper: PGDCA102

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Un	Programming process: Problem definition, Algorithm development, Flowchart, Program Coding, compilation, debugging,testing and execution, Types of errors. C Programming Fundamentals: Identifiers and keywords, Structure of C Program data types, input and output, type conversion.	24th August to 14th September 2023	Assignment-1
Unit-2	Operators &Expressions: Arithmetic, unary, logical and relational operators, assignment operator, Bit-wise, conditional operator, library functions. Control statements: Decision making using if, if-else, Nested IF,Else If Ladder switch, break, continue statement and goto Statement, looping using for, while and do-while statements, nested loops.	15th September to 9th October, 2023	Minor Test-1
Unit-3	Functions: Library functions, Defining & accessing User defined functions, function prototype and passing arguments to a function, recursion versus iteration. Macro vs function. Arrays: Definition, accessing elements, initialization, passing to functions, multi-dimensional arrays, Strings & operations of Strings, String Handling through Built-in and User Defined Functions. Pointers declaration, assignment, Pointer Arithmetic,passing pointer to functions, pointer arrays,Dynamic Memory Allocation.	10th October to 25th October, 2023	Minor Test-2
Unit-4	Structure and Union: Defining and Initializing Structure, accessing members, nested structures,	26th October	Quiz

	pointer to structures, self-referential structures, Unions: Introduction to Unions and its Utilities. File Handling and Storage classes: automatic, register, external and static variables; Opening and Closing file in C,Modes of File,Reading and Writing data to a file.	to 22th November, 2023	
Revision	Revision of Syllabus and Students Query Handling	23th November 2022 to exam date	Presentation

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for odd Semester 2023-24

Department: Computer Science

Name of Teacher: Uma Sharma Class: BCA

Subject: DBMS Paper: BCA-PC(L)-234

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit 1	Basic Concepts- Data, Information, Records and Files. Traditional file –based System- File based Approach-Limitations of File based Approach, Database Approach- Characteristics of File based Approach, Database Management System(DBMS), Components of DBMS Environment, DBMS Functions and Components, Advantages and Disadvantages of DBMS.	27th August to 15th September , 2023	Assignment-1
Unit 2	Roles In the Database Environment – Data and Database Administrator, Database Designers, Applications Developers and Users. Database System Architecture – Three Levels ofArchitecture, External, Conceptual and Internal Levels, Schemas, Mappings and Instances. Data Independence – Logical and Physical data Independence.	16th September to 30st September, 2023	Test-1
Unit 3	Classification of Database Management System, centralized and Client Server Architecture to DBMS. Data Models: Records-based data Models, Object-based Data models, Physical Data Models and Conceptual Modeling.	1st October to 21st October, 2023	Test-2

Un	Entity-Relationship model – Entity Types, Entity Sets, Attributes relationship Types, Relationship Instances and ER Diagrams. Basic Concepts of Hierarchical and Network Data Model.	22nd October to 8 November 2023	Mock Test
Revision	Revision of Syllabus and Students Query Handling	8th November 2023 to Exam Date	Presentation

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-2024

Name of Teacher: **Bhateri** Class: **B.A. 5th Semester**

Subject: **Economics of Development** Paper: **Theory**

Unit	Description of Chapter/Topic	Duration	Assignment/Test
Unit 1	Economic Growth and Development, Development and underdevelopment Economic, Factors affecting economic growth	4th week of July to 2nd week of August	Verbal Test
Unit 2	Poverty, Human Development Index, Population Problem and growth pattern of population in developing countries.	2nd week of to August 1st week of September	1st Assignment in 4th week of August
Unit 3	Traditional Measurement of Economics Development- National Income, Per Capita Income, UNDP, Classical theory of Development	2nd week of September to 2nd week of Oct	Class test of 3rd week
Unit 4	Steady State Growth Models - Harrod Domer, Neo Classical Model of Growth, Cambridge Model of Growth.	3rd week of Oct 1st week of Nov	2nd Assignment in the 4th week of Oct
Revision	Revision, problem solving	2nd week of November to 4th week of Nov	

Head of the Department (Economics)

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department Of Economics

Name of Teacher: Ms. Bhateri Class: B.A 1st semester

Subject: Economics Paper: Principal Of Microeconomics

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Nature and, scope of economics, the economics problem scarcity and choice, economics system: Characteristics and Function, Demand and Supply and market Equilibrium, Applications of Demand and Supply, Elasticity of Demand	1st week of August to 4th week of August	Verbal Test
Unit-2	Utility Analysis and Consumers Equilibrium, Indifference Curves Analysis and Consumers Equilibrium	1st week of Sept to 3rd Week of September	1st Assignment in 1st week of Sept

Unit-3	Production Function and law of production, Isoquants and isocost Lines: producer Equilibrium, Elasticity of Supply	4th week of Sept to 3rd week Oct.	Class test in the 1st week of Sept
Unit-4	Theory of cost, Concepts of Revenue, break even Points and its uses	4th week of Oct to 2nd week of November	2nd Assignement in the last week of Oct.
Revision	Revision and problem solving	3rd week of Nov to 4th week of Nov.	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department of Economics

Name of Teacher: Ms Bhateri Class: B.Com 1st semester

Subject: Economics Paper: Microeconomics

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Nature and, scope of economics, Demand and Supply and market Equilibrium, Applications of Demand and Supply, Elasticity of Demand , Concept of Supply and Law of Supply	1st week of August to 4th week August	Verbal Test
Unit-2	Utility Analysis and Consumers Equilibrium, Indifference Curves Analysis and Consumers Equilibrium	1st week of Sept to 3rd September	Assignment in 2nd week of Sept

Unit-3	Production Function and law of production, Isoquants and isocost Lines: producer Equilibrium, Elasticity of Supply,Theory of cost, Concepts of Revenue,	4th week of Sept to 3rd week Oct.	1st test in the 1st week of Oct.
Unit-4	Market:-Price and output determination under Perfect Competition Market, under Monopoly Market and under Monopolistic Competition Market	4th week of Oct to 2nd week of November	2nd test in 1st week of Nov
Revision	Revision and problem solving	3rd and 4th week of Nov	Viva and Presentation

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2022-24

Department of Economics

Name of Teacher: Ms Bhateri Class: B.A 3rd Semester

Subject: Economics Paper: Principal Of Macroeconomics

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Introduction of Macroeconomics, Circular flow of income, National Income :-Concept and measurement	4th week of July to 2nd week of August	--
Unit-2	Consumption Function, Investment Function, Investment Multiplier	3rd week of August. To 1st week of Sept	Class test in 1st week of Sept.
Unit-3	Classical and Keynesian theory of Income, Output and Employment, Say's Law of Market, Principal of Effective Demand	2nd week of Sept to 2nd week of October	Assignment-1st in 2nd week of Sept

Unit-4	Money:function and , Defination and roll, quantity theory of Money, Fisher equation and Cambridge equation, Liquidity theory of keynesian, Banking: Major Function of Commerical Bank and process of credit creation	3rd week of Oct to to 3rd week of Nov	Verbal test and 2 nd assignment
Revision	Revision and problem solve	4th week of November	

Govt. College, Hansi

Lesson Plan

Unit wise Lesson Plan for the Odd Semester 2023-24

Name of Teacher: Dr. Mukesh Kumar

Class: B.A. -1st (1st Semester) Section: E **Subject**: English (Compulsory)

Description/Topic	**Duration**	**Assignment/ Test**
Chapter 1. Speech Sounds 2. Choosing Our Universe 3. Are Dams the Tamples of Modern India?	4th week of July to 2nd week of August	
Chapter 4. The Generation Gap 5. Language and National Identity 6. Wounded Plants 7. Playing the English Gentleman	3rd week of August to 1st week of September	1st Assignment in the 4th week of August
Chapter 8. Great Books Born out of Great Minds 9. The Responsibility of Young Men 10. Bharat Mata	2nd week of September to 4th week of September	Minor test in the 3rd week of September
Integrated Grammar Parts of Speech, Correct uses of Tenses and Common Error	1st week of October to 1st week of November	2nd Assignment in the 2nd week of October
Revision All Chapters and Grammar	2nd week of November to last week of November	

Govt. College, Hansi

Lesson Plan Format

Unit wise Lesson Plan for the Odd Semester 2023-2024

Name of Teacher: Dr. Mukesh Kumar

Class: B.A. 5th Semester Sections: A,C&E **Subject:** English(Compulsory)

Unit/ Chapter	**Duration**	**Assignment/ Test**
Unit 1st, Introduction to the novel 'Kanthapura' Chapter 1st , 2nd , 3rd & 4th Transcription & Primary Stress	1st week of August to 2nd week of August	
Unit 2nd, Chapter 5th, 6th 7th , 8th & 9th Intonation	3rd week of August to 1st week of September	Minor test in the 4th week of August
Unit 3rd, Chapter 10th , 11th, 12th, 13th & 14th Transitional Words/Phrases	2nd week of September to last week of September	1st Assignment in the 3rd week of September
Unit 4th , Chapter 15th , 16th, 17th, 18th & 19th Sentences & Paragraph Writing	1st week of October to 3rd week of October	2nd Assignment in the 2nd week of October
Revision for all the Chapters of the Novel 'Kanthapura' , Phonetics, Grammar & Composition	Last week October to the Commencement of the Exams	

Govt. College, Hansi

Lesson Plan

Unit wise lesson plan for the Odd Semester 2023-2024

Teacher: Dr. Mukesh Kumar **Class : B. A IInd**

Subject: English (Compulsory) **Section: C&D (3rd Semester)**

Unit No.	**Description of Chapters/ Topic**	**Expected Duration**	**Assignment/Test**
Unit 1	Important poetic Forms and Devices Sonnet XVIII Know Then Thyself Non-Finite Verbs: Infinitive and Gerund	1st week of August to 3rd week of August	1stAssignment in the Month of August
Unit 2	Elegy Written in a Country Churchyard The World is Too Much With Us Grammar : Prepositions	Last week of August to 2nd week of September	Minor Test In the Month of September
Unit 3	Ode on a Grecian Urn My Last Duchess When You are Old Grammar : Clauses and its Types	3rd week of September to 1st week of October	2nd Assignment in the month of October
Unit 4	Where the Mind is without Fear The Bangle Sellers Another Women Grammar : Verb Patterns Prefixes and Suffixes Essay Writing	2nd week of October to 1st week of November	
	Revision All Chapters (poems) Grammar & Compositions	2nd week of November to the Commencement of the Exams	

Govt. College, Hansi

Lesson Plan

Unit wise Lesson Plan for the Odd Semester 2023-24

Name of Teacher: Dr. Mukesh Kumar

Class: BA 3rd (5th Semester) **Subject**: **Functional English (Optional)**

Unit	Unit/ Description/Topic	Duration	Assignment/ Test
1.	1 On His Blindness, 2.Elexander Feast, 3.Epistle to Dr.Arbuthnot, 4.Tintern Abbey, 5. Kubla Khan, 6 Ode to the West Wind, 7.Stanzs Written in Dejection, 8. Ode on Grecian Urn	1st week of August to 3rd week of August	1st Assignment in 2nd week of August
2.	9.Ode to a Nightingale, 10.Ulysses, 11. The Lotus Eater , 12 .Tears Idle Tears, 13 My Last Duchess, 14.Rabbi Ben Ezra, 15.The Last Ride Together, 16. The Scholar Gypsy, 17.Dover Beach	4th week of August to 2nd week of September	Minor test in 1st week of September
3.	Business Letters and Faxes: different types of formats, address, Opening and closing Subject, heading, sub-heading, numbering , etc.	3rd week of September to 1st week of October	2nd Assignment in 1st week of October
4.	Scanning letters and faxes for specific information, acquiring familiarity with abbreviations and phrases commonly used in business correspondence	2nd week of October to 3rd week of October	
5.	Writing letters of application with curriculum vitac/ Resume letters of invitation, reply to invitation, Enquiry reference, arrangements announcing forthcoming Events, products, visits,making bookings,and arrangements for conferences trade fairs etc..,complaints and replies to complaints, apologies, thanks	last week of October to 1st week of November	
	Revision Communicative & Writing Skills	2nd week of November to the	

		commencement of the Exams	

Lesson Plan

Unit wise lesson plan for the Odd Semester 2023-2024

Teacher: Dr. Mukesh Kumar **Class : B. Sc. I (Hons) (Mathematics)**

Subject: English (Ist Semester)

Unit No.	**Description of Chapters/ Topic**	**Expected Duration**	**Assignment/Test**
Unit 1	**Syntax** Sentence structure, verb patterns and their usage	Last week of July to 1st week of August	1st Assignment in the month of August
Unit 2	**Phonetics** Basic Concepts- Vowels, Consonants, Phonemes , syllables; Articulation of Speech Sounds- Place and Manner of articulation; Transcription of words and simple sentences using International Phonetic Alphabets	2nd week of August to 4th week of August	
Unit 3	**Comprehension** Listening and Reading Comprehension Note taking,Reviewing and summarising, Interpreting, Paraphrasing and Precis Writing .	1st week of September to 3rd week of September	Minor test in the month of September
Unit 4	**Composition** Descriptive ,Explanatory, Analytical and Argumentative Writing-Description of simple objects like instruments, appliances, places persons, principles, description and explanation of process and operations; analysis and arguments in the form of debate and group discussion	Last week of September to last week of October	**2nd Assignment in the month of October**
	Revision Syntax, Phonetics, Comprehension and **Compositions**	**1st week of November to the Commencement of the Exams**	

GOVERNMENT COLLEGE, HANSILESSON PLAN
2023-24
CLASS: BA (First Semester)
NAME OF TEACHER: DR. HONEY SETHISUBJECT: ENGLISH

UNITS	TIME PERIOD	TOPICS	TESTS AND ASSIGNMENTS	REMARKS
	01AUG-15SEPT.	Chapter-1 Chapter-2 Chapter-3 With Exercise &Grammar	Assignment 1	
	16SEPT.-05OCT.	Chapter-4 Chapter-5 Chapter-6 With Exercise &Grammar	Test	
	06OCT. - 05NOV.	Chapter-7 Chapter-8 Chapter-9 With Exercise &Grammar	Assignment 2	
.	06 NOV.-15NOV. 16NOV.-Till Exam.	Chapter-10 Chapter-11 With Exercise &Grammar		

		Revision		

GOVERNMENT COLLEGE, HANSILESSON PLAN
2023-24
CLASS: BA (Third Semester) NAME OF TEACHER: DR. HONEY SETHI
SUBJECT: ENGLISH

UNITS	TIME PERIOD	TOPICS	TESTS AND ASSIGNMENTS	REMARKS
	01 AUG. - 10 SEPT.	Chapter-1 Important Poetic Forms andDevices Chapter-2 Sonnet XVIII Chapter-3 Know Then Thyself With Exercise &Grammar		
	11 SEPT.-05OCT.	Chapter-4 Elegy Written in a CountryChurchyard Chapter-5 The World is Too Muchwith Us Chapter -6 Ode on a Grecian UrnWith Exercise &Grammar	Assignment 1	

	06 OCT.– 31 OCT.	Chapter-7 My Last Duchess Chapter-8 When You are Old Chapter-9 Where the Mind is withoutFear With Exercise &Grammar	Test	
.	01NOV.-15NOV. 16 NOV-Till Exam.	Chapter-10 The Bangle SellersChapter-11 Another Woman With Exercise &Grammar **Revision**	Assignment 2	

GOVERNMENT COLLEGE, HANSILESSON PLAN
2023-24
CLASS: BA (Fifth Semester)
NAME OF TEACHER: DR. HONEY SETHI SUBJECT: ENGLISH

NOVEL	TIME PERIOD	TOPICS	TESTS AND ASSIGNMENTS	REMARKS
KANTHAPURA	01 AUG- 31 AUG.	In detail : Chapter-1 Chapter-2 Chapter-3 Chapter-4 With Exercise &Grammar		
	01 SEPT.-20SEPT.	In detail : Chapter-5 Chapter-6 Chapter -7 Chapter-8 With Exercise &Grammar	Assignment 1	
	21SEPT.-05 OCT.	In detail : Chapter-9 Chapter-10 Chapter-11 Chapter-12 With Exercise &Grammar	Test	
.	06 OCT.-31 OCT.	In detail : Chapter-13 Chapter-14 Chapter-15	Assignment2	

		Chapter-16 With Exercise &Grammar		

.	01 NOV.- 20 NOV. 20 NOV.- Till Exam.	In detail : Chapter- 17 Chapter- 18 Chapter- 19 With Exercise &Grammar **Revision**		

GOVERNMENT COLLEGE, HANSILESSON PLAN
2023-24
CLASS: BSC (NM) (First Semester) NAME OF TEACHER: DR. HONEY SETHI
SUBJECT: ENGLISH

UNITS	TIME PERIOD	TOPICS	TESTS AND ASSIGNMENTS	REMARKS
	01 AUG. - 10 SEPT.	Poem-1 Poem-2 Poem -3 With Exercise &Grammar		
	11 SEPT.-05OCT.	Poem -4 Poem -5 With Exercise &Grammar	Assignment 1	
	06 OCT.– 31 OCT.	Poem -6 Poem -7 With Exercise &Grammar	Test	
.	01NOV.-15NOV. 16 NOV-Till Exam.	Poem -8 Poem -9 Poem -10 With Exercise &Grammar	Assignment 2	

		Revision		

Government College, Hansi……Unit wise Lesson Plan for the Odd Semester, 2023-24
Name of the Teacher: **Dr. Raj Kumar**
Class: **B.A. 5th Semester** Subject: **Geography** Paper: **Theory**

Unit	Description of Chapters/Topics	Duration	Assignment/Test
Unit 1	Definition, Nature, Scope and Approaches of Economic Geography. Relationship of Economic Geography with Economics and Other Branches of Social Sciences. Main Concept of Economic Geography; Resources Concept and Classification; Resource and Conservation.	3rd Week of July to 1st Week of September	1st Assignment
Unit 2	Factors Affecting Location of Economic Activity with special reference to Agriculture (Von Thunen Theory), Industry (Weber's Theory).	2nd Week of September to 3rd Week of September	Class Test
Unit 3	Subsistence and Commercial Agriculture (Rice, Wheat, Cotton, Sugarcane, Tea, Rubber and Coffee). Manufacturing (Cotton Textile, Iron and Steel), Concept of Manufacturing Regions, Special Economic Zones and Technology Parks.	4th Week of September to 2nd Week of October	
Unit 4	World Transportation: Major Trans-Continental Railways and Sea Routes, Geo-Economic Factors in their Development. WTO and International Trade, Patterns and Trends; Major Trade Blocks; Effect of Globalization on Developing Countries.	3rd Week of October to 2nd Week of November	2nd Assignment
Revision	All Four Units	Up to the commencement of examinations	

Government College, Hansi……Unit wise Lesson Plan for the Odd Semester, 2023-24
Name of the Teacher: **Dr. Raj Kumar**
Class: **B.A. 5th Semester** Subject: **Geography** Paper: **Practical**

Unit	Description of Chapters/Topics	Duration	Assignment/ Test
Unit 1	Principals of Map Design and Layout. Symbolization: Point, Line and Area Symbols. Lettering and Toponomy. Mechanics of Map Construction.	4th Week of July to 2nd Week of August	…..
Unit 2	Distribution Maps: Qualitative Maps	3rd Week of August to 2nd Week of September	….
Unit 3	Distribution Maps: Quantitative Maps	3rd Week of September to 3rd Week of October	….
Unit 4	Prismatic Compass Survey	4th Week of October to 2nd Week of November	…..

Government College, Hansi

Unit wise Lesson Plan for the Odd Semester, 2023-24

Name of the Teacher: Dharmvir

Class: **B.A. 1st Semester** Subject: **Geography** Paper: **Theory**

Unit	Description of Chapters/Topics	Duration	Assignment/Test
Unit 1	India: Location, relief and drainage systems. Climate, soils, natural vegetation and natural disasters in India.	First Week of August to last Week of August	1st Assignment in the 1st week of September
Unit 3	Energy and Mineral Resources - Coal, Petroleum, Solar, Hydroelectricity and Nuclear Energy. Mineral Resources:- Iron Ore, Manganese, Aluminium and Mica	First Week of September to Last Week of September	--------
Unit 4	Industries - Iron and steel, cotton textile, sugar and industrial regions of India with special reference to Haryana. Transport and communication, Modes of transport:- Road, Railway, Water.	1st Week of October to 3rd Week of October	Minor Test in the 1 Week of October
Unit 2	Population: Distribution, Density, Growth and Composition. Production and distribution of crops: Rice, wheat, cotton and sugarcane with special reference to Haryana, Green Revolution.	4th Week of October to 4th week of November	2nd Assignment in the 2nd Week of November
Revision	Revision, presentation, problem solving	Onwards	…….

Government College, Hansi

Unit wise Lesson Plan for the Odd Semester, 2023-24

Name of the Teacher: Dharmvir

Class: **B.A. 1st Semester** Subject: **Geography** Paper: **Practical**

Unit	Description of Chapters/Topics	Duration	Assignment/ Test
Unit 1	Introduction to Cartography	First Week of August to last Week of August	…..
Unit 2	Maps & Their Types	First Week of September to Last Week of September	….
Unit 3	Map Scales- Methods of Representing Scales, Conversion of Statement of Scale into R.F. and Vice Versa	1st Week of October to 3rd Week of October	….
Unit 4	Plain Scales, Comparative Scales, Time Scales, Diagonal Scales; Measurement of Distances and Area on Maps & Enlargement and Reduction of Maps	4th Week of October to 4th week of November	…..
Revision	Revision, presentation, problem solving	Onwards	…….

Government College, Hansi

Unit wise Lesson Plan for the Odd Semester, 2023-24

Name of the Teacher: Dharmvir

Class: **BCA** Subject: **Geography** Paper: **Environmental Studies**

Unit	Description of chapters/topics	Duration	Assignment/Test
Unit 1	Multidisciplinary nature of environmental studies: Definition, scope and importance, need for public awareness, Concept, structure and function of ecosystem: producers, consumers and decomposers, Energy flow in the ecosystem Ecological succession, Food chains, Food webs and ecological pyramids, Introduction, characteristics, features, structure and function of different ecosystem such as forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystem. Biodiversity: Introduction, Definition: genetic spices and ecosystem diversity, bio-geographical classification of India, Ecosystem & biodiversity services: ecological, economic, social, consumptive use, productive use, social ethical, aesthetic and options values ,Biodiversity at global, national and local level, India as a mega diversity nation Global Hot spot of biodiversity, threats to biodiversity, habit loss, poaching of wildlife, man wildlife conflicts, Biological invasions, Endangered and endemic spices of India, Conservation of biodiversity: In-situ and ex-situ conservation of biodiversity	First Week of August to last Week of August	1st assignment in the beginning of first week of January
Unit 2	Renewable and renewable resources, Natural resources and associated problems, Forest resources: Use and over exploitation, deforestation, case studies, Timber extraction, mining dams and their effects on forest and tribal people, Water resources , use and over utilization of surface and ground water, floods, droughts conflicts over water dams benefits and problems, Mineral resources, Use and exploitation, environmental effects of extracting and mineral resources, food resources, World food resources, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-	First Week of September to Last Week of September	Minor test in the first week of February

	pesticide problems, water logging, salinity, Energy resources: Growing energy needs, renewable and renewable energy resources, use of alternate energy resources, case studies, land resources, land as a resources, land degradation, man induced landslides, soil erosion and desertification		
Unit 3	Definition of Environmental Pollution, Causes effect and control measures of: Air Pollution, Water Pollution, soil pollution, noise pollution, Nuclear hazards and human health risks Solid waste management, Causes, effects and control measures of urban and industrial wastes, Pollution case studies, Disaster Management: Floods, Earthquake, Cyclone and landslides, climate changes, global warming, acid rain, ozone layer depletion, different laws related to environment: Environment Protection Act, Air (Prevention and control of pollution) Act, Water (Prevention and control of pollution) Act, Wildlife Protection Act, Forest Conservation Act, International agreement, Montréal and Kyoto Protocol and nature reserve, tribal population and human health	1st Week of October to 3rd Week of October	2nd Test in the first week of March
Unit 4	Concept of sustainability & sustainable development, water conservation, rain water harvesting, watershed management, Resettlement and rehabilitation of project affected persons, case studies, Environmental ethics, role of Indian and other religions and cultures in environmental conservation, Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi) Human Population growth: Impact on environment, human health and welfare, Environmental movements, Chipko, Silent valley, Bishnois of Rajasthan.,	4th Week of October to 4th week of November	…….
Revision	Revision, presentation, problem solving	Onwards	…….

Government College, Hansi

Unit wise Lesson Plan for the Odd Semester, 2023-24

Name of the Teacher: Jatin

Class: **B.A. 3rd Semester** Subject: **Geography** Paper: **Theory**

Unit	Description of Chapters/Topics	Duration	Assignment/Test
Unit 1	Weather and Climate; Origin, composition and structure of atmosphere. 2. Insolation, Global heat budget, Horizontal and vertical distribution of temperature, inversion of temperature.	First Week of August to last Week of August	1st Assignment in the 1st week of September
Unit 3	Atmospheric pressure- measurement and distribution, pressure belts, planetary winds, Monsoon, Jet Streams EL NINO- La Nina Phenomenon and Local winds. Humidity- measurement and variables, evaporation, condensation, precipitation types and distribution, hydrological cycle.	First Week of September to Last Week of September	--------
Unit 4	Air masses- concept and classification; Fronts-type and characteristics, Weather disturbances- tropical and extra-tropical cyclones. Climate classification by Koppen; climatic change and global warming.	1st Week of October to 3rd Week of October	Minor Test in the 1 Week of October
Unit 2	Configuration of oceanic floors and surface relief of Pacific, Atlantic and Indian Oceans; temperature and salinity of oceans. 2. Tides, waves and oceanic currents; circulation in Pacific, Atlantic and Indian Oceans; Oceanic resources.	4th Week of October to 4th week of November	2nd Assignment in the 2nd Week of November
Revision	Revision, presentation, problem solving	Onwards	…….

Government College, Hansi

Unit wise Lesson Plan for the Odd Semester, 2023-24

Name of the Teacher: Jatin

Class: **B.A. 3rd Semester** Subject: **Geography** Paper: **Practical**

Unit	Description of Chapters/Topics	Duration	Assignment/ Test
Unit 1	Measurement of temperature, rainfall, pressure and humidity.	First Week of August to last Week of August	…..
Unit 2	Representation of temperature and rainfall. (i) Line and Bar Graph - 1 Exercise. (ii) Distribution of temperature (180 therms) 1 Exercise. - (iii) Distribution of rainfall (180 hytes) - 1 Exercise. (iv) Hythergraph - 1 Exercise. (v) Rainfall deviation diagram - 1 Exercise.	First Week of September to Last Week of September	….
Unit 3	Climograph (wet and dry places) - 2 Exercise. Distribution of pressure (180 bars) - 2 Exercise.	1st Week of October to 3rd Week of October	….
Unit 4	Weather map Interpretation (January & July) - 2 Exercise	4th Week of October to 4th week of November	…..
Revision	Revision, presentation, problem solving	Onwards	…….

Government College, Hansi

Unit wise Lesson Plan for the Odd Semester, 2023-24

Name of the Teacher: Jatin

Class: **B.Sc 1st** Subject: **Geography** Paper: **Environmental Studies**

Unit	Description of chapters/topics	Duration	Assignment/ Test
Unit 1	Multidisciplinary nature of environmental studies: Definition, scope and importance, need for public awareness, Concept, structure and function of ecosystem: producers, consumers and decomposers, Energy flow in the ecosystem Ecological succession, Food chains, Food webs and ecological pyramids, Introduction, characteristics, features, structure and function of different ecosystem such as forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystem. Biodiversity: Introduction, Definition: genetic spices and ecosystem diversity, bio-geographical classification of India, Ecosystem & biodiversity services: ecological, economic, social, consumptive use, productive use, social ethical, aesthetic and options values ,Biodiversity at global, national and local level, India as a mega diversity nation Global Hot spot of biodiversity, threats to biodiversity, habit loss, poaching of wildlife, man wildlife conflicts, Biological invasions, Endangered and endemic spices of India, Conservation of biodiversity: In-situ and ex-situ conservation of biodiversity	First Week of August to last Week of August	1st assignment in the beginning of first week of January
Unit 2	Renewable and renewable resources, Natural resources and associated problems, Forest resources: Use and over exploitation, deforestation, case studies, Timber extraction, mining dams and their effects on forest and tribal people, Water resources , use and over utilization of surface and ground water, floods, droughts conflicts over water dams benefits and problems, Mineral resources, Use and exploitation, environmental effects of extracting and mineral resources, food resources, World food resources, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer- pesticide problems, water logging, salinity, Energy resources: Growing energy needs, renewable and renewable energy resources, use of alternate energy resources,	First Week of September to Last Week of September	Minor test in the first week of February

	case studies, land resources, land as a resources, land degradation, man induced landslides, soil erosion and desertification		
Unit 3	Definition of Environmental Pollution, Causes effect and control measures of: Air Pollution, Water Pollution, soil pollution, noise pollution, Nuclear hazards and human health risks Solid waste management, Causes, effects and control measures of urban and industrial wastes, Pollution case studies, Disaster Management: Floods, Earthquake, Cyclone and landslides, climate changes, global warming, acid rain, ozone layer depletion, different laws related to environment: Environment Protection Act, Air (Prevention and control of pollution) Act, Water (Prevention and control of pollution) Act, Wildlife Protection Act, Forest Conservation Act, International agreement, Montréal and Kyoto Protocol and nature reserve, tribal population and human health	1st Week of October to 3rd Week of October	2nd Test in the first week of March
Unit 4	Concept of sustainability & sustainable development, water conservation, rain water harvesting, watershed management, Resettlement and rehabilitation of project affected persons, case studies, Environmental ethics, role of Indian and other religions and cultures in environmental conservation, Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi) Human Population growth: Impact on environment, human health and welfare, Environmental movements, Chipko, Silent valley, Bishnois of Rajasthan.,	4th Week of October to 4th week of November	…….
Revision	Revision, presentation, problem solving	Onwards	…….

Government College, Hansi

Unit wise Lesson Plan for the Odd Semester, 2023-24

Name of the Teacher: **Virender Sihag**

Class: **B.A. 3rd Semester** Subject: **Geography** Paper: **Theory**

Unit	Description of Chapters/Topics	Duration	Assignment/Test
Unit 1	Weather and Climate; Origin, composition and structure of atmosphere. 2. Insolation, Global heat budget, Horizontal and vertical distribution of temperature, inversion of temperature.	First Week of August to last Week of August	1st Assignment in the 1st week of September
Unit 3	Atmospheric pressure- measurement and distribution, pressure belts, planetary winds, Monsoon, Jet Streams EL NINO- La Nina Phenomenon and Local winds. Humidity-measurement and variables, evaporation, condensation, precipitation types and distribution, hydrological cycle.	First Week of September to Last Week of September	--------
Unit 4	Air masses- concept and classification; Fronts-type and characteristics, Weather disturbances- tropical and extra-tropical cyclones. Climate classification by Koppen; climatic change and global warming.	1st Week of October to 3rd Week of October	Minor Test in the 1 Week of October
Unit 2	Configuration of oceanic floors and surface relief of Pacific, Atlantic and Indian Oceans; temperature and salinity of oceans. 2. Tides, waves and oceanic currents; circulation in Pacific, Atlantic and Indian Oceans; Oceanic resources.	4th Week of October to 4th week of November	2nd Assignment in the 2nd Week of November
Revision	Revision, presentation, problem solving	Onwards	…….

Government College, Hansi

Unit wise Lesson Plan for the Odd Semester, 2023-24

Name of the Teacher: **Virender Sihag**

Class: **B.A. 3rd Semester** Subject: **Geography** Paper: **Practical**

Unit	Description of Chapters/Topics	Duration	Assignment/ Test
Unit 1	Measurement of temperature, rainfall, pressure and humidity.	First Week of August to last Week of August	…..
Unit 2	Representation of temperature and rainfall. (i) Line and Bar Graph - 1 Exercise. (ii) Distribution of temperature (180 therms) 1 Exercise. - (iii) Distribution of rainfall (180 hytes) - 1 Exercise. (iv) Hythergraph - 1 Exercise. (v) Rainfall deviation diagram - 1 Exercise.	First Week of September to Last Week of September	….
Unit 3	Climograph (wet and dry places) - 2 Exercise. Distribution of pressure (180 bars) - 2 Exercise.	1st Week of October to 3rd Week of October	….
Unit 4	Weather map Interpretation (January & July) - 2 Exercise	4th Week of October to 4th week of November	…..
Revision	Revision, presentation, problem solving	Onwards	…….

Government College, Hansi

Unit wise Lesson Plan for the Odd Semester, 2023-24

Name of the Teacher: **Virender Sihag**

Class: **B.Com 1st** Subject: **Environmental Studies** Paper: **Environmental Studies**

Unit	Description of chapters/topics	Duration	Assignment/ Test
Unit 1	Multidisciplinary nature of environmental studies: Definition, scope and importance, need for public awareness, Concept, structure and function of ecosystem: producers, consumers and decomposers, Energy flow in the ecosystem Ecological succession, Food chains, Food webs and ecological pyramids, Introduction, characteristics, features, structure and function of different ecosystem such as forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystem. Biodiversity: Introduction, Definition: genetic spices and ecosystem diversity, bio-geographical classification of India, Ecosystem & biodiversity services: ecological, economic, social, consumptive use, productive use, social ethical, aesthetic and options values ,Biodiversity at global, national and local level, India as a mega diversity nation Global Hot spot of biodiversity, threats to biodiversity, habit loss, poaching of wildlife, man wildlife conflicts, Biological invasions, Endangered and endemic spices of India, Conservation of biodiversity: In-situ and ex-situ conservation of biodiversity	First Week of August to last Week of August	1st assignment in the beginning of first week of January
Unit 2	Renewable and renewable resources, Natural resources and associated problems, Forest resources: Use and over exploitation, deforestation, case studies, Timber extraction, mining dams and their effects on forest and tribal people, Water resources , use and over utilization of surface and ground water, floods, droughts conflicts over water dams benefits and problems, Mineral resources, Use and exploitation, environmental effects of extracting and mineral resources, food resources, World food resources, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer- pesticide problems, water logging, salinity, Energy resources: Growing energy needs, renewable and renewable energy resources, use of alternate energy resources,	First Week of September to Last Week of September	Minor test in the first week of February

	case studies, land resources, land as a resources, land degradation, man induced landslides, soil erosion and desertification		
Unit 3	Definition of Environmental Pollution, Causes effect and control measures of: Air Pollution, Water Pollution, soil pollution, noise pollution, Nuclear hazards and human health risks Solid waste management, Causes, effects and control measures of urban and industrial wastes, Pollution case studies, Disaster Management: Floods, Earthquake, Cyclone and landslides, climate changes, global warming, acid rain, ozone layer depletion, different laws related to environment: Environment Protection Act, Air (Prevention and control of pollution) Act, Water (Prevention and control of pollution) Act, Wildlife Protection Act, Forest Conservation Act, International agreement, Montréal and Kyoto Protocol and nature reserve, tribal population and human health	1st Week of October to 3rd Week of October	2nd Test in the first week of March
Unit 4	Concept of sustainability & sustainable development, water conservation, rain water harvesting, watershed management, Resettlement and rehabilitation of project affected persons, case studies, Environmental ethics, role of Indian and other religions and cultures in environmental conservation, Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi) Human Population growth: Impact on environment, human health and welfare, Environmental movements, Chipko, Silent valley, Bishnois of Rajasthan.,	4th Week of October to 4th week of November	…….
Revision	Revision, presentation, problem solving	Onwards	…….

Lesson Plan of Sh. Baljeet Singh, Extension Lecturer of History
B.A IInd Year 3rd Sem
Political History of India (1526 -1857 A.D)

Unit-I

1. Establishment of the Mugal Empire: Babur — 4th Aug., 2023 to 5th Sept., 2023

2. Sher shah Suri and His Administration :

3. Akbar; Expansion of Empire and religious Policy :

4. Aurangzed; Expansion of Empire and Religious Policy :

Unit-II

1. Relation of Mughals with with the Rajputs: — 6th Sept., 2023 to 30th Sept., 2023

2. Deccan Policy of the Mughals:

3. Mughal Administration and Revenue System:

4. Institutions; Mansabdari and Jagirdari:

5. Decline Of the Mughal Empire:

Unit-III

1. Rivalry between the French and the British in India: — 1st Oct., 2023 to 20th Nov., 2023

2. Founding of the British Empire; Battels of Plessey & Buxer:

3. Consolidation of the British Empire: Subsidiary Alliance System

and Doctrine of Lapse; annexation Of Punjab:

4. Uprising of 1857; Cause. Events and Consequences:

REVISION : — 21st Nov., 2023 to Till Paper starting

Lesson Plan of Sh. Baljeet Singh, Extension Lecturer of History

B.A. 1st Year 1st Semester
Ancient India (From Earliest Times to Gupta Age)
(Option –I)

Unit-I

1. Meaning of Scope of History: 4th Aug., 2023 to 5th Sept., 2023
2. Source of Ancient Indian History
3. Pre-Historic Age: Hnter Gatherers
4. Concept of Neolithic: Origins of Agriculture System
5. Harappan Civilization: Complete Topic:
6. Vedic Culture: Complete Topic:

Unit-II

1. Social Institution: Verna Cast, Untouchability and Gender Relations: 6th Sept., 2023 to 30th Sept., 2023
2. Emergency of State: Sixteen Mahanjanpadas and The Rise of Magadha Empire:
3. Religious Moments: Buddhism and Jainism:

Unit-III

1. Mauryan Empire: State Administration and Economy: Ashoka's Dhamma: Mauryan Art and Architecture: 1st Oct., 2023 to 20th Nov., 2023
2. Post- Mouryan Empires: Kushanas and Satvahanas:
3. Gupta Empire: Complete Topic:

REVISION : 21st Nov., 2023 to Till Paper starting

Lesson Plan of Sh. Kishan Pal, Associate Prof. of History
B.A IInd Year 3rd Sem
Political History of India (1526 -1857 A.D)

Unit-I

1.Establishment of the Mugal Empire: Babur	First week of Aug-23
2.Sher shah Suri and His Administration :	Second week of Aug-23
3.Akbar; Expansion of Empire and religious Policy :	Third week of Aug -23
4.Aurangzed; Expansion of Empire and Religious Policy :	Fourth Week of Aug 2

Unit-II

1.Relation of Mughals with with the Rajputs :	First week of Sept.-23
2.Deccan Policy of the Mughals :	Second week of Sept.23
3 Mughal Administration and Revenue System :	Third Week of Sept.23
4.Institutions; Mansabdari and Jagirdari :	Fourth Week of Sept.23
5.Decline Of the Mughal Empire :	First Week of Sept.23

Unit-III

1.Rivalry between the French and the British in India :	Second Week of Oct.23
2.Founding of the British Empire; Battels of Plessey & Buxer :	Third week of Oct.23
3.Consolidation of the British Empire: Subsidiary Alliance System and Doctrine of Lapse; annexation Of Punjab :	Fourth Week of Oct.23
4.Uprising of 1857; Cause. Events and Consequences :	First Week of Nov.23 upto 09th Nov

History

B.A. IIIrd Year 5th Semester
Rise of Modren World (Option –II)

Unit-I

1.Transition from Feudalism to Capitalism in Europe :	First Week of August-23
2.Renaissance: Origins,Emergecy and Results :	Second week of Aug-23
3.Reformation: Origins, Emergence and Results :	Third week of Aug -23

Unit-II

1.Shift of Economic Balance from the Mediterranean Region :	Fourth Week of Aug 23 to Atlantic
2.Early Colonial System: Motives, process and Consequences Colonization of Americas :	First week of Sept.-23Of
3.Mercantile Revolution: Orgins and Results :	Second week of Sept.23

Unit-III

1.Scientific Revolution: Origins and Impact :	Third Week of Sept.23
2.Glorious Revolution: origins and Results :	Fourth Week of Sept.23
3.Industrial Revolution: Origins, Progress and Impact :	upto 15 Oct.2023
4.Agricultural Revolution: Origins, progress and Impact :	upto 09 Nov.2023

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Amit Kumar Class: B.Sc. (NM) -II

Subject: Advanced Calculus Paper: CML 306

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Continuity, Sequential Continuity, properties of continuous functions, Uniform continuity, chain rule of differentiability. Mean value theorems; Rolle's Theorem and Lagrange's mean value theorem and their geometrical interpretations. Taylor's Theorem with various forms of remainders, Darboux intermediate value theorem for derivatives, Indeterminate forms.	24 July 2023 to 16 Aug. 2023	Test
Unit-2	Limit and continuity of real valued functions of two variables. Partial differentiation. Total Differentials; Composite functions & implicit functions. Change of variables. Homogenous functions & Euler's theorem on homogeneous functions. Taylor's theorem for functions of two variables.	17 Aug. 2023 to 10 September 2023	Assignment
Unit-3	Differentiability of real valued functions of two variables. Schwarz and Young's theorems. Implicit function theorem. Maxima, Minima and saddle points of two variables. Lagrange's method of multipliers.	11 September 2023 to 5 Oct 2023	Test
Unit-4	Jacobians, Beta and Gama functions, Double and Triple integrals, Dirichlets integrals, change of order of integration in double integrals..	6 Oct. 2023 to 7 November 2023	Test
Revision		17 November 2023 to till exam	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Amit Kumar Class: B.Sc. (Hons) -II

Subject: Special Function-I Paper: BML306

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Series solution of differential equations – Power series method, Definitions of Beta and Gamma functions. Bessel equation and its solution: Bessel functions and their properties Convergence, recurrence, Relations and generating functions, Orthogonality of Bessel functions.	24 July 2023 to 10 September 2023	Test
Unit-2	Legendre and Hermite differentials equations and their solutions: Legendre and Hermite functions and their properties-Recurrence Relations and generating functions. Orhogonality of Legendre and Hermite polynomials. Rodrigues' Formula for Legendre & Hermite Polynomials, Laplace Integral Representation of Legendre polynomial.	11 September 2023 to 7 November 2023	Assignment
Revision		17 November 2023 to till exam	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Amit Kumar Class: B.Sc. (NM) -I

Subject: Mathematics Lab-1

Unit	Description of Chapter / Topics	Duration
Unit-1	**Part A:** Introduction to Programming in C Data types, Operators andexpressions, Input / outputs functions. Decisions control structure: Decision statements, Logical and conditional statements, Implementation of Loops-for, while, do while; Switch Statement & Case control structures. **Part B:** Following Program should be done as Practical:- 1. Program to interchange the value of two variables. 2. Program to calculate compound interest. 3. Program for testing a leap year.	4^{th} week of July 1^{st} week to 3^{rd} week of August
Unit-2	4. Program to find greatest of three numbers. 5. Program to calculate Gross salary of an employee. 6. Program to prepare electricity Bill. 7. Program to find roots of a quadratic equation.	4^{th} week of August to 3^{rd} week of September
Unit-3	8. Program to provide output of a given function. 9. Program to display table of an input number 10. Program to find reverse of a number 11. Program to generate Fibonacci series.	4^{th} week of September to 3^{rd} week of October
Unit-4	12. Program to check whether number is prime or not. 13. Program to generate first n prime numbers.	4^{th} Week of October to till Exam

	14. Program to check a number is Armstrong or not. 15. Program to convert a number to its binary equivalent.	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Amit Kumar Class: B.A. -I

Subject: Mathematics Lab-1

Unit	Description of Chapter / Topics	Duration
Unit-1	**Part A:** Introduction to Programming in C Data types, Operators andexpressions, Input / outputs functions. Decisions control structure: Decision statements, Logical and conditional statements, Implementation of Loops-for, while, do while; Switch Statement & Case control structures. **Part B:** Following Program should be done as Practical:- 1. Program to interchange the value of two variables. 2. Program to calculate compound interest. 3. Program for testing a leap year.	4^{th} week of July 1^{st} week to 3^{rd} week of August
Unit-2	4. Program to find greatest of three numbers. 5. Program to calculate Gross salary of an employee. 6. Program to prepare electricity Bill. 7. Program to find roots of a quadratic equation.	4^{th} week of August to 3^{rd} week of September
Unit-3	8. Program to provide output of a given function. 9. Program to display table of an input number 10. Program to find reverse of a number 11. Program to generate Fibonacci series.	4^{th} week of September to 3^{rd} week of October
Unit-4	12. Program to check whether number is prime or not. 13. Program to generate first n prime numbers.	4^{th} Week of October to till Exam

	14. Program to check a number is Armstrong or not. 15. Program to convert a number to its binary equivalent.	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Amit Kumar Class: B.Sc. -II

Subject: Mathematics Lab-III

Unit	Description of Chapter / Topics	Duration
Unit-1	1.Programmer's model of a computer, Algorithms, Flow charts, Data types, 2.Operators and expressions, Input / Output functions.	4th week of July 1st week to 3rd week of August
Unit-2	1.Decisions control structure: Decision statements, 2.Logical and conditional statements, Implementation of Loops, 3.Switch Statement & Case control structures. 4.Functions, Preprocessors and Arrays.	4th week of August to 3rd week of September
Unit-3	1.Strings: Character Data Type, Standard String handling Functions, Arithmetic Operations on Characters. 2.Structures: Definition, using Structures, use of Structures in Arrays and Arrays in Structures. Pointers: 3.Solution of Algebraic and Transcendental equations: Bisection method, Regula-Falsi method, Secant method, 4.Newton-Raphson's method. Newton's iterative method for finding pth root of a number	4th week of September to 3rd week of October
Unit-4	Newton Forward Interpolation Method Newton Backward Interpolation Method Gauss Forward Interpolation Method	4th Week of October to till Exam

	Gauss Backward Interpolation Method	

CLASS:B.Sc./B.A.-I Year I Sem(2023-24)NAME OF PAPER - CALCULUS PAPER CODE - CML-107, BAMH-B.Sc
Teacher-Ankur Bala

SR. NO.	MONTHS	PERIOD	TOPICS
1.	**August**	**1st week** **2nd week** **3rd week** **Last week**	1. ε-δ definition of the limit of a function, Basic properties of limits, 2. Continuous functions and classification of discontinuities. 3. Successive differentiation. 4. Leibnitz theorem, Maclaurin and Taylor series expansions.
2.	**September**	**1st week** **2nd week** **3rd week** **Last week**	1. Asymptotes in Cartesian coordinates, Intersection of curve and its asymptotes..Asymptotes in polar coordinates, 2. Curvature, Radius of curvature for Cartesian curves, parametric curves, polar curves, 3. Tests for concavity and convexity, singular points, 4. ., Point of inflexion, Multiple points, Cusps, nodes and conjugate points, species of cusps
3.	**October**	**1st week** **2nd week** **3rd week** **Last week**	**1.** Tracing of curves in Cartesian, parametric and polar co-ordinates. **2.** Reduction formulae, .Derivation of Reduction formulae by connecting with other integral. **3.** Rectification. **4.** Length of curve in Cartesian,Parametric and polar curves.
4.	**November**	**1st week** **2nd week** **3rd week**	**1.** Quadrature(area) Sectorial area. **2.** Area bounded by closed curves. Area enclosed by curves in polar form. **3.** .Volumes and Surfaces of solids of revolution. **4.** Volume bounded between two solids.

CLASS:B.Sc.-II(2023-24) III Sem

NAME OF PAPER – NUMERICAL ANALYSIS

PAPER CODE - CML-307

Teacher-Ankur Bala

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week 2nd week 3rd week Last week	1. Finite Difference operators and their relations, difference table, finding the missing terms and effectof errorin a difference tabular values, 2. Interpolation with equal intervals: derivations ofNewton's forward andNewton's backward interpolation formulae and their applications, 3. Interpolation with unequal intervals: derivations of Newton's divided difference & 4. Lagrange's Interpolation formulae and theirapplications.
2.	September	1st week 2nd week 3rd week Last week	1. Central Difference interpolation formulae: derivations of Gauss's forward and Gauss's backwardinterpolation formulae, Sterling,Besselformulae and their applications. 2. Numerical Differentiation: Relation between difference operator and derivative operator,3.Derivative of a function using interpolation formulae (asstudied in Sections – I & II). 4. Numerical Integration: Newton-Cote's Quadratureformula, Trapezoidal rule, Simpson's one- third rule and Simpson's three-eighth rule, Chebychev formula, Gauss Quadrature formula.
3.	October	1st week 2nd week3rd week Last week	1.Solution of Algebraic and Transcendental equations: Bisection method, Regula-Falsi method, Secant method,Newton-Raphson's method, 2.Newton's iterative method for finding pth root of anumber. 3. Simultaneous linearalgebraic equations: Gauss- elimination method, Gauss-Jordan method, triangularization method (LUdecomposition method). 4. Iterative method, Jacobi's method, Gauss-Seidal'smethod, Relaxation method.

4.	**November**	**1st week** **2nd week** **3rd week** **Last** **week**	Eigen Value Problems: Power method, Jacobi's method, Given's method, House-Holder's method. Numerical solution of ordinary differential equations:Single step methods-Picard's method. Taylor's seriesmethod, Euler's method, Modified Euler's method, Runge-Kutta Methods. Multiple step methods; Predictorcorrector method, Milne-Simpson's method

CLASS:B.Sc.-III(2023-24)

NAME OF PAPER – NUMBER THEORY AND TRIGONOMETRY

PAPER CODE (for B.Sc.) - CML-508(j)

Teacher-Ankur

SR. NO.	MONTHS	PERIOD	TOPICS
1.	**August**	**1st week** **2nd week** **3rd week** **Last week**	1 Linear Diophantine equation, primecounting function, 2.statement of prime number theorem,Goldbach conjecture, 3 linear congruences, complete set ofresidues, 4.Chinese remainder theorem, Fermat's littletheorem, Wilson's theorem
2.	**September**	**1st week** **2nd week** **3rd week** **Last week**	1.Number theoretic functions, sum and number of divisors, totally multiplicativefunctions, 2.the Möbius inversion formula, the greatestinteger function, 3.Euler's phi-function, Euler's theorem, 4.reduced set of residues, some properties of Euler's phi-function.
3.	**October**	**1st week** **2nd week** **3rd week** **Last week**	1.Order of an integer modulo n, primitiveroots for primes, 2.composite numbers having primitive roots,Euler's criterion, 3.the Legendre symbol and its properties,quadratic reciprocity, 4.quadraticcongruences with composite moduli.
4.	**November**	**1st week** **2nd week** **3rd week** **Last week**	1.Exponential, Logarithmic, Circular functions; sin(nx), cos(nx), tan(nx), sinnx ,cosnx, tannx, 2.hyperbolic and inverse hyperbolic functions - simple problems. Gregory'sseries, 3.Summation of Trigonometric series, 4. Trigonometric expansions of sine and cosine as infinite products (without proof).

CLASS:B.Com. -I (2023-24)

NAME OF PAPER – BUSSINESS MATHEMATICS

PAPER CODE – BC-105

Teacher-Ankur Bala

SR. NO.	MONTHS	PERIOD	TOPICS
1.	**August**	**1st week** **2nd week** **3rd week** **Last week**	**1.** Matrices and Determinants: concept ofmatrix, types, and algebra of matrices; properties of determinants; **2.** calculation of values of determinants up tothird order, adjoint of a matrix, elementary row or column operations; **3.** Finding inverse of a matrix through adjointand elementary row or column operations; 4.solution of a system of linear equations having unique solution and involving not more than three variables.
2.	**September**	**1st week** **2nd week** **3rd week& Last week**	1. Linear inequalities: 2. graphical solution of linearequalities in two variables, 3. solution of system of linear inequalities in two variables.
3.	**October**	**1st week** **2nd week3rd week** **Last week**	1. Linear programming-formulation ofequation: 2. graphical method of solution; 3. problems relating to two variables including the case of mixed constraints; cases having nosolution, 4. multiple solutions, unbounded solution and redundant constraints.
4.	**November**	**1st week** **2nd week** **3rd week** **Last week**	1. Logarithms and 2. Anti-logarithms, 3. Permutations and 4. Combinations.

Government College Hansi
Unit wise Lesson Plan for Odd Semester, 2023-24
Name of Teacher : Mr. Dhanesh kumar
Class: B.Sc 2nd (H) 3rd semester
Semester: 3 Subject: Mathematics Paper: Advanced Calculus

Subject:Unit 1	Continuity, Sequential Continuity, properties of continuous functions, Uniform continuity, chain rule of differentiability. Mean value theorems; Rolle's Theorem and Lagrange's mean value theorem and their geometrical interpretations. Taylor's Theorem with various forms of remainders, Darboux intermediate value theorem for derivatives, Indeterminate forms.	24-07-2023 to 16-08-2023	Verbly test
Unit 2	Limit and continuity of real valued functions of two variables. Partial differentiation. Total Differentials; Composite functions & implicit functions. Change of variables. Homogenous functions & Euler's theorem on homogeneous functions. Taylor's theorem for functions of two variables.	17-08-2023 to 10-09-2023	Ist Assignment in 2nd week of august
Unit 3	Differentiability of real valued functions of two variables. Schwarz and Young's theorem. Implicit function theorem. Maxima, Minima and saddle points of two variables. Lagrange's method of multipliers.	11-09-2023 to 05-10-2023	Minor test in the last week of september
Unit 4	Curves: Tangents, Principal normals, Binormals, Serret-Frenet formulae. Locus of the centre of curvature, Spherical curvature, Locus of centre of Spherical curvature, Involutes, evolutes, Bertrand Curves. Surfaces: Tangent planes, one parameter family of surfaces, Envelopes.	06-10-2023 to 07-11-2023	2nd Assignement in the last week of October

Revision		17-11-2023 to till Exam	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Name of Teacher Mr. Dhanesh kumar class : **B.Sc 1st (H) Semester**
Subject: **Agebra** Paper : **BM-111**

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	Symmetric, skew symmetric,hermition and skew hermition matrices, elementary operation on matrices. Rank of matrix.inverse of matrix,linerae dependence and independence of rows and colums of matrices,row rank and column rank of matrices,eigen values,eigen vectors and characterstic equation of matrix, minimal polynomialof matrix, cayley Hamilton theorem and its use to finding inverse	24-07-2023 to 16-08-2023	Verbly test
Unit 2	Application of matrices to a system of linear equation,theorem of consistency of a system of linear equation,unitae=ry and orthogonal matrices,bilinear and quaradic forms.	17-08-2023 to 10-09-2023	
Unit 3	Relations between roots and coefficients of general polynomial equation in one variable,solution of polynomial equations having condition of roots. Transformation of equations,common roots and multiple roots.	11-09-2023 to 05-10-2023	Ist Assignment inlast week of september
Unit 4	Nature of roots of an equation. Descarte rule of sign,solution of cubic equation, biquaadratic equations and their solutions.	06-10-2023 to 07-11-2023	2nd Assignement in the last week of november
Revision		17-11-2023 to till Exam	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Name of Teacher Mr. Dhanesh kumar class : **B.Sc (H) 3rd Semester**
Subject: Ordinary Differntial Equation

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	Exact Differential Equations . Equations of First Order but not of First Degree	24-07-2023 to 16-08-2023	Verbly test
Unit 2	Exact Differential Equations . Equations of First Order but not of First Degree	17-08-2023 to 10-09-2023	
Unit 3	Homogenous Linear Equations . Linear Differential Equations of Second order	11-09-2023 to 05-10-2023	Ist Assignment inlast week of september
Unit 4	Ordinary Simultaneous Differential Equations. Total Differential Equations	06-10-2023 to 07-11-2023	2nd Assignement in the last week of november
Revision		17-11-2023 to till Exam	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Name of Teacher Mr. Dhanesh kumar class : **B.Sc (H) 5th Semester**
Subject: **Sequences and Series**

Unit	Description of Chapter/Topic	Duration	Assignment/Test
Unit 1	Set, Finite set, Infinite Set, Boundedness g.l.b, l.u.b, examples Neighbourhood of a point, Examples, open sets Interior point of a set, isolated point Limit point of a set, examples Thorems related to limit points, Derived set and related results	24-07-2023 to 16-08-2023	Verbly test
Unit 2	Properties of limit points, Closed sets, closure of a set and related results Examples , B.W.T and compactness B.W.T related results and examples Open Cover , Heine Borel Theorm Definition of sequence, examples, type of sequences, real sequennce , to find general term of sequnce , range of sequ Convergence and divergence of a sequnce, related results, examples Bounded sequnces, Monotone sequnces Monotone convergence theorems, Cauchy sequnce, Cauchy Criterion , Examples and problems	17-08-2023 to 10-09-2023	
Unit 3	Comparison Test-1, II Problems and solution and application Cauchy Test for series and related results and problems Geomertics series test problems and solution Harmonic series and p-test , related problems and solution exercise Ratio test - Problems and solutions Raabe's Test- Problems and solutions Logrithmic Test- Problems and solutions Demorgan and Bertrand Test- Problems and solutions	11-09-2023 to 05-10-2023	Ist Assignment inlast week of september
Unit 4	Cauchy Root test - Problems and solutions Guass Test- Problems and solutions Integral Test- Problems and solutions Condensation Test- Problems and solutions Alternate series- definition , Examples Leibnitz Test- Problems and solutions Absolute Convergence- Problems and	06-10-2023 to 07-11-2023	2nd Assignement in the last week of november

	solutions Arbitrary Series- Definition and examples Abel's lemma- Problems and solutions Dirichlet' test- Problems and solutions Test for convergence of rearrangement of series- Riemann test Multiplication of series, Cauchy product of series, convergence of infinite product Absolute Convergence of infinite products- Problems and solutions		
Revision		17-11-23 to till Exam	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-2024 B.A. 2nd

Name of Teacher : Sandeep kumar

Semester: 3. Subject: Mathematics Paper: Numerical analysis

Class : **B.A.** **3rdSemester** Subject:Unit 1	Finite Differences operators and their relations. Finding the missing terms and effect of error in a difference tabular values, Interpolation with equal intervals: Newton's forward and Newton's backward interpolation formulae. Interpolation with unequal intervals: Newton's divided difference, Lagrange's Interpolation formulae, Hermite Formula.	2rd week of august to 4th week of August 2023	Verbly test
Unit 2	Central Differences: Gauss forward and Gauss's backward interpolation formulae, Sterling, Bessel Formula. Probability distribution of random variables, Binomial distribution, Poisson's distribution, Normal distribution: Mean, Variance and Fitting.	4st week of August to2nd week of September 2023	
Unit 3	Numerical Differentiation: Derivative of a function using interpolation formulae as studied in Sections –I & II. Eigen Value Problems: Power method, Jacobi's method, Given's method, House-	3rd week of september to Ist week of octomber 2023	

	Holder's method, QR method, Lanczos method. SECTION-I		
Unit 4	Numerical Integration: Newton-Cote's Quadrature formula, Trapezoidal rule, Simpson's one- third and three-eighth rule, Chebychev formula, Gauss Quadrature formula. Numerical solution of ordinary differential equations: Single step methods- Picard's method. Taylor's series method, Euler's method, Runge-Kutta Methods. Multiple step methods; Predictor-corrector method, Modified Euler's method, Milne-Simpson's method.	2^{nd} week of october to 4^{th} week of october	1^{nd} Assignement in the last Week of september Minor test in the last week of october
Revision		november	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Name of Teacher Mr. Sandeep Kumar class : **B.Sc 1st Semester**
Subject: **Agebra** Paper : **BM-111**

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	Symmetric, skew symmetric,hermition and skew hermition matrices, elementary operation on matrices. Rank of matrix.inverse of matrix,linerae dependence and independence of rows and colums of matrices,row rank and column rank of matrices,eigen values,eigen vectors and characterstic equation of matrix, minimal polynomialof matrix, cayley Hamilton theorem and its use to finding inverse	2rd week of august to 4th week of August 2023	Verbly test
Unit 2	Application of matrices to a system of linear equation,theorem of consistency of a system of linear equation,unitae=ry and orthogonal matrices,bilinear and quaradic forms.	4st week of August to2nd week of September 2023	
Unit 3	Relations between roots and coefficients of general polynomial equation in one variable,solution of polynomial equations having condition of roots. Transformation of equations,common roots and multiple roots.	3rd week of september to Ist week of octomber 2023	Ist Assignment inlast week of august
Unit 4	Nature of roots of an equation. Descarte rule of sign,solution of cubic equation, biquaadratic equations and their solutions.	2nd week of october to 4th week of october	2nd Assignement in the last week of september Test last week of October
Revision		November	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-24

Name of Teacher Mr. Sandeep Kumar class : **B.A. 1st Semester**
Subject: **Agebra** Paper : **BM-111**

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	Symmetric, skew symmetric,hermition and skew hermition matrices, elementary operation on matrices. Rank of matrix.inverse of matrix,linerae dependence and independence of rows and colums of matrices,row rank and column rank of matrices,eigen values,eigen vectors and characterstic equation of matrix, minimal polynomialof matrix, cayley Hamilton theorem and its use to finding inverse	2rd week of august to 4th week of August 2023	Verbly test
Unit 2	Application of matrices to a system of linear equation,theorem of consistency of a system of linear equation,unitae=ry and orthogonal matrices,bilinear and quaradic forms.	4st week of August to2nd week of September 2023	
Unit 3	Relations between roots and coefficients of general polynomial equation in one variable,solution of polynomial equations having condition of roots. Transformation of equations,common roots and multiple roots.	3rd week of september to Ist week of octomber 2023	Ist Assignment in last week of August
Unit 4	Nature of roots of an equation. Descarte rule of sign,solution of cubic equation, biquaadratic equations and their solutions.	2nd week of october to 4th week of october	2nd Assignement in the last week of september Test in last week october
Revision		November	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2022-23

Name of Teacher Mr. Sandeep Kumar class : **B.A. 5th Semester**
Subject: **Sequences and Series**

Unit	Description of Chapter/Topic	Duration	Assignment/Test
Unit 1	Set, Finite set, Infinite Set, Boundedness g.l.b, l.u.b, examples Neighbourhood of a point, Examples, open sets Interior point of a set, isolated point Limit point of a set, examples Thorems related to limit points, Derived set and related results .Properties of limit points, Closed sets, closure of a set and related results Examples , B.W.T and compactness B.W.T related results and examples Open Cover , Heine Borel Theorm Definition of sequence, examples, type of sequences, real sequennce , to find general term of sequnce , range of sequ Convergence and divergence of a sequnce, related results, examples Bounded sequnces, Monotone sequnces Monotone convergence theorems, Cauchy sequnce, Cauchy Criterion , Examples and problems	2rd week of august to 4th week of August 2023	Verbly test
Unit 2	Infinite series : Comparison Test-1, II Problems and solution and application Cauchy Test for series and related results and problems Geomertics series test problems and solution Harmonic series and p-test , related problems and solution exercise Ratio test - Problems and solutions Raabe's Test- Problems and solutions Logrithmic Test- Problems and solutions Demorgan and Bertrand Test- Problems and solutions	4st week of August to2nd week of September 2023	
Unit 3	Fourier's series: Fourier expansion of piecewise monotonic functions, Properties of Fourier Co-efficients, Dirichlet's conditions, Parseval's identity for Fourier series, Fourier	3rd week of september to Ist week of octomber 2023	Ist Assignment in last week of August

	series for even and odd functions, Half range series, Change of Intervals.		
Unit 4	Riemann integral, Integrabililty of continuous and monotonic functions, The Fundamental theorem of integral calculus. Mean value theorems of integral calculus.	2nd week of october to 4th week of october	2nd Assignement in the last week of September Test in last week of october
Revision		November	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2022-23

Name of Teacher Mr. Sandeep kumar class : **B.Sc (H) 5th Semester**
Subject: **Sequences and Series**

Unit	**Description of Chapter/Topic**	**Duration**	**Assignment/Test**
Unit 1	Set, Finite set, Infinite Set, Boundedness g.l.b, l.u.b, examples Neighbourhood of a point, Examples, open sets Interior point of a set, isolated point Limit point of a set, examples Thorems related to limit points, Derived set and related results .Properties of limit points, Closed sets, closure of a set and related results Examples , B.W.T and compactness B.W.T related results and examples Open Cover , Heine Borel Theorm	2rd week of august to 4th week of August 2023	Verbly test
Unit 2	Definition of sequence, examples, type of sequences, real sequennce , to find general term of sequnce , range of sequ Convergence and divergence of a sequnce, related results, examples Bounded sequnces, Monotone sequnces Monotone convergence theorems, Cauchy sequnce, Cauchy Criterion , Examples and problems Comparison Test-1, II Problems and solution and application Cauchy Test for series and related results and problems Geomertics series test problems and solution Harmonic series and p-test	4st week of August to2nd week of September 2023	
Unit 3	Infinite Series:-related problems and solution exercise Ratio test - Problems	4th week of September to	Ist Assignment in last week of August

	and solutions Raabe's Test- Problems and solutions Logrithmic Test- Problems and solutions Demorgan and Bertrand Test- Problems and solutions Cauchy Root test - Problems and solutions Guass Test- Problems and solutions Integral Test- Problems and solutions Condensation Test Problems and solutions	4th week of October3rd week of september to Ist week of octomber 2023	
Unit 4	Alternate series- definition , Examples Leibnitz Test- Problems and solutions Absolute Convergence- Problems and solutions Arbitrary Series- Definition and examples Abel's lemma- Problems and solutions Dirichlet' test- Problems and solutions Test for convergence of rearrangement of series- Riemann test Multiplication of series, Cauchy product of series, convergence of infinite product Absolute Convergence of infinite products- Problems and solutions	2nd week of october to 4th week of october	2nd Assignement in the last week of September Test in November
Revision		November	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department:Mathematics

Name of Teacher:Manish Gautam Class:B.Sc. 2 hons.

Subject:Mathematics Paper:Mathematical Statistics

Unit	**Description of Chapter / Topics**	Months	**Assignment / Test**
Unit-1	Measures of Central Tendency and Location: Mean, median, mode, geometric mean, harmonic mean, partition values. Measures of Dispersion: Absolute and relative measures of range, quartile deviation, mean deviation, standard deviation (σ), coefficient of variation.	1 Month	

Unit-2	Measures of Central Tendency and Location: Mean, median, mode, geometric mean, harmonic mean, partition values. Measures of Dispersion: Absolute and relative measures of range, quartile deviation, mean deviation, standard deviation (σ), coefficient of variation.	2 Month	
Unit-3	Basic concepts in Probability, Bayes' theorem and its applications. Random Variable and Probability Functions: Definition and properties of random variables, discrete and continuous random variable, probability mass and density functions, distribution function.	3 Month	

Unit-4	Correlation for Bivariate Data: Concept and types of correlation, Scatter diagram, Karl Pearson Coefficient (r) of correlation and rank correlation coefficient. Linear Regression: Concept of regression, principle of least squares and fitting of straight line, derivation of two lines of regression, properties of regression coefficients, standard error of estimate obtained from regression line, correlation coefficient between observed and estimated values. Angle between two lines of regression. Difference between correlation and regression.	4 Month	02/11/2023

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department:Mathematics

Name of Teacher:Manish Gautam Class:B.C.A. 1 YEAR

Subject:Mathematics Paper:Mathematical Foundation

Unit	**Description of Chapter / Topics**	Months	**Assignment / Test**
Unit-1	Set, Subsets and operations on sets, Venn Diagram of Sets, Power set of a set. Equivalence relation on a set and partition of a set, Partially ordered sets. Boolean Algebra (definition and examples)	1 month	
Unit-3		3 month	30/10/2023

	Addition and multiplication of matrices, Laws of matrix algebra, Singular and non-singular matrices, Inverse of a matrix, Rank of a matrix, Rank of the Product of two matrices, System of Linear equations i.e. AX=0 and AX=B		
Unit-4	Characteristic equations of a square matrix, Cayley-Hamilton Theorem, Eigenvalues and eigenvectors,	4 month	

	Eigenvalues and eigenvectors of symmetric skew symmetric, Hermitian and skew- Hermitan matrices.		

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher:Manish Gautam Class: B.Sc.III Non medical.

Subject: Mathematics Paper: Groups and Rings

Unit	Description of Chapter / Topics	Months	Assignment / Test
Unit-1	Definition of a group with example and simple properties of groups, Subgroups and Subgroup criteria, Generation of groups, cyclic groups, Cosets, Left and right cosets, Index of a sub-group Coset decomposition, Largrage's theorem and its consequences, Normal subgroups, Quotient groups	1 Month	
Unit-2	Homeomorphisms, isomophisms, automorphisms and inner automorphisms of a group. Automorphisms of cyclic groups, Permutations groups. Even and odd permutations. Alternating	2 Month	

	groups, Cayley's theorem, Center of a group and derived group of a group.		
Unit-3	Introduction to rings, subrings, integral domains and fields, Characteristics of a ring. Ring homomorphisms, ideals (principle, prime and Maximal) and Quotient rings, Field of quotients of an integral domain.	3 Month	27/10/2023
Unit-4	Euclidean rings, Polynomial rings, Polynomials over the rational field, The Eisenstein's criterion, Polynomial rings over commutative rings, Unique factorization domain, R unique factorization domain implies so is R[X1 , X2,……Xn]	4 Month	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher:Manish Gautam Class: B.A.3rd year

Subject: Mathematics Paper: Groups and Rings

Unit	Description of Chapter / Topics	Months	Assignment / Test
Unit-1	Definition of a group with example and simple properties of groups, Subgroups and Subgroup criteria, Generation of groups, cyclic groups, Cosets, Left and right cosets, Index of a sub-group Coset decomposition, Largrage's theorem and its consequences, Normal subgroups, Quotient groups	1 month	
Unit-2	Homeomorphisms, isomophisms, automorphisms and inner automorphisms of a group. Automorphisms of cyclic groups, Permutations groups. Even and odd permutations. Alternating groups, Cayley's theorem, Center of a group and derived group of a group.	2 Month	
Unit-3	Introduction to rings, subrings, integral domains and fields, Characteristics of a ring. Ring homomorphisms, ideals (principle, prime and Maximal) and Quotient rings, Field of quotients of an integral domain.	3 Month	28/10/2023

Unit-4	Euclidean rings, Polynomial rings, Polynomials over the rational field, The Eisenstein's criterion, Polynomial rings over commutative rings, Unique factorization domain, R unique factorization domain implies so is R[X1 , X2,……Xn]	4 Month	

CLASS:B.A.-II Year (III Sem)(2023-24) NAME OF PAPER – ADVANCE CALCULUSPAPER CODE – BAMH-201
Teacher-Priyanka

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week 2nd week 3rd week Last week	1. Continuity, Sequential Continuity, properties of continuous functions, Uniform continuity, chain rule ofdifferentiability. 2. Mean value theorems; Rolle's Theorem and Lagrange's mean value theorem and theirgeometrical interpretations. 3. Taylor's Theorem with various forms of remainders, Darboux intermediatevaluetheorem for derivatives, 4. Indeterminate forms.
2.	September	1st week 2nd week 3rd week Last week	1. Limit and continuity of real valued functions oftwo variables. Partial differentiation. 2. Total Differentials;Compositefunctions &implicit functions. 3. Change of variables. Homogenous functions &Euler's theoremon homogeneous functions. 4. Taylor's theorem for functions of two variables
3.	October	1st week 2nd week 3rd week Last week	1. Differentiability of real valued functions oftwo variables. 2. Schwarz and Young's theorems.Implicitfunction theorem. 3. Maxima, Minima and saddle points of twovariables. 4. Lagrange's method of multipliers .

4.	**November**	**1st week** **2nd week** **3rd week** **Last week**	**1.** Jacobians, Beta and Gama functions, **2.** Double and Triple integrals, **3.** Dirichlets integrals, **4.** change of order ofintegration in doubleintegrals..

CLASS: B.Sc.- III (V Sem)(2023-24) NAME OF PAPER – SEQUENCE AND SERIES

PAPER CODE - CML-507(i)

Teacher-Priyanka

SR. NO.	MONTHS	PERIOD	TOPICS
1.	August	1st week 2nd week 3rd week Last week	1. Boundedness of the set of real numbers; least upper bound, greatest lower bound of a set, neighborhoods, interior points, isolated points, 2. limit points, open sets, closed set, interior of a set, closureof a set in real numbers and their properties. 3. Sequence: Real Sequences and their convergence, Theoremon limits of sequence, Bounded and monotonic sequences 4.Cauchy's sequence, Cauchy general principle ofconvergence, sub sequence, subsequential limits.
2.	September	1st week 2nd week 3rd week Last week	1.Infinite series: Convergence and divergence of InfiniteSeries, Comparison Tests of positive terms Infinite series, 2Cauchy's general principle of Convergence of series,Convergence and divergence of geometric series. 3.Hyper Harmonic series or p-series.Infinite series: D-Alembert's ratio test, Raabe's test, Logarithmic test, 4.Cauchy's Nth root test, Gauss Test, Cauchy's Integral test,Cauchy's condensation test. Alternating series: Leibnitz's test, absolute and conditional convergence. Arbitrary series: Abel's lemma, Abel's test, Dirichlet's test.
3.	October	1st week 2nd week 3rd week Last week	1. Fourier's series: Fourier expansion of piecewisemonotonic functions. 2. Properties of Fourier Co-efficients, Dirichlet's conditions. 3. Parseval's identity for Fourier series. 4. Fourier series for even and odd functions, Half rangeseries, Change of Intervals.
4.	November	1st week 2nd week Last week	1Riemann integral: Definition and examples. Darboux's Theorem and condition of existence of Riemann's integral. 2.Integrabililty of continuous, monotonic functions and discontinuous functions. Properties of integrable functions. 3.Continuity and differentiability of integrable functions. Primitive. 4.The Fundamental theorem of integral calculus. Mean value theorems of integral calculus.

		3rd week **Last week**	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Dr. Rahmaan Khan | Class: B.Sc.III (H)

Subject: Mathematics | Paper: Operation Research -II

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Inventory Control: introduction of inventory, factors affecting inventory, Inventory models, Deterministic models: Economic order quantity model when shortages are allowed/not allowed, price discounts model, multi-item inventory models.	24-07-2023 to 16-08-2023	
Unit-2	Queuing Theory : Basic characteristics of queuing system, Birth-death equations, Steady state solution of Markovian queuing models with single and multiple servers with infinite capacity (M/M/1 and M/M/c), and with limited capacity (M/M/1/K and M/M/c/K).	17-08-2023 to 10-09-2023	
Unit-3	Sequencing problems: Processing of n jobs through 2 machines, n jobs through 3 machines, 2 jobs through m machines, n jobs through m machines. Replacement problems: Replacement of items whose running cost increases with time, Replacement policies for the items that fail completely – Individual and the group replacement policies.	11-09-2023 to 05-10-2023	
Unit-4	PERT and CPM: Introduction of PERT and CPM, Earliest and latest times, Determination of critical path and various types of floats, Probablistic and cost considerations in project scheduling	06-10-2023 to 07-11-2023	

Revision	Revision of the Syllabus	17-11-2023 to Exam	

Lesson Plan
Government College, Hansi
Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Dr. Rahmaan Khan Class: B.A.III
Subject: Mathematics Paper: Number Theory and Trigonometry

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Statement of Prime Number Theorem, Prime Counting Function, Complete set of residues, Linear Congruence, Fermat's theorem. Wilson's theorem, Chinese Remainder Theorem. Linear Diophantine equations.	24-07-2023 to 16-08-2023	
Unit-2	Number Theoretic function, Euler's ϕ function, Some theorems on Euler's function, totally multiplicative function, Greatest integer function [x]. The number of divisors and the sum of divisors of a natural number n (The functions d(n) and □(n)). Moebius function and Moebius inversion formula.	17-08-2023 to 10-09-2023	
Unit-3	Order of an integer modulo n, primitive roots for primes, Composite numbers having primitive	11-09-2023 to 05-10-2023	

	roots, Euler's criterion, Quadratic reciprocity, Quadratic congruences with composite moduli.		
Unit-4	Exponential, Logarithmic, Circular functions; sin(nx), cos(nx), tan(nx), sin^n(x), cos^n(x), tan^n(x), Hyperbolic functions and Inverse Hyperbolic functions: simple problems, Trigonometric functions of sine and cosine as infinite products (without proof).	06-10-2023 to 07-11-2023	
Revision	Revision of the Syllabus	17-11-2023 to Exam	

Lesson Plan
Government College, Hansi
Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Dr. Rahmaan Khan
Class: B.Sc.II (H)
Subject: Mathematics
Paper: Number Theory and Trigonometry

Unit	**Description of Chapter / Topics**	**Duration**	**Assignment / Test**
Unit-1	Divisibility, G.C.D.(greatest common divisors), L.C.M.(least common multiple) Primes, Fundamental Theorem of Arithemetic. Linear Congruences, Fermat's theorem. Wilson's theorem and its converse. Linear Diophanatine equations in two variables	24-07-2023 to 16-08-2023	
Unit-2	Complete residue system and reduced residue system modulo m. Euler's ϕ function Euler's generalization of Fermat's theorem. Chinese Remainder Theorem. Quadratic residues. Legendre symbols. Lemma of Gauss; Gauss reciprocity law. Greatest integer function [x]. The number of divisors and the sum of divisors of a natural number n (The functions d(n) and	17-08-2023 to 10-09-2023	

	□(n)). Moebius function and Moebius inversion formula.		
Unit-3	De Moivre's Theorem and its Applications. Expansion of trigonometrical functions. Direct circular and hyperbolic functions and their properties.	11-09-2023 to 05-10-2023	
Unit-4	Inverse circular and hyperbolic functions and their properties. Logarithm of a complex quantity. Gregory's series. Summation of Trigonometry series.	06-10-2023 to 07-11-2023	
Revision	Revision of the Syllabus	17-11-2023 to Exam	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Dr. Rahmaan Khan | Class: B.Sc.III (H)

Subject: Mathematics | Paper: Groups and Rings

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Definition of a group with example and simple properties of groups, Subgroups and Subgroup criteria, Generation of groups, cyclic groups, Cosets, Left and right cosets, Index of a sub-group Coset decomposition, Largrage's theorem and its consequences, Normal subgroups, Quotient groups	24-07-2023 to 16-08-2023	

Unit-2	Homeomorphisms, isomophisms, automorphisms and inner automorphisms of a group. Automorphisms of cyclic groups, Permutations groups. Even and odd permutations. Alternating groups, Cayley's theorem, Center of a group and derived group of a group.	17-08-2023 to 10-09-2023	
Unit-3	Introduction to rings, subrings, integral domains and fields, Characteristics of a ring. Ring homomorphisms, ideals (principle, prime and Maximal) and Quotient rings, Field of quotients of an integral domain.	11-09-2023 to 05-10-2023	
Unit-4	Euclidean rings, Polynomial rings, Polynomials over the rational field, The Eisenstein's criterion, Polynomial rings over commutative rings, Unique factorization domain, R unique factorization domain implies so is R[X1 , X2,……Xn]	06-10-2023 to 07-11-2023	
Revision	Revision of the Syllabus	17-11-2023 to Exam	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

CLASS:B.Sc.(Hons) Mathematics-II Year IIISem

NAME OF PAPER – Vector Calculus

PAPER CODE - BML-304

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Scalar and vector product of three vectors, product of four vectors. Reciprocal vectors. 2.Vector differentiation. 3.Scalar Valued point functions, vector valued point functions, 4.derivative along a curve, directional derivatives	24 July 2023 to 16 Aug. 2023	Test
Unit-2	Limit and continuity of real valued functions of two variables. Partial differentiation. Total Differentials; Composite functions & implicit functions. Change of variables. Homogenous functions & Euler's theorem on homogeneous functions. Taylor's theorem for functions of two variables. 1.Gradient of a scalar point function, geometrical interpretation of grad Φ , character of gradient as a point function. 2. Divergence and curl of vector point function, characters of Div $\vec{f}$ and Curl $\vec{f}$ as point function, examples. 3. Gradient, divergence and curl of sums and product and their related vector identities. 4.Laplacian operator.	17 Aug. 2023 to 10 September 2023	Assignment

Unit-3	1.Orthogonal curvilinear coordinates Conditions for orthogonality fundamental triad of mutually orthogonal unit vectors. 2.Gradient, Divergence, Curl and Laplacian operators in terms of orthogonal curvilinear coordinates, Cylindrical co-ordinates and Spherical co-ordinates of two variables. Lagrange's method of multipliers.	11 September 2023 to 5 Oct 2023	Test
Unit-4	1.Vector integration; Line integral, 2.Surface integral, Volume integral. 3.Theorems of Gauss, Green & Stokes and 4.problems based on these theorems.	6 Oct. 2023 to 7 November 2023	Test
Revision		17 November 2023 to till exam	

Lesson Plan

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

CLASS: B.Sc.(Hons) Mathematics-III Year V Sem

NAME OF PAPER – Programming in C & Numerical Methods

PAPER CODE - BML-503

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	1.Programmer's model of a computer, Algorithms, Flow charts, Data types, 2.Operators and expressions, Input / Output functions.	24 July 2023 to 16 Aug. 2023	Test
Unit-2	1.Decisions control structure: Decision statements, 2.Logical and conditional statements, Implementation of Loops, 3.Switch Statement & Case control structures. 4.Functions, Preprocessors and Arrays.	17 Aug. 2023 to 10 September 2023	Assignment
Unit-3	1.Strings: Character Data Type, Standard String handling Functions, Arithmetic Operations on Characters. 2.Structures: Definition, using Structures, use of Structures in Arrays and Arrays in Structures. Pointers: 3.Solution of Algebraic and Transcendental equations: Bisection method, Regula-Falsi method, Secant method, 4.Newton-Raphson's method. Newton's iterative method for finding pth root of a number.	11 September 2023 to 5 Oct 2023	Test
Unit-4	1.Simultaneous linear algebraic equations: Gauss-elimination method, Gauss-Jordan method, Triangularization method (LU decomposition method). Crout's method,	6 Oct. 2023 to 7 November 2023	Test

	2.Cholesky Decomposition method. Iterative method, Jacobi's method, Gauss-Seidal's method, Relaxation method.		
Revision		17 November 2023 to till exam	

Government College, Hansi

Unit wise Lesson Plan for Odd Semester 2023-24

Department: Mathematics

Name of Teacher: Santosh devi Class: B.A -II

Subject: Mathematics Lab-III

Unit	Description of Chapter / Topics	Duration
Unit-1	1.Programmer's model of a computer, Algorithms, Flow charts, Data types, 2.Operators and expressions, Input / Output functions.	4th week of July 1st week to 3rd week of August
Unit-2	1.Decisions control structure: Decision statements, 2.Logical and conditional statements, Implementation of Loops, 3.Switch Statement & Case control structures. 4.Functions, Preprocessors and Arrays.	4th week of August to 3rd week of September
Unit-3	1.Strings: Character Data Type, Standard String handling Functions, Arithmetic Operations on Characters. 2.Structures: Definition, using Structures, use of Structures in Arrays and Arrays in Structures. Pointers: 3.Solution of Algebraic and Transcendental equations: Bisection method, Regula-Falsi method, Secant method, 4.Newton-Raphson's method. Newton's iterative method for finding pth root of a number	4th week of September to 3rd week of October
Unit-4	Newton Forward Interpolation Method Newton Backward Interpolation Method Gauss Forward Interpolation Method Gauss Backward Interpolation Method	4th Week of October to till Exam

Lesson Plan Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Physical Education

Name of Teacher: Dr. Rajni Saini Class: B.A 1st

Subject: Physical Education

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Introduction of Physical education- Meaning, definition, scope, aim, objective, importance, misconception of physical education	24 July 2023 to 16 Aug. 2023	1st assignment in the 2nd week of August
Unit-2	Health and hygiene	17 Aug. 2023 to 10 September 2023	Minor Test in the 1st Week of September
Unit-3	Introduction of Yoga	11 September 2023 to 5 Oct 2023	2nd Assignment inthe Last Week of September
Unit-4	Human anotomy and physiology of cell, tissue, organ and system	6 Oct. 2023 to 7 November 2023	
Revision		17 November 2023 to till exam	

Lesson Plan Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Physical Education

Name of Teacher: Dr. Rajni Saini Class: B.A II

Subject :Physical Education

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Concept of safety education. Sports injury. Principals, prevention, general treatment for sports injury.	24 July 2023 to 16 Aug. 2023	1st assignment in the 2nd week of August
Unit-2	Common dieses- communicable and non communicable.	17 Aug. 2023 to 10 September 2023	Minor Test in the 1st Week of September
Unit-3	Concept of balanced diet.	11 September 2023 to 5 Oct 2023	2nd Assignment inthe Last Week of September
Unit-4	Anotomy and physiology of circulatory system.	6 Oct. 2023 to 7 November 2023	
Revision		17 November 2023 to till exam	

Lesson Plan Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Physical Education

Name of Teacher: Dr. Rajni Saini Class: B.A III

Subject: Physical Education

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Growth and development.	24 July 2023 to 16 Aug. 2023	1st assignment in the 2nd week of August
Unit-2	Concept of sports Organisation and Administration.	17 Aug. 2023 to 10 September 2023	Minor Test in the 1st Week of September
Unit-3	Concept of Posture.	11 September 2023 to 5 Oct 2023	2nd Assignment inthe Last Week of September
Unit-4	Anatomy and Physiology.	6 Oct. 2023 to 7 November 2023	
Revision		17 November 2023 to till exam	

Lesson Plan Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Physical Education

Name of Teacher: Dr. Rajni Saini Class: B.A 1st

Subject: Physical Education

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Introduction of Physical education- Meaning, definition, scope, aim, objective, importance, misconception of physical education	24 July 2023 to 16 Aug. 2023	1st assignment in the 2nd week of August
Unit-2	Health and hygiene	17 Aug. 2023 to 10 September 2023	Minor Test in the 1st Week of September
Unit-3	Introduction of Yoga	11 September 2023 to 5 Oct 2023	2nd Assignment inthe Last Week of September
Unit-4	Human anotomy and physiology of cell, tissue, organ and system	6 Oct. 2023 to 7 November 2023	
Revision		17 November 2023 to till exam	

Lesson Plan Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Physical Education

Name of Teacher: Dr. Rajni Saini Class: B.A II

Subject :Physical Education

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Concept of safety education. Sports injury. Principals, prevention, general treatment for sports injury.	24 July 2023 to 16 Aug. 2023	1st assignment in the 2nd week of August
Unit-2	Common dieses- communicable and non communicable.	17 Aug. 2023 to 10 September 2023	Minor Test in the 1st Week of September
Unit-3	Concept of balanced diet.	11 September 2023 to 5 Oct 2023	2nd Assignment inthe Last Week of September
Unit-4	Anotomy and physiology of circulatory system.	6 Oct. 2023 to 7 November 2023	
Revision		17 November 2023 to till exam	

Lesson Plan Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Physical Education

Name of Teacher: Dr. Rajni Saini Class: B.A III

Subject: Physical Education

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Growth and development.	24 July 2023 to 16 Aug. 2023	1st assignment in the 2nd week of August
Unit-2	Concept of sports Organisation and Administration.	17 Aug. 2023 to 10 September 2023	Minor Test in the 1st Week of September
Unit-3	Concept of Posture.	11 September 2023 to 5 Oct 2023	2nd Assignment inthe Last Week of September
Unit-4	Anatomy and Physiology.	6 Oct. 2023 to 7 November 2023	
Revision		17 November 2023 to till exam	

Government College Hansi
Unit wise Lesson Plan for session 2023-2024

Name of Teacher: **Babita Chaudhary** Class: **B.A. 1st Semester**
Subject: **Political Science** Paper: **Theory**

Unit	Description of Chapter/Topic	Duration	Assignment/Test
Unit 1	Indian Constitution	1st week of August to 4th week of August	Verbal Test
Unit 2	Union Executive and state executive	1st week of September 4th week of September	1st Assignment in 2nd week of September
Unit 3	Union Legislature and State Legislature	1st week of October to3rd week of October	Minor test in the 1st week of October
Unit 4	Judiciary	4th week of October to 2nd week of November	2nd Assignment in the 3rd week of October
Revision	Revision, problem solving	2nd and 3rd week of November	

Government College Hansi

Unit wise Lesson Plan for Odd Semester, 2023-2024

Name of Teacher: **Babita Chaudhary** Class: **B.A. 5th Semester**

Subject: **Political Science** Paper: **Theory**

Unit	Description of Chapter/Topic	Duration	Assignment/Test
Unit 1	Comparative Politics; Definition, nature and scope	1st week of August to 4th week of August	Verbal Test
Unit 2	Approaches to the study of Comparative Politics	1st week of September to 4th week of September	1st Assignment in 1st week of September
Unit 3	Constitutionalism	1st week of October to 3rd week of October	Minor test in the last week of September
Unit 4	Constitutional structure	4th week of October to 1st week of November	2nd Assignment in the 2nd week of October
Revision	Revision, problem solving	2nd and 3rd week of November	

Lesson Plan Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Psychology

Name of Teacher: Dr. Alka

Class: B.A 1st

Subject :Psychology

Paper: Introduction to Psychology

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Psychology : history, as science, subject matter Methods of psychology: experimental,observation, survey	24 July 2023 to 16 Aug. 2023	1st assignment in the 2nd week of August
Unit-2	Sensory processes: visual, auditory-structure andfunction of Eye and Ear. Perception: nature, perception of form-figure andbackground, perceptual organization, depth perception-cues.	17 Aug. 2023 to 10 September 2023	Minor Test in the 1st Week of September
Unit-3	Emotion: nature, bodily changes, theories-james-lange, cannon-bard, Schachter-singer. Motivation: nature ,biological and psychologicalmotives.	11 September 2023 to 5 Oct 2023	2nd Assignment inthe Last Week of September
Unit-4	Personality : nature, determinants and type and trait approach. Intelligence : nature, theories-spearman, Thurstoneand cattle.	6 Oct. 2023 to 7 November 2023	
Revision		17 November 2023 to till exam	

Lesson Plan Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Psychology

Name of Teacher: Dr. Alka Class: B.A IInd

Subject :Psychology Paper: Social Psychology

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Introduction: nature, subject matter, sociometricmethod. Socialization: nature, process and agents of socialization.	24 July 2023 to 16 Aug. 2023	1st assignment in the 2nd week of August
Unit-2	Group : types and functions, social norms:meaning, characteristics and formation. Leadership : type, function, theories-trait, situational and interactional.	17 Aug. 2023 to 10 September 2023	Minor Test in the 1st Week of September
Unit-3	Attitudes : characteristics, developmental and attitude change. Prejudice : nature, development and stereotypes.	11 September 2023 to 5 Oct 2023	2nd Assignment inthe Last Week of September
Unit-4	Prosocial behavior: nature, determinants, cognitivemodel. Aggression : nature, determinants and prevention.	6 Oct. 2023 to 7 November 2023	
Revision		17 November 2023 to till exam	

Lesson Plan Government College, Hansi

Unit wise Lesson Plan for ODD Semester 2023-24

Department: Psychology

Name of Teacher: Dr. Alka Class: B.A III

Subject : Psychology Paper: Psychopathology

Unit	Description of Chapter / Topics	Duration	Assignment / Test
Unit-1	Concept of normality and abnormality. Models of Psychopathology : biological, psychodynamic, behavioural and cognitive.	24 July 2023 to 16 Aug. 2023	1st assignment in the 2nd week of August
Unit-2	Classification of psychopathology : need forclassification, DSM system. Diagnostic Assessment : case history, interview projective techniques.	17 Aug. 2023 to 10 September 2023	Minor Test in the 1st Week of September
Unit-3	Anxiety based disorder: GAD, OCD, and phobicdisorders- symptoms and causes. Substance / drug abuse: causes, consequences andrehabilitation.	11 September 2023 to 5 Oct 2023	2nd Assignment inthe Last Week of September
Unit-4	Mood disorders : unipolar and biopolar-symptomsand causes. Schizophrenia : nature, types and casues.	6 Oct. 2023 to 7 November 2023	
Revision		17 November 2023 to till exam	