

# GOVT. NAVEEN GIRLS COLLEGE BAIKUNTHPUR

## DEPARTMENT OF CHEMISTRY

### Course outcome

B.Sc. - 1

Subject - Chemistry

Paper -1 (Inorganic chemistry)

Unit - 1 (A) Atomic structure

1. Students will be able to understand atomic structure on the basis idea of de-Broglie matter waves, Heisenberg uncertainty principle, Schrödinger waves equation, radial and angular wave functions and probability distribution curves.
2. Students will learn about quantum numbers, hunds rule, aufbau and Pauli exclusion principle, atomic orbital shapes of S,P,D orbitals.
3. Student will know about the electronic configuration of elements and calculate EAN.

(B) Periodic properties

4. Students will know about the periodic trends in periodic table and their application.

Unit - 2 Chemical Bonding -1

1. Students will be able to understand Ionic bond, ionic solids, ionic structures radius ratio & co-ordination number and radius ratio rule.
2. Student will learn about lattice defects, semiconductors, lattice energy born-Haber cycle, Solvation energy and solubility of ionic solids.
3. Student will know about polarizing power & Polarisability of ions, fajans rule, ionic character in co - valent compounds.
4. Student will be able to understand bond moment and dipole moment, Percentage ionic character from dipole moment and electronegativity difference, metallic bond - free electron, valence bond & bond theories.

Unit - 3 Chemical bonding - 2

1. Student will be able to understand the co-valent bond, valence bond theory and its limitation.
2. Students learn about the concept of hybridization.
3. Student will learn about valence shell electron pair repulsion theory (VSEPR), Molecular orbital theory, bond order and bond strength.
4. Student will know about the molecular orbital diagrams of diatomic and simple polyatomic molecules  $N_2$ ,  $O_2$ ,  $F_2$ ,  $CO$ ,  $NO$  etc.

#### Unit - 4

##### A. S-Block elements

1. Student - will be able to understand general concepts of group relationships and gradation properties.
2. Student will learn about the comparative study of S- block elements and salient features of hydrides, solvation & complexation tendencies their function in bio system and alkyl & aryls, derivatives of alkali and alkaline earth metals.

##### B. P-Block elements

3. Student will know about the general concepts on group relationship halides, hydrides, oxides and oxy acids of boron, Aluminum, Nitrogen and phosphorus.
4. Student will be able to understand Boranes, boranides, fullerenes, graphene and silicates, inter halogens and pseudo halogens.

#### Unit - 5

##### A. Chemistry of Noble gases

1. Students will learn about chemical properties of the Noble gases, chemistry of xenon, structure, bonding in xenon compounds.

##### B. Theoretical Principles in Qualitative analysis

2. The student will know about the basic principle involved in the detection of acids and radicals including interfering radicals.
3. The students will know about the basic principle involved in the analysis of cations and anions and solubility product and common ion effect.

4. Students will know about the principles involved in separation of cation into group and choice of group reagents.

### Conclusions :-

Student will learn about the atomic structures periodic properties , chemical bonding, S and P block elements, Noble gases and theoretical principles in qualitative analysis.

### **Bsc – 1**

#### **paper - 2 Organic chemistry**

##### Unit -1 Basic organic chemistry

1. Student will be able to understand hybridization, shapes of molecule, electronic displacements, Inductive Electromeric, Resonance and Mesomeric effects.
2. Student will learn about hyper conjugation and their applications.
3. students will learn about Dipole moment, electrophiles and Nucleophiles, Nucleophilicity and Basicity.
4. Student will learn homolytic cleavage and heterolytic cleavage, shape and relative stability of carbocations.
5. Student will be able to understand carbanions, free Radicals, carbenes and Nitrenes.
6. Student will know about types of organic reaction, Addition, Elimination and substitution reactions.

##### Unit - 2 Introduction to stereochemistry

- 1 . Student will be able to understand stereo chemistry, Optical isomerism, Optical activity, specific rotation, chirality.
2. Student will learn about Enantiomers , molecules with two or more chiral centres, Diastereomers, meso compounds.
3. Student will know about Relative and absolute configuration, Fischer newmann, and sawhorse projection formulae and their inter conversions.
4. Students will learn about Erythrose and threose , D/L System of nomenclature, Cahn - in gold- Prelog system of nomenclature ( C.T.P. Rules).
5. Student will know about R/S nomenclature, Geo metrical isomerism, cis - trans, syn - anti and E/Z notations.

### Unit - 3

#### Conformational Analysis of Alkanes

1. Student will be able to understand Conformational analysis of alkanes, ethane , butane, cyclohexane and sugars, relative stability and energy diagrams.
2. Student will learn about types of cycloalkanes and their relative stability.
3. Student will know about baeyer strain theory, theory of strainless rings, chair, boat and twist boat conformation of cyclohexane with energy diagrams.
4. Student will know about relative stability of mono - substituted cycloalkanes and disubstituted cyclohexane.

### Unit - 4

#### Chemistry of Aliphatic Hydrocarbons

##### A . Carbon - carbon sigma bonds

1. Student will be able to understand chemistry of alkanes, formation of alkanes.
2. Student will know about wurtz reaction, wurtz fittig reaction, free radical substitutions reactions.
3. Student will learn about - Halogenations - relative reactivity and selectivity

##### C. Carbon - carbon pi bonds

4. Student will be able to understand formation of alkenes, alkenes by elimination reaction.
5. Student will know about mechanism of  $E_1$   $E_2$  and  $E1CB$  reactions , saytezeff and Hafmann - elimination.
6. Student will learn about - reaction of alkenes, electrophilic additions and mechanism (Markownikoff, Anti markownikoff addition)
7. Student will know about mechanism of oxy mercurarion - demercuration , hydro boration- oxydation , reduction, syn and anti - hydroxylation.
8. Student will learn about 1,2 and 1,4 addition reactions in conjugated dienes, Diels - Alder reaction Allylic and benzylic bromination and mechanism.
9. Student will be able to understand Alkenes, reaction of alkenes ,Acidity, Electrophilic and **Nucleophilic** addition, hydration of form carbonyl compounds.

### Unit - 5

### Aromatic Hydrocarbons

1. Student will be able to understand the Aromatic hydrocarbons, Aromaticity , huckels rule, aromatic character of arenes.
2. Student will know about cyclic carbocations, cyclic carbanions, hetrocyclic compounds with suitable examples.
3. Student will learn about Electrophilic aromatic substitution halogenation, nitration, sulphonation and friedal - crafts alkylation, alcylation with their mechanisms.

### Conclusions :-

Student will be able to understand the basic organic chemistry, stereochemistry , conformational analysis of alkenes, aliphatic hydrocarbons Aromatic hydrocarbons etc.

## **Paper - 3**

Subject - physical chemistry

### **unit- 1 Mathematical concept for chemist**

1. Student will be able to understand basic mathematical concepts, Logarithmic relations, curve sketching, linear graphs, properties of straight line , slope and intercept.
2. Student will know about functions, differentiation of functions ordinary differential equations, vectors and matrices.
3. Student will learn about determinates permutation and combination and probability theory.
4. Student will know about significant figures and their applications.

### **unit- 2**

#### Gaseous state chemistry

1. Student will be able to understand kinetic molecular model of gas, postulates and derivation of the kinetic gas equation, collision frequency, collision diameter, mean free path.
2. student will know about maxwell distribution and its use, average kinetic energy, law of equipartition of energy.
3. Student will learn about joule - thomson effect.
4. Student will learn about Liquification of gases, behavior of real gases, deviations from ideal gas behavior, compressibility factor ( $z$ ) and its variation with pressure and temperature for different gases.
5. Student will know about Vander walls equation of state, critical state, relation between critical constants and Vander walls constants and law of corresponding states.

### Unit- 3

#### A. Liquid state chemistry

1. Student will be able to understand the Intermolecular forces, magnitude of intermolecular force, structure of liquids.
2. Student will know about properties of liquids, viscosity and surface tension.

#### B. Colloids and surface chemistry

3. Student will learn about the colloids, classification of colloids, optical kinetic and electrical properties of colloids, application of colloids.
4. Student will know about coagulation hardy Schulze law, Gold number, Emulsion, Micelles and types of micelles.
5. Student will learn about Gel, physical adsorption, chemisorptions, adsorption isotherms, and qualitative discussion of BET.

### Unti- 4

#### Solid state Chemistry

1. Student will be able to understand nature of the solid state, law of interfacial angles, law of rational indices, miller indices.

2. Student will know about Elementary ideas of symmetry , symmetry elements and symmetry operations.
3. Student will learn about qualitative idea of point and space groups, seven crystal systems and fourteen bravais lattices.
4. Student will be able to understand x- ray diffraction, Braggs law, powder pattern method and crystal defects.

## Unit -5

### A. Chemical kinetics

1. Student will know about rate of reaction, factors influencing rate of reaction, rate law, rate constant, order and molecularity of reactions.
2. Student will learn about zero, first and second order reactions.
3. Student will be able to understand the rate and rate law methods of determining order of reactions, chain reactions.
4. Student will know about Arrhenius theory, physical significance of activation energy.
5. Student will know about collision theory, demerits of collision theory, non mathematical concept of transition state theory.

### B. Catalysis

6. Student will know about homogeneous and heterogeneous catalysis, types of catalysts, characteristics of catalyst.
7. Student will learn about enzyme catalysed reaction, micellar catalysed reactions and industrial applications of catalysis.

### Conclusions :-

student will be able to understand the gaseous state chemistry, liquid state chemistry, solid state chemistry, mathematical concept for chemist, chemical kinetics and catalysis etc.

## Course Outcome

Class - Bsc - 2

Subject - chemistry

Paper - 1 (Inorganic chemistry )

### UNIT -1 Chemistry of transition series elements

1. Student will be able to understand transition elements , position in periodic table, electronic configuration.
2. Student will know about general characteristics atomic and ionic radii, variable co-ordination state, ability to form complexes.
3. Student will learn about formation of colored ions, magnetic moment  $H_2O$  and off and catalytic behavior.
4. Student will know about general comparative treatment of 4d and 5d elements with their 3d analogues with respect to ionic radii, oxidation state and magnetic properties.

### UNIT - 2

#### A. Oxidation and reduction

1. Student will be able to understand oxidation, reduction, Redox Potential, electrochemical series and its applications.
2. Student will know about principles involved in extraction of the elements.

#### B. Co - Ordination Compounds

3. Student will learn about co-ordination compounds, Werner's theory and its experimental verification.
4. Student will know about IUPAC nomenclature of co-ordination compounds, isomerism in co - ordination compounds.
5. Student will be able to understand stereochemistry of complexes with 4 and 6 co- ordination numbers, chelates, polynuclear complexes.

### UNIT - 3

#### Co- Ordination chemistry

1. Student will know about valence bond theory, electro neutrality principle and back bonding.



2. Student will be able to understand crystal field theory, crystal field splitting and stabilization energy.
3. Student will learn about measurement of  $\Delta_o$ , CFSE in weak and strong fields. pairing energies.
4. Student will know about factors affecting the magnitude of  $\Delta_o$  Octahedral vs tetrahedral co-ordination.

#### UNIT - 4

##### A. Chemistry of lanthanides elements

1. Student will be able to understand lanthanides elements, electronic structure, oxidation states, and ionic radii.
2. Student will know about lanthanide contraction, complex formation, occurrence and isolation.

##### B. Chemistry of Actinides

3. Student will be able to understand Actinides, General features and chemistry of actinides.
4. Student will know about chemistry of separation of Np, Pu, Am from uranium.
5. Student will learn about similarities between the later actinides' and the later lanthanides.

#### UNIT 5

##### A. Acids – bases

1. Student will know about acids and bases, Arrhenius equation, Bronsted – Lowry concept.
2. Student will learn about conjugate acids and bases, relative strength of acid and bases.
3. Student will be able to understand the Luxford, solvent system and Lewis concepts of acids and bases.

##### B. Non - Aqueous Solvents

4. Student will know about physical properties of a solvents and their general characteristics.
5. Student will learn about reaction in non - aqueous solvents with reference to liquid ammonia and liquid  $\text{SO}_2$  ,  $\text{HF}$  ,  $\text{H}_2\text{SO}_4$  ionic liquids.

#### Conclusions :-

Student will be able to understand the chemistry of transition series elements, oxidation and reduction , coordination compounds, coordination chemistry, Lanthanides, Actinides, acid bases and non aqueous solvents etc.

#### **Bsc -2**

**subject - chemistry**

**paper - 2 Organic chemistry**

unit -1 Chemistry of Organic halide

1. Student will learn about alkyl halides, methods of preparation, Nucleophilic substitution reactions  $\text{S}_\text{N}1$  ,  $\text{S}_\text{N}2$  and  $\text{S}_\text{N}1$  Mechanism with stereo chemical aspects.
2. Student will know about effect of solvent nucleophilic substitution, elimination reactions.
3. Student will be able to understand the aryl halides, preparation from , Diazonium salts, nucleophilic aromatic substitution reaction, Benzyne mechanism.

unit - 2

#### A. Alcohols

1. Student will know about the Alcohols, nomenclature preparation and properties.
2. Student will learn about reactivity of  $1^\circ$  ,  $2^\circ$  ,  $3^\circ$  , alcohols, Bouvaelt - blanc reduction for the preparation of alcohols.
3. Student will know about Dihydric alcohols, methods of preparation , chemical reactions of oxidative cleavage and pinacol-pinacolone rearrangement.

## B. Trihydric alcohol

4. Student will be able to understand trihydric alcohols nomenclature method of formation and chemical reaction of glycerol.

## Phenols

5. Student will know about phenol. preparation of methods, Nomenclature, bonding, physical and chemical properties.
6. Student will learn about acidic character comparative acidic strength of alcohols and phenols, acylation and Carboxylation.
7. Student will be able to understand the mechanism of Fries rearrangement, Claisen rearrangement, Gattermann synthesis, Hauben-Hoesch reaction, Lederer-Mannich and Reimer-Tiemann reaction.

## Unit - 3

### Aldehydes and ketones

1. Student will be able to understand the introduction of aldehyde and ketone, Nomenclature, structure preparation of methods, physical and chemical properties.
2. Student will know about reactivity of carbonyl group, mechanism of nucleophilic addition to carbonyl group. like Benzoin, Aldol, Perkin, Knoevenagel condensation.
3. Student will learn about condensation with ammonia and its derivatives, Wittig reaction, Mannich reaction, Beckmann and Benzil-Benzilic rearrangement.
4. Student will know about Baeyer-Villiger oxidation of ketone, Cannizzaro reaction, MPV, Clemmensen reaction, Wolf-Kishner reaction,  $\text{NaBH}_4$ ,  $\text{LiAlH}_4$  reduction.

## Unit - 4

### A. Carboxylic Acids

1. Student will be able to understand the carboxylic acids, structure, bonding, preparation, physical and chemical properties.
2. Student will know about acidity of carboxylic acids, Hell-Volhard-Zelinsky reaction, reduction of carboxylic groups.
3. Student will learn about Di carboxylic acids, methods of formation and effect of heat.

### B. Carboxylic acid derivatives

4. Student will know about carboxylic acid derivative like acid chlorides, esters, amides and acid anhydrides etc.
5. Student will be able to understand structure of carboxylic acid derivatives, mechanism, physical and chemical properties, inter conversion of acid derivatives by nucleophilic acyl substitution.

## Unit - 5

### Organic compounds of Nitrogen

1. Student will know about Nitroalkanes and Nitroarenes, preparation of methods, physical and chemical properties.
2. Student will learn about mechanism of nucleophilic substitution in nitroarenes and their reduction in acidic, neutral and alkaline medium.
3. Student will know about Amine, preparation of method reactivity, structure, nomenclature, physical and chemical properties.
4. Student will know about stereochemistry of amines, separation of mixture of primary secondary and tertiary amines.
5. Student will learn about structural features affecting basicity of amines. preparation of alkyl and aryl amines.
6. Student will be able to understand Azo coupling, Gabriel - phthalimide reaction, Hofmann Bromamide reaction etc.

### Conclusions:-

Student will be able to understand the chemistry of organic halide , alcohols phenols, aldehyde, ketone, carboxylic acid, carboxylic acid derivative and organic compounds of Nitrogen etc.

**Bsc - 2**

**Subject - chemistry**

**Paper - 3 physical chemistry**

Unit - 1

A. Thermodynamics -1

1. Student will be able to understand the zeroth law of thermodynamics , closed and open system.
2. Student will know about first law of thermodynamics concept of heat, work, internal energy and statement of first law.
3. Student will learn about enthalpy, relation between heat capacities, joule thompson expansion.

B. Thermo chemistry

4. Student will know about thermo chemistry laws of thermo chemistry heat reaction, Enthalpy of formation of molecules and ions and Enthalpy of combustion and its applications.
5. Student will learn about calculation of bond energy, bond dissociation energy and resonance energy from thermo chemical data and Kirchhoff's equation.

Unit - 2

Thermodynamics - 2

1. Student will know about second law of thermodynamics, statement of carnot's cycle and efficiency of heat engine.
2. Student will learn about the carnots theorem, entropy change in a reversible and irreversible process.

3. Student will be able to understand gibbs and Helmholtz free energy , gibbs - Helmholtz equation, maxwell relation and third law of thermodynamics.

### Unit - 3

#### A. Chemical Equilibrium

1. Student will know about the chemical equilibrium, thermodynamic derivation of relation between. Gibbs free energy of reaction and reaction quotient.
2. Student will learn about the coupling of exergonic and endergonic reaction , thermodynamic derivation of relation between the various equilibrium constants  $K_p$ ,  $K_c$  and  $K_x$ .

#### B. Ionic Equilibria

3. Student will know about ionization of weak acids and bases, ph scale, commonion, effect ; dissociation constants of mono protic acids.
4. Student will learn about salt hydrolysis calculation of hydrolysis constant degree of hydrolysis and pH for different salt.
5. Student will be able to understand the buffer solution ; derivation of Henderson equation and its applications.

### Unit - 4 Phase Equilibrium

1. Student will know about the phase rule, derivation of gibbs phase rule, clausius - claperon equation and its applicatin.
2. Student will learn about the limitation of phase rule, applications of phase rule to one component system : water system and sulphur system.
3. Student will be able to understand the application of phase rule to two component system : pb Ag system , zn - mg system, ferric chloride- water system.
4. Student will know about the three component system : solid solution liquid pairs.
5. Student will learn about the nernst distribution law. Henry's law and its application and solvent extraction

## Unti - 5 Photochemistry

1. Student will be able to understand the Lambert's Beer's law and its limitations.
2. Student will know about the characteristics of electromagnetic radiation, law of photochemistry; Grothus - Drapper law, Stark - Einstein law.
3. Student will learn about the differential rate of photochemical reactions.
4. Student will know about the role of photochemical reaction in biochemical process.

### Conclusions:-

Student will be able to understand thermochemistry, thermodynamics, chemical equilibrium, ionic equilibria, phase equilibrium and photochemistry etc.

## Course Outcome

**Class B.Sc. - 3**

**Subject - Chemistry**

**Paper - Inorganic chemistry**

Unit - 1 Metal - Ligand Bonding in Transition metal complexes.

1. Student will be able to understand the limitation of valence bond theory and elementary of crystal field theory.
2. Student will know about the crystal field splitting in octahedral, tetrahedral and square planar complexes.
3. Student will learn factors affecting the crystal field parameters, thermodynamic and kinetic aspects of metal complexes.
4. Student will know about the substitution reactions of square planar complexes.

Unit - 2 magnetic properties of transition metal complexes.

1. Student will be able to understand the types of magnetic behavior, methods of determining magnetic susceptibility, spin only formula, L-S coupling.

2. Student will know about the orbital contribution to magnetic moments data for 3d metal complexes.
3. Student will learn about the Electronic spectra of transition metal complexes, types of electronic transitions.
4. Student will know about selection rules for d-d transitions spectroscopic ground states, spectro - chemical series.
5. Student will learn about Orgel - energy level diagram for  $d^1$  and  $d^2$  states.

#### Unit - 3 Organometallic chemistry

1. Student will be able to understand the definition Nomenclature and classification of organometallic compounds.
2. Student will know about the preparation , properties bonding and applications of alkyls and aryls of Li, Al, Hg , Sn & Ti.
3. Student will know about the homogeneous hydrogenation , mononuclear carbonyls and nature of bonding in metal carbonyls.

#### Unit - 4 Bio inorganic chemistry

1. Student will be able to understand the Essential and trace elements in biological processes.
2. Student will know about the metalloporphyrins with special reference to hemoglobin and myoglobin.
3. Student will be able to understand the biological role of alkali and alkaline earth metals with special reference to  $Ca^{2+}$  and Nitrogen fixation.

#### Unit - 5 Hard and soft acids and Bases (HSAB)

1. Student will know about the classification of acids and bases as hard and soft.
2. Student will learn about the acid - base strength and hardness and softness.
3. Student will know about silicenes and phosphazenes.
4. Student will learn about silicenes and phosphazenes as examples of inorganic polymer, nature of bonding in triphosphazenes.

Conclusion:- Student will be able to understand the metal ligand bonding in transition metal complexes, magnetic properties of transition metal



complexes, magnetic properties of transition metal complexes, Organometallic chemistry, bio inorganic chemistry and hard and soft acids and bases.

**Class - B.Sc. - 3**

**Subject - Chemistry**

**Paper - Organic chemistry**

Unit - 1 Organ metallic compounds

1. Student will be able to understand the Organo magnesium compound, formation, structure and chemical reactions.
2. Student will know about Grignard reagent formation, structure and chemical reactions.
3. Student will learn about organozinc, organolithium compounds formation and chemical reaction.
4. Student will know about organo sulphur compounds, Nomenclature , Structural features methods of formation and chemical reactions of thiols.
5. Student will know about the thioethers, sulphonic acid acids sulphonamides and sulphaguanidine formation of method, chemical properties etc.
6. Student will learn about the elaisen condensation, keto-enol tautomerism of ethyl acetoacetate.

Unit -2 Biomolecules

A. Carbohydrate

1. Student will be able to understand the carbohydrates, configuration of monosaccharide's, threo and erythro diastereomers.
  2. Student will know about the classification of carbohydrates, Enantiomers, epimers, epimerization.
  3. Student will learn about the killiani - fischer synthesis, lobry de - bruynvan Eckenstien rearrangement, osazone formation etc.
- B. Proteins and Nucleic acids
4. Student will know about the proteins classification and structure.

5. Student will learn about the protein denaturation / renaturation constituents of amino acids, ribonucleosides and ribonucleotides.
6. Student will know about the double helical structure of DNA.

### Unit - 3

#### A. Synthetic Polymers

1. Student will be able to understand the polymers, types of polymers, classification etc.
2. Student will know about the addition or chain growth polymerization. free radical vinyl polymerization, zeigler - natta polymerisation , condensation or step growth polymerisation.
3. Student will learn about the polyesters, polyamides, phenols - formaldehyde resin, urea - formaldehyde resins and polyurethanes, natural and synthetic rubbers.

#### B. Synthetic dyes

4. Student will know about the colour and constitution , classification of dyes, chemistry of dyes.
5. Student will learn about the chemistry and synthesis of methyl orange, congo, red. crystal violet, phenolphthalein, fluorescein, Alizarine and indigo etc.

### Unit - 4 Spectroscopy

1. Student will be able to understand the mass spectroscopy, infra red spectroscopy , IR absorption band, position and intensity etc.
2. Student will know about the UV- visible spectroscopy, Beer Lambert's law introduction of Anthocyanin as natural colouring matter.
3. Student will learn about the application of mass ,IR, UV visible spectroscopy to organic molecules.

### Unit - 5 NMR SPECTROSCOPY

1. Student will be able to understand the NMR spectroscopy, Introduction to NMR, shielding and number of signals in PMR, chemical shift and characteristic values.
2. Student will know about the splitting of signals and coupling constant and application to organic molecules.

3. Student will learn about the B CMR spectroscopy, principle, application and MRI etc.

Conclusions:-

Student will be able to understand the organic metallic compound, organosulphur compounds, enolates . biomolecules carbohydrates, proteins , nucleic acids, synthetic polymers dyes, mass spectroscopy IR spectroscopy visible spectroscopy NMR spectroscopy <sup>13</sup> C CMR Spectroscopy and MRI etc.

**B.Sc. - 3**

**Subject - chemistry**

**paper - physical chemistry**

unit - 1 Quantum mechanics

1. Student will be able to understand the black body radiation, planks radiation law, photoelectric and compton effect etc.
2. Student will know about the de -Broglies idea of matter waves, experimental verification heisenbergs uncertainty principle, sinusoidal wave equation etc.
3. Student will learn about the Hamiltonian operator, angular momentum operator, laplacian operators postulate of quantum mechanics eigen values Eigen function.
4. Student will know about the Schrödinger time independent wave equation, application and particle in one dimensional box hydrogenation radial wave function and angular wave function.

unit - 2

Quantum mechanics - 2

1. Student will be able to understand the Quantum mechanical approach of molecular orbital theory, forming of M.O and A.O' LCAO approximation, formation of  $\sigma_2^+$  ion.
2. Student will know about the valence bond model of  $\sigma^2$  , coparison of M.O and V.B. model.
3. Student will learn about the Huckel theory and application of Huckel theory to ethane propane etc.

### Unit - 3 Spectroscopy -1

1. Student will know about the spectroscopy introduction characterization of electro magnetic radiation, regions of the spectrum ,intensity of spectral transition, intensity of spectral transition energy level of rigid rotator and selections rule.
2. Student will know about the vibrational spectra, vibrating diatomic molecules etc.
3. Student will learn about energy levels of simple harmonic oscillator, selection rule, diatomic vibrating operator , anhormonic oscillator etc.
4. Student will know about the vibrational raman spectra, application of raman spectra.

### unti - 4 Spectroscopy - 2

1. Student will be able to understand the electronic spectra of diatomic molecule, frank london principle etc.
2. Student will know about the types of electronic transition applications of electronic spectra.
3. Student will learn about the photochemistry interaction of radiation with matter differences between thermal and photochemical process.
4. Student will know about the laws of photochemistry grothus - drapper law, stark- Einstein law, jablonski diagram etc.

### Unit- 5 Thermodynamics

1. Student will be able to understand the energy referred to absolute zero , third law of thermodynamics , nernst heat theorem, application and limitation of nernst heat theorem.
2. Student will know about the classius - mosotti equation , dipole moment , magnetic properties, parmagentism of magnetic susceptibility etc.

### Conclusions:-

Student will be able to understand the Qunatum mechanics , spectroscopy and Thermodynamics etc.

# DEPARTMENT OF BOTANY

## Course outcome

B.Sc. First year

### Paper -1

Unit - 1 VIRUS:- The students will understand the general character and various types of virus. they will learn the basic concept of virus and their economic important .

Student will be able some viruses – viriods, viruoids . prions.

unit - 2 Bacteria :- The student will be able to the basic structure of bacterial cell and gram negative and gram positive bacteria.

They will learn Reproduction of bacteria like this vegetative, asexual reproduction the basic concept of microbial biotechnology student will be able to the some bacteria rhizobium , Azatobactor.

Unit - 3 Fungi :- student will be able to understand classification , nutrition , structure and infection cycle of fungi.

They learn some fungi like this saprolagnia albugo, Aspergillums , peziza etc and their economic importance.

Unit - 4 Algae :- Student will be develop understand about the identification classification reproduction and economic importance of algae nostoc, gloeocospa, volvox, Oedogonium , vaucheria, chara, ectocarpus, polysiphonia.

Unit - 5 Lichens :- Student will be able to learn general account types structure, reproduction and economic importance of lichens.

They will understand blue green algae in nitrogen economy of soil and reclamation of ushar land.

They learn basic concept of mushroom biotechnology.

Conclusion:- Overall student will learns about vorins concept of algae, fungi, lichens, reproduction of fungi, life cycle etc.

## Course outcome

**B.Sc. First year**

**Paper -2**

Unit - 1 Bryophyta :- Student will be able to learn about the structure, morphology , reproduction of some selected bryophytes .

Learn about importance of plant diversity. They learn about of general account, morphology, classification, anatomy and reproductive structure in riccia, marchantia, peltia etc,

Unit - 2 Pteridophytes :- Student will be learn about the general character and systematic position, occurrence, morphology, economic importance and classification of pteridophytes concept of heterospory and seed habit

Unit - 3 :- Student will be understand about the structure and reproduction of some selected species of pteridophytes.

They will be able to learn important characteristics, anatomy reproduction and evolution along with economic importance. of these two groups.

Unit - 4 Gymnosperm :- Student will be able to understand the general classification , morphology, anatomy and reproduction in gymnosperm.

learn the some gymnospermic plant cycas, pinus , ephedra,

Unit - 5 Palaeobotany :- The students will be understand the relationship of complementary metabolic pathway such as photosynthesis in energy acquisition. Student will be able to learn few representation of fossil forms.

Study of some fossil gymnosperms.

Conclusion :- Overall student will be able to learn about the plant diversity.

They learn morphological, physiological ,Anatomical structure of bryophytes , pteridophytes gymnosperms.

## Course outcome

**B.Sc. second year**

**Paper -1**

Plant taxonomy. Economic botany, plant anatomy and Embryology

Unit - 1 Plant taxonomy :- Student will be learn the bentham and hookers classification of plant and learn the herbarium technique.

important botanical garden and herbarium of india.

unit - 2 Student will be understand various families and its economic importance.

they learn systemetic position and distinguishing character various families.

unit -3 Economic botany :- Student will be learn about various plants and its family part used and uses of following important plants.

they will learn fiber yielding plant, timber plant, medicinal plant , food plant, fruit plant, spices and beverages.

Unit- 4 Plant Anatomy :- The student will learn about the basic concept in anatomy understand the root and shoot apical meristem , theories of root and shoot apex organization.

they learn the primary structure of stem and anatomy and secondary growth in Dracona, Bignonia leptadenia.

Unit - 5 Embryology:- Student will understand the basic concept of embryology. and enlightened about the mechanism of pollination and basic structure of the embryo.

they learn flower as a reproductive organ like these microsporogenesis and megasporogenesis, male and female gametophyte. various concept of reproductive organs.

Conclusion :- Overall student will learns about various concept of plant taxonomy, economic botany plant anatomy and Embryology.

### Course outcome

**B.Sc second year**

**Paper -2**

Ecology and plant phiology.

Unit-1 The student will be learn basic concert of ecology introduction and scope & ecology. They understand how to Analysis soil profile low of minimum. Shelfords low of tolerance. Student will be learn the various type of plant like this hydrophytes, xerophytes , epiphytic.

Unit - 2 Student will be able to understand concepts and principles of ecology, biological diversity, conservation, population, community and ecosystem structure and function.

They learn energy flow in ecosystem concept of ecological pyramid.

They understand biogeochemical cycle.

Unit - 3 Plant water relation :-

Student will be able to learn the basic concept of plant water relation. Like these diffusion, permeability, osmosis, imbibition, plasmolysis they learn the theories of ascent of sap, absorption of water. Student will be able to learn mechanism of stomata, stomatal movement, factors affecting transpiration.

Unit - 4 photosynthesis:-

Student will be able to learn concept of photosynthesis.

They understand light reaction and mechanism of ATP synthesis, C<sub>3</sub>, C<sub>4</sub> and CAM pathway of carbon reduction.

Respiration:- Student will be able to learn the basic types of respiration and glycolysis and Krebs's cycle.

Unit - 5 Plant growth hormones :-

Student will be able to learn the various types of plant growth hormones like these Auxin, gibberellins, cytokinins, ethylene and abscisic acid.

They understand physiology of flowering, concept of photoperiodism and vernalization.

Conclusion:- Overall student will learn about various concepts of plant growth hormones, physiology of flowering and seed dormancy and germination.

### Course outcome

B.Sc. Third year

Paper -1

Unit - 1 :- Plant water relation:- Student will be able to learn the basic concept of plant water relation like this diffusion, permeability, osmosis, imbibition, plasmolysis,



They learn the theories of ascent of sap and absorption of water.

#### Unit - 2 Transport of Organic substance :-

Student will be able to understand the basic concept of enzymology like this nomenclature, classification and basic type & of enzyme.

They understand the photosynthesis and basic part of photosynthesis. acquire knowledge of photosynthesis the  $C_3$  G and cam cycle in photosynthesis.

Unit - 2 Respiration:- Student will be able to learn they will be understand kreb's cycle redox potential, pentose phosphate pathway.

They will be able to understand concept of nitrogen fixation and oxidation saturated and unsaturated fatty acid.

#### Unit - 4 Growth and development :-

Student will be able to understand definition and phases of growth and development, seed dormancy, mechanism of seed germination basic concept of photoperiodism, and physiology of flowering.

They will be able to learn various types and concept of plant growth hormones like this Auxins, gibberellins, cytokinins, ABA. They developing the mechanism of phytochrome and cryptochrome.

Unit - 5 Genetic engineering and biotechnology :- Student will be able to learn the basic principle and modern age applications and recombinant DNA technology.

Conducting experiment and analysing experimental data. techniques of gene mapping and cDNA library.

### Course outcome

**B.Sc. third year**

**Paper -2**

#### Unit - 1 :- Plant and environment

Students will be able to understand the study of plant ecology.

They will be learn concept of soil profile study morphological, anatomical and physiological responses of plants and water developing the concept of light, temperature and salinity.

Unit - 2 :- Community ecology :-

Student will be able to understand the characteristics frequency density of community.

Ecosystem :- Student will be able to learn the structure and biotic and abiotic components of ecosystem. They will be learn food chain, food web and structure of ecological pyramid. learn the basic concept of biogeochemical cycle.

Unit - 3Population ecology :- Student will be learn the concept of biogeographic region of india.

They learn - various forest and grass land

Unit - 4 :- Utilization of Plant :- Student will be learn various type of food yielding, fiber and oil producing plants. like this - rice, wheat , maize, cotton jute,Ground nut, mustard and coconut.

They understand the general account of source of firewood, timber and bamboos,

Unit - 5 :- Spices, medicinal plant, beverages :-

Student will be learn the general account of some spices production plant and some medicinal plant.

They learn will be learn general account of beverages

Conclusion :- Overall students will be able to understand about concept of ecology, various food producing fiber producing plant. Components of ecosystem population ecology.

# DEPARTMENT OF ZOOLOGY

## Course outcome

### Bsc. 1 st year Zoology

#### **Paper – 1 Cell biology and non- chordate**

Unit - 1 :- The student will learn that - the cell organization of new extra nuclear and nuclear.

Unit-2 :- Student will be understand the cell division an elementary idea of cancer cell & cell transformation .An elementary idea of immunity.

Unit -3 :- Student will be able to learn about general character and classification of phylum- protozoa type study paramecium. porifera, type stud, sycon. coelenterata - obelia.

Unit -4 :- Student will be know the general character & classification of phylum platy helmenthies, nematohelmenthies, annelida and arthropoda up to order.

Unit - 5 :- Understand the general characters & classification of phylum mollusca and echinodermata -a up to order.

Conclusion :- Student will be understand the cell organism cell divison & elementary idea of immunity they also know about classification of phylum. protozoa, porifera mollusca , coelenterata & echinodermata.

#### **Paper - 2 nd Chordata and embryology**

Unit 1:- Student will be understand the classification of hemichordata, classification of chordata proto chordata, A comparative account of Petromyzon & myxin.

Unit 2:- Student will be know about fishes - skins scale, migration & parenteal care, Amphibia - parenteal care & neoteny ,Reptelia - poisonous and non- poisonous.

Unit 3:- The student will be learn about birds flight adaptation , migration & perching mechanism, mammals - comparative account.

Unit 4:- Student will be understand the fertilization Gametogenesis structure of gamet, cleavage Development of frog upto formation of three layer.

Conclusion :- Student will be learn about to hemichordata & chordsa fishes amphibian & reptiles among that flight adaption migration & gametogenesis , embryonic induction and regeneration.

**Bsc - 2 nd year**

**Paper -1**

**Anatomy and physiology**

Unit 1:- Student will be learn about integument scale hair & alimentary canal & digestive system in vertebrates, Respiratory organs. like lung gills ,air sac in bird.

Unit 2:- Student will be understand the endoskeleton axial skeleton, appendi cular girdle, circulatory system & urinogenital system kindey & excretory duct.

Unit 3:- Student will be know about nervous system- brain & spinal cord, ear & eye st. & function cards & genital duct.

Unit 4:- Student will be learn about - Digestion and absorption of dietary component, physiology of heart cardiac blood circulation & resperation.

Unit 5:- Student will be understand the excreation physiology of muscle constriction & nerve impulse, synaptic transmission.

Conclusion :- Student will be learn about integument hair & endoskeleton, circulatory system & excretory system with digestion absorption excruciation.

**Paper - 2nd vertebrate , endocrinology , reproductive biology behaviour evolution & applied zoology.**

Unit 1:- Student will be understand the structure and function of endocrine gland , hormone receptor biosynthesis & secretion thyroid adrenal.

Unit 2:- Student will be learn about reproductive cycle , menstruation lactation pregnancy , mechanism of parturition & hormone regulation of gametogenesis.

Unit 3:- Student will be know about evidence of organic evolution theories , variation mutation isolation & evolution of horse.

Unit 4:- Student will be learn about ethology, pattern of behavior , reproductive behavioral pattern drugs & behavior home & behavior.

Unit 5 :- Student will be learn about prawn culture sericulture apiculture, pisciculture poultry keeping & element of pest control.

Conclusion :- Student will be learn about endocrine gland reproductive cycle, lactation , various mutation drugs behavior. prawn sericulture etc.

### Bsc. 3 rd year

#### Paper - 1 Ecology , Environment- Biology, Toxicology microbiology & medical zoology.

Unit 1:- Student will be learn about ecology aims & scope, major ecosystem , population biogeochemical air water pollution. Ecological succession.

Unit 2:- Student will be understand the environmental biology - law of limiting factor food chain, energy flow environment impact.

Unit 3:- Student will be know about toxicology definition, classification principle animal poison, food poison.

Unit 4:- Student will be understand the microbiology general applied domestic water industrial microbiology.

Unit 5:- Student will be know about medical microbiology - introduction of pathogenic virus brief account of life history & vector insect.

Conclusion :- Student will be know about ecology environment , biology ,toxicology micro biology & medical microbiology etc.

#### Paper - 2nd Genetic, cell physiology biochemistry biotechnology & biotechnique.

Unit 1:- Student will be know about genetics linkage, varieties of gene expression , sex chromosome , mutation & human genetics.

Unit 2:- Student will be understand cell physiology ph buffer, transport across membrane hydrolytic enzyme.

Unit 3:- Student will be know about biochemistry amino acid & peptide, carbohydrate , lipid metabolism & protein metabolism.

Unit 4 :- Student will be understand the biochemistry the biotechnology - scope & importance , recombinant DNA , cloned gene ,application of biotechnology.

Unit 5:- Student will be know about biotechnique ph meter calorimeter centrifugation separation of chromatography .

Conclusion :- The student will be understand genetic linkage, mutation, ph buffer across membrane biochemistry bio-technology , ph meter separation of protein lipid.

# DEPARTMENT OF SOCIOLOGY

## COURSE OUTCOME M.A. SOCIOLOGY

### MAS 101 Excellent Sociological Traditions

- **theory of social change** -Students related to social change got the knowledge of change in society, how society passed through an equal stage and moved towards civilized society.
- **Dialectical Materialism** - Philosophical Laws of Social Change - From dialectical materialism, the students got the knowledge of change in the society through the reality and truth of the world and got the knowledge of their debates, arguments and got the knowledge of the philosophical law of change
- **materialistic interpretation of history** - Students got the knowledge of the real rules related to history and got complete knowledge of the direction of change in history.
- **economic determinism** - Students got complete knowledge of economic determinism, students got complete knowledge of how human works under the pressure of others for his livelihood and he depends on other person.
- **proletarian revolution** - The students came to know that the proletariat is called the working class, which does not have the means and control of production.
- **socialist economy** - An economy where the government has authority over the means of production and distribution, which the students got to know
- **infrastructure and infrastructure** - The girl students got complete knowledge of the economic structure of the society formed by the

sum of the production power generation relationship and the upper and lower part of the society came to be known.

- **principle of extra origin** - This difference between the value created and the salary received is called additional value.
- **Imail durkheim** - The students of the first semester of MA Sociology got acquainted with the knowledge of great thinkers like Emile Durkheim and got complete knowledge of his works
- **suicide theory** - Students got the knowledge of all the things related to suicide, how people are capable of destroying their own body and students know suicide, altruistic, unnatural, suicide and how it affects the society and in which month people are mostly victims of suicide. have got all the knowledge of it
- **Theory of Social Division of Labor and Integration** - Students got the knowledge of division of labor, through mechanical unity and organic unity, got complete knowledge of division of labor between men and women.
- **Max Weaver-** Students got complete knowledge related to Max Weber's ideas, got knowledge of intellectual power in his works, got knowledge of his thinking power, achievements, scientific approach.
- **Power theory** -The students got complete knowledge of the power of power, how the peace of a person is actually that effect in relation to other persons, which is able to exert on others, got complete knowledge of it and through the same means peace in the person who has power. It is implied that you have got complete knowledge of energy.
- **Milfred pareto** -The students got the knowledge of the modern ideas of Tilfred Pareto. Pareto was both an economist and a sociologist, all his works are a sign of his extraordinary ability and talent.
- **Classification of logical - illogical verbs-** Belonged to the logical irrational knowledge of the girl students, in which the knowledge of subjective and objective was found, in which the person got the knowledge of all the information related to the mind consciousness and how the person uses his consciousness in the interest of the society.



- **Specific driver** -The students got the complete knowledge of the feelings and emotions that motivate human's irrational and unintelligible behavior.
- **theory of social change** - Girls got knowledge related to social change, how elite class is able to bring change in society.

### **MAS102**

- **social anthropology**- M.A. In the study of social anthropology under the first semester of sociology, the girl students got a brief knowledge of the practical quality of human life initiatives.
- **Practical and functional anthropology** - The girl students got the knowledge of human quality and to control the then events and problems prevailing in the society.
- **Modernization Globalization Problems arising out of urbanization**- The girl students got complete knowledge of ancient and modern times and got this Sikh that how social system was formed in ancient times, unlike in modernization, social system is related to globalization, the difference was found in village, town, city and the way society came out of barbarism and became civilized. The girls got complete knowledge of how the nature of change reached towards the society. And the way the changes are happening rapidly in the society, got complete knowledge of how the problems are increasing in the daily routine.
- **Problems arising from slight changes in traditional culture** - The girl students got this knowledge in the social system that how technology was used in the traditional, custom, culture of the society and the direction of change made a positive impact in the society.
- **Knowledge of government and semi-government anthropological in planning and development program** -The girl students got the knowledge of planning development program, how the problems of the society are solved by using schemes in the society, how facilities are provided to the rural people through government NGOs.
- **Found anthropological knowledge in education and social awareness** -The students got complete knowledge of how the nature of education increased the awareness of the people in the society through the use of human in anthropology.

### **MAS103**

#### **unit - 1      social change in india**

- **Social change**-The girls got the knowledge of social change easily, how the increase in the size of the group, the change in the economy, the beginning of a stable life from an unstable life, the transformation in the structure of the society, the new knowledge of religious beliefs and activities, the students got complete knowledge.
- **Linear Theory of Social Change** - Change in the society to the girl students takes place on the basis of even straight line, its complete knowledge

- **Cyclic change** - How social change takes place in the society through a straight cycle, where the change begins and ends there, the students got complete knowledge about it.

### **unit - 2 factors of economic change**

- **Economic factors** - Economic development is directly related to the means necessary for our life and the development of any country depends on two things - natural resources and human resources, how the girls got the knowledge of this, how the family and marriage changed, in the status of women. Changes, changes in the caste-class system, changes in religious life, the students got complete knowledge of all these.
- **Psychological factor of social change** - Just as the change in society became the cause of human mind, human consciousness was able to bring change in the society, got complete knowledge of it.
- **Cultural religious reasons-** Students got the knowledge of cultural and religious factors in social change, how technology changed in culture and the outbreak of science started increasing in religious processes.
- **Media** -The media played an important role in bringing about social change, changes were brought in the routine, the social system went upwards, the girls got all the knowledge about it.

### **Unit - 3**

- **Direction of Change in Modern India** - At present, the changes that took place in India, such as the acceptance of the lower caste, the upper caste, there were changes in the means of communication, the knowledge of which was given to the girl students.
- **Sanskritisation** - Changes in the culture of India like how the lower castes came out of their culture and barbarism and moved towards civilized society.
- **Secularization** - The students got complete knowledge of how humans used rationality in place of religiosity in present-day India.
- **Gandhism** - The students were impressed by Gandhi's viewpoint, because they are staunch opponents of the state machine, considered all crimes to be born of circumstances, they did not believe in the punishment system, the girls got complete knowledge of it.
- **Globalization** - The students got the complete knowledge of globalization, how one country trades with another country, deals with each other's culture.

### **Unit - 4**

- **Changes in urban and industrial areas of India** - The outline of change in the urban area, such as the development of communication tools, the increasing influence of technology, the increasing construction of factories, people get self-employment, in this way the knowledge of urban change was given to the individuals or girls.
- **Immigration and Development in the Informal Sectors** - The girl students got the knowledge related to the area, people settled from one country or region to another country or region, where there has been an increase in the development process, got complete knowledge of it and the girl students got the idea that how people are able to bring changes in themselves.
- **Development of slums** - The development of how the dirty settlements flourish is seen more in the metropolis than in the villages and the ill-effects of this have been done by the students.
- **Development of criminal activities** - The increase in the activities of crime, how people adopt crime, the reasons for them are their own, the students got complete knowledge about them.

## MASS01

### Methodology and Computer Application of Research

#### Unit - 1

- **Research Concept Step Process** - The students of sociology studying got complete knowledge of research, made many efforts in the society and the knowledge of its methods was also given to the students.
- **Types of Research - (1) Basic, Practical and Actionable** - Students got complete knowledge of all these, tried to know the events of the society, through practical research, got complete knowledge of how any incident or problem is dealt with at that time.
- **(2) Quality and conclusive research** - How the students got the knowledge of the quantitative method, how in this method, observation questionnaire, schedule, interview method is used to know the field problems, how the hooligan method is used to know and study the qualities of personal life. The girls got all the knowledge about it.

- **Research problem selection** - Society is very big and complex, how we study the area by choosing the hidden problem in it, got complete knowledge of it.
- **Use of hypothesis in research** - In the research work, we can not tell the story of the future without hypothesis, we got complete knowledge about the hypothesis that indicates the future.

## UNIT - 2

### Research tools

- **Use of questionnaire in research** - The students got the information of the questionnaire and the person doing the research prepares questions to know the events and problems of any area and the person who gives the information is sent through post.
- **Use of interview in research** - Just as a person receiving information receives knowledge from each other directly face to face and receives complete information. The girls got all the knowledge about it.
- **Psychological Tests and Observations** - The students got complete knowledge of the consciousness of individuals through research, how human beings use their mentality in research or any search with patience. Somehow a person uses his senses in search, the students got complete knowledge of this.
- **Estimation techniques**- Through estimation techniques, we almost try that our answer is on numerical basis. The girls got all the knowledge about it.
- **Measure of attitudes** - A person is a social animal, who reads to come in contact with many types of situations, objects, persons or groups, who gets some information by seeing and hearing, along with getting this information, the person adapts on the basis of his experience, knowledge, education. Or the unfavorable opinion gives rise to thoughts or feelings, the students got all the knowledge about it.
- **Use of guidance** -When the researcher selects a few units in a very large aggregate and obtains information about the whole whole. How time, money is saved, how intelligent people are selected

in a holistic manner, the students got complete knowledge about it.

### **MASA05**

- **Urban sociology** - Through these activities, the girls were introduced to life and human interaction in urban or metropolitan areas, in which the girls were perfected in understanding the structures, environmental processes, changes and problems of the urban areas.
- **Urban ecology** - Through this activity, the students got the experience of scientific study in relation to each other and the living beings around them in the context of urban environment.
- **Urban problems** - Through this activity, the girls got acquainted with the knowledge of many problems in the cities, the problems of the cities such as crime, unemployment, poverty, migration, the girls also got the knowledge to control all these problems.
- **Development of cities** - Through this activity the students got knowledge about the development of cities before and after industrialization. And how the changes take place in the city, the students got the complete knowledge of how the cities change from time to time.
- **Town planning** - In this activity, we provide students with information about the goal of town planning, how to design human settlements from small villages to large cities, to plan for the development and construction of any city or its settlement. have to develop. The girls got all the knowledge about it.

## MASA02

- **Gender and society**- Through this activity, the students got the knowledge of the status of womanhood or masculinity, at what level their importance is in the society, they got information about the importance of women and men in the division of labor.
- **Gender Inequality in India** - Through this activity, the girl students got knowledge about gender related behavior in different cultures related to gender.

## MAS201

### 2nd semester

- **Sociological thinker** - Through this course activity, the students got knowledge of some thinkers. The students got the knowledge of how thinkers are perfect in solving social problems by using their consciousness.
- **August Kamte** - Through the activities of Auguste Comte, the girl students got the knowledge that in order to understand their problems in the society in an orderly manner.
- **Emile Durkheim**- Through the activities of Emile Durkheim, the girl students got the knowledge of how the division of labor took place in the society, how the form of suicide takes place in the society.
- **Karl Marx** -Through this activity, the girls got knowledge of capitalism, the girls got information about how the weaker sections are exploited in the society.
- **Max Weber** - From this activity, knowledge of how power and authority is formed in the society, how the servant royals complete their tasks.

## MAS202

- **Technical quantitative in societyresearch** - Through this activity students got knowledge of statistics based on compositions. It is based on survey, structural, interview, observation, review of record report, knowledge of this was experienced by the students.

### Unit - 1

- **Demonstration** - Through this activity, students have learned how in a particular area, we take some units or wards and become familiar with that area and use our

rational reasoning to gain knowledge of that area. occurred to.

### **Unit - 2**

- **Deductive Methods and Research** - Through this activity, the students got knowledge of sociology as well as economics and got full experience of how mathematical contexts are used in the research process.

### **Unit - 3**

- **Measurement & Scale Techniques** -Through this activity, the students came to know that the errors that occur in research work have been experienced through testing and the research credibility was experienced.

## **MAS203**

### **Sociological Theoretical Perspectives**

#### **Unit - 1**

- **structural functionalism** -Through this activity, the students got the knowledge of their contribution towards maintaining the social order and organization. Got the experience of how they make possible or reduce the adaptation or harmony of a particular system in the society.

#### **UNIT - 2**

- **Conflict theory** - Through this activity, the students got knowledge of conflict, how people come in contact with each other, they have direct conflict, they got experience of indirect conflict. Got the experience of how the struggle is dominated by power and power in the society.

#### **UNIT - 3**

- **Neo Marxism** - Through this activity, the students got the knowledge that a person is neither alone in the society nor can work alone, he has to come in contact with others as a social animal. The girls experienced this

## **MASBO5**

- **Indian Rural Society**- From this course the girl students will get to know about the major agricultural movement in India. Globalization and its impact on agriculture as well as rural reconstruction will be experienced

### **UNIT - 1**

- **Tribal Society as Peasant Society** -Through this activity, the girl students got the knowledge of the outline of the tribal, how the tribes live in the forests and complete the agricultural work.

### **UNIT - 2**

- **Tribal social issues** - Through this activity, the girl students experienced displacement, land separation, how the famine epidemic makes people homeless from their land and home.

### **UNIT - 3**

- **Peasant movement** -Through this activity, the students got the experience of the peasant movement, the students got the knowledge of how the farmers agitate with the landlords for the things they deserve.

### **UNIT - 4**

- **Naxalite problem in contemporary India** -Due to this activity, the economic and social problem of Naxalites in India, how Naxalites are forced to take up arms, how unrest spreads in the society, the girl students got experience.
- **OSC social ostrich skill development** - Through this activity, the girls are helped in understanding and solving the problems of the society. In this course, we take the girl students to a tourist place and introduce them to the activities there, they are impressed by the scene, the girls got a better experience from it.



### Unit-1

- **Positivism** - Through this activity, the students got the knowledge that the rules of the society, which are the rules, happen in a systematic manner when research work is done, the students got acquainted with the systematic rules and got experience of research work.

### UNIT - 2

- **Functionalism** - Through this activity, the student got the knowledge that the students who contribute towards maintaining the social order and organization, got the experience of how they make or reduce the adaptation or harmony of a particular system in the society.

### UNIT - 3

- **Conflict theory** - Through this activity, the students got the knowledge that how people come in contact with each other, directly or indirectly, the girls got the experience of conflict.

### UNIT - 4

- **Structuralism** - Through this activity, the students got the knowledge that the facts are analyzed in the context of the notation system. The girls got the experience of human science.

## MAS302

### Perspective of Indian Society

#### UNIT -1

- **G.S.GHURIYE BOOK PERSPECTIVE** - In this course, the girl students got the knowledge of Indian society and according to what rules their culture follows, they got the knowledge of the basic tradition, sage, art, dance, religion, caste, business, class of India.

#### UNIT - 2

- **Iravati Karve and K. N. Kapadia** - Through this activity, the girl students got the knowledge of family and kinship system in the society.

#### UNIT - 3

- **M. N. Srinivas** - Through this activity, the girl students got knowledge about the system of Jajmani Pratha, the traditional customs going on in the rural society. Experience of how a lower caste adopts a higher caste.

#### UNIT - 4

- **N. K Bose and B. R. Ambedkar** - With this activity, the students . K Bose and B. R. How did I get experience of Ambedkar's knowledge? . K Bose showed the civilizational perspective through the physical and non-material processes of culture, he became aware of how culture and religion got importance in society. R. Students were greatly influenced by Ambedkar's works, there should not be a distinction between low and high in the society, the students got the knowledge of how the country can be changed by reading books.

## MAS303

### UNIT- 1

- **Crime** - The relationship between crime and society has been age-old, where there is society, there will be crime, so information about crime, child crime, women's crime, organized crime is given, along with information about crime prevention, police court etc. And a tour of the jail is done, whose experience and knowledge is given to the students.

#### **UNIT - 2**

- **Types of criminal** -Through this activity the girl students got knowledge and experience about the nature of crime like organized crime, juvenile crime, white-collar crime is corrupting the society.

#### **UNIT - 3**

- **Altered image of criminals** - Through this activity, students got experience of corruption, cyber crime, crimes against women and ways to solve them.

#### **UNIT - 4**

**Punishment and Terrorism** - Through this activity, the girl students got information about the punishment in the society, those who violate the law, do anti-social work and come under the punishment system and what is done in the society by terror, terror, kidnapping, dacoity, rape, terrorism. The girls got all the knowledge.

#### **MAS502 - Intellectual Property Human Rights and Environment**

##### **UNIT - 1**

- **EXT and Patent Rights** - Through this activity, the students got the knowledge that a group of exclusive rights given to a prominent person in exchange for making his research public is given for a certain period.

##### **UNIT - 2**

- **Copyright** - Through this activity, the students got knowledge about copyright, such as a creator or artist, a person and organization that has been given the right and can get financial benefits for the stipulated period and in the meantime, the other can not take any advantage.

##### **UNIT - 3**

- **Human rights** - Through this activity, individuals got the knowledge that the claims of the individual, which the society and the nation accept, rights in which there is a rational demand of the individual and the duty is associated with every right.

#### **MASC01 - Tribal studies**

##### **UNIT- 1**

- **Tribal studies** -Through this activity the girl students got knowledge about the condition of scheduled caste, scheduled tribe, their living place, their place of residence, how they live their life.

##### **UNIT- 2**

- **Literacy, poverty indebtedness, unemployment, indebtedness**- In this activity the students got the knowledge of all these things due to the evils of

the society, what is the level of literacy, what is the identity of poverty, unemployment, hunger, what is the reason of residing from place to place.

### **UNIT- 3**

- **Tribal Welfare** - Through these activities, the girl students got the knowledge of the welfare schemes made by the government for the tribe, such as knowledge of NGOs, etc.

## **4 TH SEMESTER**

### **MAS401 - Modern sociological theory**

#### **UNIT -1**

- **Symbolic interactionism** - Through these activities, the students got knowledge about the interactions between human beings and human beings, how human beings use symbols in society, how we learn from other's thoughts and feelings, how people are affected by our own feelings. Got the knowledge of this.

#### **UNIT -2**

- **Home science** -Through this activity, what events are being suffered by the students in everyday life, what is its importance on the society and the importance of human consciousness on society is to study what a human looks like on the same basis.

#### **UNIT -3**

- **Folk jurisprudence** - Through this activity, the students came to know about the basic origin, this science is done through the scientific method of the events of the society, it is a social concept of science, the students got the knowledge.

#### **UNIT -4**

- **Postmodernism** -Through this activity, the students got the knowledge that in the second half of the 20th century, a cultural movement spread in the fields of philosophy, art, architecture and criticism, which expanded again, the students got to know about it.

### **MAS402 - Comparative sociology -**

#### **UNIT -1**

- **Sociology in the west** -Through this activity, the students got the knowledge that the roots of sociological tradition are related to that era in Europe.

#### **UNIT -2**

- **Central theme of comparative sociology** -Through this activity, the students got the knowledge that the knowledge of unity in diversity in the Indian society got the knowledge of what is the condition of the majority.

#### **UNIT -3**

- **Current controversy** -In this activity, the students got the knowledge that the natives of Indian culture, art and practice got knowledge of all these things.

#### **UNIT -4**

- **Sociology for India** -How did this activity lead to the beginning of sociology in India, the ideology of sociologists in India got the knowledge of which relationship was considered important in sociology.

### **MASD02 -Urban Society in India**

#### **UNIT -1**

- **With reference to town and town** - Through this activity, the girls got knowledge of the city and town, what is the status of their population.

#### **UNIT -2**

- **Change in business structure** -Through this activity, the students got knowledge about the occupational structure of the city like class, caste, gender, family structure.

#### **UNIT -3**

- **Urban planning in city management** -Through this activity, the girl students got the knowledge about the arrangement of the city and the plans they make towards the society.

**MAS504 - Dissertation** - Through this activity, the students got knowledge of short dissertation and in future M. a. After passing P. h. D. Got the experience of doing and got the knowledge of step by step method of knowing about the events of the area.

## **Course outcome**

**B.A. FIRST YEAR**

**PEPAR-FIRST**

**Sociology-meaning, nature, scope, subject matter and significations:** From this chapter, the students learned that sociology is a science to inform about social relations and society.

**Marriage:** While reading this, the students came to know that marriage is an important social institution.

**Family :**Through this, the students came to know that the family is the first and most important unit of the society. The family plays an important role in controlling human behavior and transforming it from biological being to social being.

**Kinship :**Through the study of this topic, the students will be able to get information about the mutual and basic relationships of human beings.

**Society -**While reading this the students are able to understand and analyze the fact that human being is a social animal and fulfillment of his needs is not possible without society.

**Culture :**Through the study of this topic, students get acquainted with the importance of culture and its need in human life.

**Social Control :**After reading this topic, students will be able to understand the rules and regulations of different societies and the restrictions imposed on going against them.

**Social norms and values :** Through this, the students will be able to understand that the society sets some rules to keep the individualistic, selfish and chaotic nature of man under control.

**Social stratification :**Through this, students will be able to understand and analyze different strata of society.

**Social mobility :**Through this, students will be able to get acquainted with the theory of social mobility.

**Social change :**Through this topic, students will be able to get acquainted with the continuous changes taking place in the society.

**Evolution :**Through this, the students learned that evolution is a law of social change which always takes place in the same direction towards the top.

**Social system :**Through this, the students came to know that as a social animal man has many needs and for their fulfillment, he is doing various activities

Social process : Through this topic, students are able to understand that human life is not possible in the absence of society.

B.A. FIRST YEAR

PEPAR-SECOND

**Verna, Ashram, Karma, Dharma, Purusharth**-Under this unit, students will be able to get acquainted with the ancient system of Indian society and its nature and working process.

**The structure and composition of Indian society**- Through this unit, students will be able to get acquainted with the structure of Indian society and the various castes, sub-castes and their specialties living in it.

**Basic institutions of Indian society** :Through this, students will be able to get acquainted with the caste system of Indian society, the nature and specialties of the institution like joint family and marriage.

**Familial problems** :Through this, students will be able to analyze the causes and solutions of various problems like dowry system, domestic violence, divorce.

**Social problems** :Through this topic, students will be able to get acquainted with the nature of various social problems like surrogacy, motherhood, live in relationship, regionalism, corruption, etc.

B.A. Second Year YEAR PEPAR-FIRST ( sociology of tribel society )

**Tribes** :Through this topic, students will be able to get acquainted with the various tribes and their nature of Indian society.

**Classification of tribel peoples** :This chapter introduces the students in detail to the classification of different tribes living in India on the basis of geographical, cultural, ethnic and linguistic basis.

**SOCIO-CULTURAL profile** -Through the study of this topic, students will be able to get acquainted with the family differences, marriage, kinship, religious and cultural traditions of various Indian tribes.

**Tribel sensitization** :Through this topic, students get information about the migration of Indian tribes, various schemes implemented by the government and various movements run by them.

**Problems of tribel people** :Through this, students will be able to understand and analyze the fact that the main reason for their backwardness is their financial weakness. Along with this, you will be able to analyze the problems of Chhattisgarh's especially backward tribes and the conditions of exploitation done on them.

B.A. Second Year PEPAR-Second (CRIME AND SOCIETY)

**Concepts of Crime** :Through this topic, students will be able to analyze the nature of various crimes, their structure and the reasons behind them.

**Structure of crime** :Through this, students will be able to analyze various forms of crime and their situations.

**social evils and crime** :Through this, students will be able to understand the various problems of Indian society.

**Punishment :objectives and forms** :Through this, students will be able to get acquainted with the various provisions of punishment.

**Correctional process** :Through this, students will be able to get acquainted with the Indian judicial system, the nature of police and jail etc.

B.A. Third Year PEPAR-FIRST (FOUNDATION OF SOCIOLOGICAL THOUGHT )

**Through this paper, students will be able to understand the various theories, ideas of Indian and western thinkers and be able to apply them in life.**

B.A. Third Year PEPAR-SECOND (METHODS OF SOCIOL RESEARCH)

**Through this paper, students will be able to study various methods of social research in detail. Along with this, you will also be able to understand their method very well.**

## **DEPARTMENT OF POLITICAL SCIENCE**

### **Course Outcome Political Science**

#### **B.A. 1<sup>st</sup> year 1<sup>st</sup> paper**

Unit-1 Political Science : meaning, definition :- From this chapter the students understood the meaning and definition of Political Science. He learned from this chapter how political science can be seen.

Unit-2 Essential elements of state, origin of states :- In this unit, the students studied several essential elements of the state. Along with this, various theories of the origin of the state were also studied. In this, the students got the knowledge about how the state originated and what are its essential elements.

Unit-3 Sovereignty, Pluralism, Rights, Duties, Liberty, equality, Democracy :- From the third unit, the students get to know about the various chapters. Such as meaning and residence of sovereignty, pluralistic concept of state, rights, civic duties etc. Develops understanding on the concept of liberty and equality. At the same time, the understanding of democratic values is developed in the students by highlighting the concept of democracy.

Unit-4 Unitary and federal system, President and parliamentary system, executive, legislature, judiciary :- Different types of governance were explained under this unit. Various organs of government, executive, judiciary and legislature were highlighted. The meaning of the constitution was also explained to the students.



Unit-5 Welfare state, Party system, Pressure groups, social change, feminism, nationalism :- Under this unit, the students were given information about the public welfare state. The students were also told about the party system - pressure group. The concept of social change was also highlighted. Along with this, the concept of feminism and nationalism was also explained. Developed understanding among the students on various topics mentioned above

### **B.A. 1<sup>st</sup> year 2<sup>nd</sup> paper**

Unit-1 Movement, acts :- From the first unit, students get information about the struggle for Indian independence and various governance acts. Students understand the importance of struggle for freedom

Unit-2 Indian Constitution, fundamental right, fundamental duties, directive principals :- This unit introduces the student to the Indian Constitution. Fundamental Rights, Duties and Directive Principles have been explained. The student gets information about the various rights and duties given by the constitution.

Unit-3 Executive, Legislative :- This chapter throws light on the federal system of executive, following system etc. in Indian polity. In this, important constitutional posts like President, Prime Minister, Council of Ministers etc. have been discussed in detail.

Unit-4 Union judiciary, state executive :- This unit gives information about the structure of the Central Judiciary Supreme Court and the various organs of the State Executive. Through this, students get information about the various links of the Indian governance system.

Unit-5 state legislature, election commission, political parties, main issues of Indian politics:- This unit throws light on the central state legislature organization, election commission, political parties and major issues of Indian politics like caste, religion, language and region etc. With this, students understand the various structure and practical elements of Indian politics.

### **B.A. 2<sup>nd</sup> year 1<sup>st</sup> paper**

Unit -1 Plato, aristo :- The famous Greek philosopher named Plato and Aristotle have been discussed in this unit. Students study it to increase the understanding of various political ideas of ancient Greek philosophers.

Unit-2 Machiavelli, Hobbes, Locks, Rousseau :- This unit throws light on Machiavelli and the social compromise ideas of Hobbes, Locke and Rousseau. By studying this, the students understand the main principles of the origin of the state.

Unit-3 Bentham, Mill, Green, Marx :- This unit deals with the ideas of Bentham's utilitarian, Mill's independence and representative government. The communist idea of Marx has also been criticized. From this chapter, students understand the thoughts of these thinkers.

Unit-4 Idealism, Individualism, Liberalism, Socialism, Fascism :- This unit considers the famous political issue of the world. This chapter develops the student's understanding of the various ideologies mentioned above.

Unit-5 Manu, Kautilya, Gandhi, Ambedkar, Dindayal :- This unit throws light on Indian political thinkers. With this, the students become aware of the two prominent ancient thinkers of India Manu and Kautilya and modern thinkers like Gandhi, Ambedkar, Deendayal.

### **B.A. 2<sup>nd</sup> year 2<sup>nd</sup> paper**

Unit-1 British Constitution :- In this chapter, the world's oldest constitution, the constitution of Britain, has been discussed. This addresses the development of the constitution

Unit-2 constitution of the united states :- The various aspects of the United States Constitution have been explained in this unit.

Unit-3 constitution of Switzerland :- In this chapter, the unique constitution of the world, the constitution of Switzerland has been highlighted.

Unit-4 constitution of china :- In this chapter, the monopoly system and constitution of China have been highlighted. With this, the students understand the Eklavdi system.

Unit-5 Comparative Politics, System Theory, Political Socialization, Political Culture :- This chapter throws light on the concept of comparative politics. Along with this, the concept of political science, socialization and culture has also been highlighted.

### **B.A.3<sup>rd</sup> year 1<sup>st</sup> paper**

Unit-1 International Politics Approaches to Studies :- The concept of international politics has been explained in this unit. Along with this, various methods of its study have also been highlighted. Develops understanding of international political concepts

Unit-2 Various theories of international politics, power, power struggle, power accumulation, power growth, power demonstration :- Various dimensions of power have been highlighted under this unit. Helps the student to understand the power in the international arena

Unit-3 Balance of power, security :- The balance of power under international politics has been highlighted under this unit.

Unit-4 Diplomacy, disarmament :- This chapter is based on Diplomacy and Disarmament in International Politics. This gives the student a detailed understanding of diplomacy and disarmament. It becomes a very relevant topic in the contemporary scenario.

Unit-5 Environment, Human right, Globalisation :- This chapter deals with some of the burning issues in the international arena. It makes the student aware of contemporary international problems and issues.

### **B.A. 3<sup>rd</sup> year 2<sup>nd</sup> paper**

Unit-1 Public administration :- In this chapter the meaning and definition of public administration has been explained. Along with this, its importance and difference from private administration has also been told. With this, students get acquainted with the subject of public administration.

Unit- 2 New public administration :- In this unit the various methods adopted for the study of public administration have been highlighted. Naveen Public Administration has also been explained. The student develops an understanding of detailed studies related to public administration

Unit-3 Politics & administration, leadership, decision, accountability :- This chapter throws light on the relationship between administration and politics, leadership, decision making and accountability. This will develop understanding among the students on various aspects of public administration.

Unit-4 Bureaucracy, Budget :- This unit deals with the study of new dimensions of bureaucracy, budgeting process and public administration. Its study gives information about the theory of bureaucracy, its various forms, budget making process and new dimensions of administration in the era of liberalization.

Unit-5 Control: Legislative and judicial :- It discusses student and judicial control over administration. In democratic countries, democratic methods of control over administration are studied. With this, the student understands the administration and the legislature-judiciary relationship very well.

## DEPARTMENT OF ECONOMICS

### Course Outcome

#### B.A. 1<sup>st</sup> year Economics 1<sup>st</sup> paper

- Definition of economics – what is economics and to know about definition of economics.
- Nature and scope of economics- To study the scope, limitations, problems and importance of economics
- Methodology of economics - Knowledge of the merits and demerits of the inductive and deductive system
- Utility analysis - Understanding that the consumer gets satisfaction when he consumes anything, that is utility
- Law of Diminishing marginal utility - The utility of any commodity in excess of quantity gradually decreases.
- Law of equi-marginal utility or the law of substitution - In daily life, if a person has an item of alternative use, in what way will he use it?

- Indifference curve analysis - How does a conscientious consumer choose combinations of goods
- Price line or budget line - How does he spend his monetary income on different things and when the price changes, his price line also changes. The consumer is balanced by the indifference curve and the price line.
- Giffen goods - The income effect is negative in respect of the following goods
- Demand and law of demand - Getting information about what is demand in the economy and what are its rules
- Elasticity of demand - The demand for a commodity changes with the price of that commodity, but how much does it change, the leach of such demand tells
- Consumer's surplus - Every consumer has some form of savings at some point or the other. Understanding this in Economics
- Production function - Getting information about using the means of production efficiently
- Law of variable proportion - To give information about the use of means of production and change in production level in the short run. The basic law of economics is
- Returns to scale - Information regarding adjustment of means of production and change in product level in the long run
- ISO – Product curve analysis and production decision. Information about possible combinations of two resources that show the same output
- Factor price line - A given cost refers to the different combination of two resources in the expenditure.
- Economics of scale - Understanding the disadvantages of how there is profit in mass production
- Different concept of costs and their interrelation - Giving information about different types of costs, the means of production also get rewards from the cost and their value is determined.

- Equilibrium of firm - Where is the firm's equilibrium between perfect competition and imperfect competition?
- Market and structure of market - information about different markets
- Equilibrium of firm under perfect competition - How the price is determined in a perfectly competitive market
- Monopoly - Determination of prices in monopoly market and study of profit and loss situation in short run and long run
- Price discrimination - Understanding price differentials in the real world
- Monopolistic competition - Pricing and study of different situations
- Duopoly and oligopoly - To discuss matters related to advertising promotion etc. in the real world
- Administered prices - Information about prices set statutorily by the government
- Marginal productivity theory of distribution - How is the remuneration determined for the means of production?
- Theories of wage determination - Labor gets wages, informs about the determination of wages
- Rent - Rent to Bhumiapati and its fixation
- Interest - Interest to capitalist and its assessment
- Profit - Benefit to the adventurer and its determination
- Concept of welfare economics and value judgement - Study of economic welfare and the role of welfare economics in determining economic policies
- Pigou's contribution in the field of welfare economics - To relate economic welfare and social welfare by the measure of money
- Concept and condition of Pareto's optimality - There will be social welfare by increasing the welfare of any one in the society without harming anyone.
- New welfare economics –

## **B.A. 1<sup>st</sup> year economics 2<sup>nd</sup> paper**

- Pre and post independent Indian economy - economic policies of british india and state of economy at the time independence. To give information about the economic policies before and after independence and to make aware of the condition of the Indian economy.
- Planning exercise in india - To provide information about the constitution of Planning Commission and NITI Aayog and their functions.
- Planning in india through different five year plans - To study the various five year plans of India and to give information about their objectives.
- New economic reforms – liberalization, privatization and globalization. To study the role of economic reform programs in accelerating economic growth
- Demographic features - To give information about the size of population, population explosion and population policy in the Indian economy.
- Human resource development – Education - The economic development of any country depends on the education of the people living there, so to make students aware of the importance of education.
- Health - To accelerate economic development, it is also necessary for the people living there to be healthy, so to study the state of health.
- Problem of malnutrition - Being aware of the malnutrition situation in India
- Problem of migration - Explain the meaning and types of migration
- Poverty problem - acquainting yourself with the problem of poverty
- Problem of inequality - To study how inequality is found in the Indian economy

- Problem of unemployment in india - To study the problem and types of unemployment in India and measures to overcome them
- Occupational distribution of population - To study occupational distribution of population
- International comparison in human development and poverty reduction - Familiarity with Human Development Index
- Agriculture – nature and importance trends in agriculture production and productivity.
- Land reforms - Providing information about the land reform system in Indian agriculture
- New agricultural strategies - To be familiar with the policy of increasing agricultural productivity and production in a given period
- Green revolution - To make aware of the new agricultural policy used to increase the production of agricultural crops at a rapid pace.
- Rural credit - To know the types and sources of credit arrangement to meet the needs of the villagers
- Agricultural marketing - To study the characteristics and conditions related to the collection and sale of produced crops.
- Natural resources – Land, water, forest and mineral resources information about natural resources
- Infrastructure development -To give information about the role of infrastructure development for economic development in India
- Prime minister mudra yojna – PMMY-To provide loan information to youth for their employment under this scheme.
- Industrial growth and productivity in India -To give information about the rate of industrial growth and productivity in India
- New industrial policies of year 1956 & 1991 and change there in- Giving information about various industrial policies in India
- Concept of small-scale industries Cottage industries problem and prospects - to study the problems and prospects of small-scale industries in India



- Role of public sector in industrialization - To study the role of public sector undertakings in the industrialization of India
- (Role of foreign trade) trends in exports and imports composition and direction of foreign trade in India -To study the structure of foreign trade or international trade and the direction of exports
- Export promotion measures and the new trade policies - To know about the need for export promotion and foreign trade policies in India
- National income, investment & saving -Giving information about the national income of India, per capita income
- Problem of inflation or problem of rising prices in India -Be aware of rising prices and inflation
- Fiscal policy of India -To get information about government's revenue collection, government expenditure, government's debt and fiscal budget deficit management under fiscal policy.

### B.A. 2 nd year – first paper

- Concept of national income and its structure -To give information about which values of goods and services produced in the country are included in the national income so that the national income can be known.
- Measurement of national income and social accounting – To study various methods of measurement of national income.
- Classical theory of output and employment – To be familiar with the says law of market.
- Keynesian theory of output and employment effective demand, aggregate demand and supply functions – Understanding the effective demand and aggregate supply.
- Consumption function – Understanding the psychological law of consumption.

- Theory of investment – Understanding the investment demand schedule.
- Investment multiplier and its effectiveness in LDC's – Understanding Investment multiplier and its effectiveness in LDC's.
- Keynesian theory and under developed countries – To study how effective the theory of Keynes is in the under developed nation's.
- Rate of interest classical and neo-classical theory – Understanding the liquidity preference theory of interest.
- Keynesian theory of interest - Understanding the meaning of liquidity preference.
- Trade cycle – characteristics and nature - It is necessary to understand the business cycle to understand the boom and recession in the economy.
- Trade cycle : Hawtrey and Hayek's theories - The business cycle arises due to more or less amount of currency.
- Keynesian theory on trade cycle - Understanding the Ideas of Keynes.
- Hicks & Samuelson model on trade cycle based on accelerator , multiplier- To study the conditions arising out of recession and boom in the economy by multiplier and accelerator.
- Control of trade cycle -Providing control over the business cycle.
- International trade - Understanding the state of trade between one nation to another.
- Inter -regional trade and international trade - Understanding international trade and intra-regional trade.
- Comparative cost theory -To inform that trade takes place due to difference in cost between two countries.
- Cost theory -How much should be used for limited resources and how much is its alternative use.
- Heckscher – Ohlin trade theory features assumptions and limitations -To tell which goods should be imported and which goods should be exported.

- Concepts of the terms of trade -How should trade allowances be made in international trade?.
- Tariffs and quotas concept of optimumtariff -What is the effect of import tax, export tax and transport tax in business?.
- Balance of trade and balance payment concept & components - To know the position of trade of a country, to know the position of balance of payments.
- Equilibrium and disequilibrium in balance of payment - Study of the condition of civilization and rudeness in balance of payments in trade.
- Relative merits demerits and limitations of devaluation -What is the depreciation of money and getting information about the merits and demerits.
- Foreign trade multiplier - Understanding the position of the effects of the foreign trade multiplier of balance of payments.
- International monetary fund -To do monetary cooperation between different countries of the world and to solve economic problems with cooperation.
- Functions of world bank - To work for rapid economic development of underdeveloped countries.
- World trade organisation -WHO -Promote business and solve problems.
- Reform of the international monetary system and india -Euro currency information and Indian currency information.
- Foreign trade india - Understanding foreign trade, import and export is necessary for the economic development of the country.
- Indias balance of payment -Items to be included in the credit and liability side of monetary deals with the world.
- Partial and full convertibility of rupee - Giving information about converting foreign currency into Indian currency and converting Indian currency into foreign currency.

- Instruments of export promotion and import substitution with special reference of india -How can exports be increased and what is its importance for a country like India.
- Recent import – export policies of india -Understanding import and export policies in developing countries like India.
- Role of multinational corporations in india- To inform the contribution of multinational corporations in the economic development of India.

### B.A. 2 nd year – second paper

- Definition, functions , significance and classification of money - Economic activities in the economy are driven by money, so understanding its function and importance.
- Gresham’s law - Understanding the concept of bad posture and good posture while every human being goes through this psychological state.
- (Determination of value of money) Quantity theory -cash transaction ,cash balance approach and Keynesian approach - Understanding the Exchange Value of Money and Understanding Valuation.
- Inflation -The rise and event of prices are often seen in the economic world, so understanding the spread of money and its cause and effect.
- Cost push & demand pull inflation and Philips curve -Understanding that inflation arises from rising costs and increasing demand.
- Deflation, Disinflation ,recession, stagflation and reflation -Increase in the value of money in the economy, control the value of money, state of recession, liquid inflation, controlled, tell the state of inflation.
- Meaning and types of banks -Giving information about banks so that one can understand its importance in real life also.

- Function of commercial banks - How does a commercial bank perform its functions? Get information about banking practices from.
- Credit creation reforms in banking sector and cheap money policy - Getting information about branch building in banks.
- Balance sheet of bank – liabilities and assets -Providing bank status details.
- Commercial banks in india – Exolution nationalization, reforms -To inform about the development and nationalization of the bank.
- Functions of central bank - Information about the monopoly of printing currency to other works.
- Methods of credit control -Explain the methods of controlling branch currency.
- Reserve bank o india - Central Bank to give this information as Reserve Bank of India.
- Monetary policy – in special reference to india - The policy adopted by the central bank for credit control is monetary policy. study its objectives.
- Meaning nature and scope of public finance -the meaning of public finance to study the nature and area.
- Public goods vs private goods -study of private goods and public goods.
- The principle of maximum social advantages - Explanation of the principle of benefit to maximum people of the society.
- Market failure and role of the government -Giving information about what causes any market to fail.
- Public expenditure meaning , canons and importance -To understand the principle and importance of public expenditure that public expenditure is done for the welfare of the public.
- Trends in public expenditure and causes of growth of public expenditure in india - Reasons for increase in public expenditure in countries like India.

- Sources of public revenue - Knowing from where the government gets its income.
- Classification of taxes - Giving information about the types of taxes and what should be their characteristics.
- Canons of taxation -study the principles of taxation.
- Division of tax burden and ability to pay approaches -To know how much tax is to be charged.
- Impact of tax, incidence of tax and shifting of taxes - To get accurate information about the tax burden on which person.
- Taxable capacity -Giving information about what is taxable capacity and how it is determined who has to pay tax.
- Sources of revenue of central and state government -What are the sources of income of the central and state governments and which taxes they get income from. tell it.
- Public debt : principles and methods of redemption -The public debt which is taken for the welfare of the public, it is the public and what are the types of loans.
- Growth of public debt in india - How Public Debt Developed in India.
- Concepts and types of budget -Types of budget and giving information about budget making committee.
- Economic & functional classification of budget -Study of types of budget.
- Process of preparation and passing of budget in india - Understanding the process of making and passing a budget in India.

### **B.A. 3 Rd year first paper**

- Economic growth and development – Meaning & importance -In a developing country like India, the fulfilment of human needs and the solution of problems like unemployment and poverty is possible only through economic development. Therefore it is necessary to know the meaning and importance.

- Factors of economics development - It is necessary to understand economics and non economics factors for the economic development of a country.
- Capital formation : demand and supply sides - Understanding the Role of Capital Formation for Economic Growth.
- Characteristics of under development economy and problems like for poverty, per capita income & development gap -Knowing the problems of a developing economy.
- Inequality of income and wealth -To understand inequalities of wealth and income and to be aware of ways to reduce inequalities.
- Factors of human resource development index and quality of life - To understand the role, importance and development of human resource in economic development.
- Population problem and growth pattern of population -To know the size of the population in India and to understand the population growth, to understand the problems and to know the measures to overcome them.
- Theory of demographic transition -High birth rate and death rate in the society leads to changes in low birth rate death rate.
- Population poverty and environment -Many problems are arising due to increasing population, poverty, unemployment, illiteracy, it affects the environment.
- Theory of development classical theory and Marx theory of social change -Understanding austerity, capital formation, free trade policy etc.
- Immutable laws of capitalistic development and crisis -Getting to know the capitalist economy.
- Mahal Nobis four sector model - To understand poverty, to know about such a method, so that the economic development of the country continues.
- Schumpeter and capitalistic development theory -economic development using innovations.

- The theory of big push -How does the theory based on divisibility and constrained economies accelerate the economy.
- Strategy of balanced and unbalanced growth - How should the policy of economic development of developing countries be formulated? to be aware of its molasses defects.
- The critical minimum effort theory -Information about how to increase the minimum income level in the economy.
- Low income equilibrium trap Nelsons theory of low- level equilibrium trap -Economic development can be possible due to increase in per capita income.
- Dualism – Technical – behavioural and social- To get knowledge of dualism society and technical dualism.
- Harrod domra model of economic growth -Harrod Domra model is applicable in developed countries as well as under developed countries.
- Meads neo – classical growth theory.
- Mrs John Robinsons growth model -Theory based on labour and capital as two means of production.
- Environment and ecology – economy linkage and environment as necessity and luxury-Knowledge of the economic environment and the factors affecting it.
- Environmental economy and population environment linkage - Knowing the relationship between population and environment.
- Environmental use and environment disruption Asan allocation on problem -To give information about how the environment is used and decomposed.
- Market failure and environment - Understanding Market Failures and the Environment.
- Property right approach to environmental problem and environment as a public good -study the environment and public interest.



- Valuation of environment damages land , water , air and forest - Assessment and evaluation of negative impacts on the environment.
- Prevention , control and a battement of pollution -Prevention and control of various pollution.
- Choice of policy instrument in developing countries - policies to be followed for economic development in developing countries.
- Environmental legislation -Knowledge of environmental laws in India.
- Indications of sustainable development and environment accounting -Carrying out development with the present and future in mind.
- Concept of intellectual capital -Understanding the importance of human capital in the economic development of any country.
- Efficiency and productivity in agriculture - agricultural development should be promoted.
- New technology and sustainable agriculture - Awareness of agriculture and environmental protection by using new technologies.
- Globalization and agricultural growth - How to build with the world by increasing agricultural production.
- The choice of technique and appropriate technology and & employment - How the country should use new technologies of production for its balanced development. unemployment is also low.
- The role of monetary policy in developing countries - Change in the amount of money and credit to bring about the desired changes in the economic sectors, for this the monetary policy of the Reserve Bank is suitable.

### B.A. 3 Rd year second paper

- Statistics – Definitions importance and limitation - At present, statistics are being used in every field. The world is based on data, so in this chapter, understand the meaning, importance and limitations of statistics.
- Statistical survey and report writing - To know what kind of statistical surveys to be done and how to write reports to do research work.
- Sampling - This chapter provides information on how to use the sampling method in research.
- Statistical data : Meaning, types and their collection - Understanding how many types of data are there, what is the method of collecting them.
- Classification and tabulation of data - Be aware of methods of categorizing and tabulating collected data.
- Diagrammatic presentation of data - After arranging the data, giving information about various pictures to make them attractive and interesting.
- Frequency distribution and their graphical representation - Frequency of statistical data and displaying them on graph paper.
- Measures of central tendency – mean-Specify the mean to calculate the average .
- Median - To give information about dividing the term values into two parts by keeping the data in ascending and descending order.
- Mode -sorted array of values.
- Measurement of dispersion - To find the inequality by comparing two terms in research, to find the reliability of the mean.
- Measure of skewness and kurtosis - information on measurement of asymmetry.
- Correlation - Positive and negative correlation between two variables can be found.

- Index -The index number refers to the measure of changes in the value of the index variable. measures the pulse of the economy.
- Analysis time of series -The analysis of time series has special importance in various types of researches like state administration, economic planning, evaluation of socio-economic programs, so to get information about it.

## हिन्दी विभाग

शासकीय नवीन कन्या महाविद्यालय बैकुंठपुर,

### कोर्स आउटकम

**कक्षा- पत्र-बी ए प्रथम वर्ष प्रश्न -प्रथम प्राचीन हिन्दी काव्य,  
कबीर -**

- कबीर लोक के कवि हैं सुधार से जुड़े उनके विभिन्न पद भारतीय समाज-समाज ।  
- की बुराइयों की तरफ हमारा ध्यान आकृष्ट कराते हुए भेदभावमुक्त समाज की स्थापना का स्वप्न दिखाते हैं ।
- कबीर के पदों में व्याप्त सामाजिक रूढ़ियों तथा अंधविश्वासों के खंडन के माध्यम से विद्यार्थी के भीतर वैज्ञानिक दृष्टिकोण का विकास होता है-
- कबीर की साखियों में मौजूद विभिन्न मानवीय मूल्यों से परिचित होता है ।

### मलिक मुहम्मद जायसी नागमती वियोग खंड :

- भारतीय लोक में स्त्री -जीवन की विविध दशाओं का परिचय प्राप्त होता है ।
- बारहमासा के माध्यम से विद्यार्थी भारतीय ऋतुचक्र तथा लोक जीवन से-  
| उसके जुड़ाव से परिचित हो पायेंगे

- भक्तिकालीन निर्गुण साहित्य के प्रेमाख्यानक स्वरूप से परिचित हो पायेंगे ।
- जायसी की भाषा के माध्यम से अवध क्षेत्र में बोली जाने वाली भाषा से परिचित हो पाएंगे ।
- प्रेम जैसे उदात्त मानवीय मूल्य के महत्व से परिचय के साथ विद्यार्थी के भीतर-  
| संवेदनशीलता का विकास होता है

### सूरदास गीत सार-भ्रमर :

- विद्यार्थी कृष्णभक्ति साहित्य के स्वरूप से परिचित हो पायेंगे ।
- गोपियों के कृष्ण के प्रति व्यक्त अनुराग के माध्यम से प्रेम की महत्ता से परिचित हो पायेंगे ।
- गोपियों की वक्तृत्वकला के माध्यम से ब्रजभाषा की खुबसूरत शब्दावली से उनका परिचय बढ़ेगा ।

### तुलसीदास सुन्दरकाण्ड , रामचरितमानस :

- रामचरितमानस में व्यक्त लोकजीवन के माध्यम से विद्यार्थी लोक के विविध संबंधों से परिचित हो पायेंगे ।
- दोहाचौपाई से युक्त कडव-कबद्ध काव्यशैली से परिचित हो पायेंगे ।
- अवधी भाषा के माध्यम से अवध व्यवहार-क्षेत्र की शब्दावली तथा लोक-  
| से परिचित हो पायेंगे
- तुलसी| काव्य के साहित्यिक महत्त्व से परिचित हो पायेंगे -

### घनानंद पदावली-

- रीतिकालीन स्वछन्द काव्यधारा से परिचित हो पायेंगे ।
- घनानन्द के काव्य में व्यक्त प्रेम की मार्मिकता से परिचित होंगे ।
- कविता में विविध अलंकारों के प्रयोग से उत्पन्न काव्य सौन्दर्य से-  
| परिचित होंगे
- ब्रजभाषा के स्वरूप तथा शब्दावली से परिचित होंगे ।
- श्रृंगार रस के वियोग पक्ष की मार्मिकता से परिचित होंगे ।

## द्रुत पाठ-

- विद्यापति | रसखान के जीवन और साहित्य से परिचित होंगे, रहीम,
- उनके काव्य की बनावट तथा विविध छंद -रूपों का ज्ञान बढेगा |
- अलग| अलग भाषाओं के स्वरूप से परिचित होंगे-

## **कक्षा- पत्र-बी ए प्रथम वर्ष**

## **प्रश्न -द्वितीय ,हिन्दी कथा साहित्य**

### गबन उपन्यास

- हिन्दी उपन्यास में प्रेमचंद के महत्व से परिचित होंगे |
- उपन्यास की बनावट तथा तत्वों से परिचित होंगे |
- जालपा के चरित्र के माध्यम से परम्परागत स्त्री जीवन में आभूषण के महत्व की -  
| स्थिति का विश्लेषण करने में सक्षम होंगे
- मनुष्यजीवन की विभिन्न मनोवैज्ञानिक स्थ-ितियों से परिचित होंगे |

### कहानियाँ

- हिन्दी कहानी के उद्भव विकास तथा कहानी| कला के तत्वों से परिचित होंगे-
- हिन्दी कहानी के विविध स्वरूप से परिचित हो पाएंगे |
- सामाजिक स्थितियों में बदलाव के साहित्य पर पड़ने वाले असर की समीक्षा करने में सक्षम हो जायेंगे |

### आकाशदीप कहानी-

- जयशंकर प्रसाद की कहानी -कला से परिचित होंगे |
- चम्पा के चरित्र के माध्यम से स्त्री जीवन की स्वतंत्र चेतना तथा दृढ़ता से-  
| परिचित होंगे
- प्रेम के उदात्त स्वरूप से परिचित हो सकेंगे |

### कफ़न कहानी-

- प्रेमचंद की कहानी के यथार्थवादी स्वरूप से परिचित हो पायेंगे |
- निम्नवर्ग के निरंतर शोषण से उपजी संवेदनहीनता और अमानवीयता का विश्लेषण करने में सक्षम होंगे |

- मनुष्य जीवन में निरंतर क्षरित होते जा रहे मानवीय-मूल्यों के पीछे छिपी परिस्थितियों और सच्चाइयों का विश्लेषण कर पायेंगे ।

### परदा कहानी-

- यशपाल के कथा-साहित्य की समाजवादी धारा से परिचित होते हैं।
- इज्जत और दिखावे के झूठे जाल फंसे में निम्न मध्य वर्ग की- मनोवैज्ञानिक परिस्थितियों की सच्चाई का विश्लेषण करने में सक्षम
- निरंतर बढ़ती मंहगाई के कारण बद्दहाल होती जा रही आर्थिक स्थिति से परिचित हो पायेंगे ।

### ठेस कहानी-

- फणीशवर नाथ रेणु के कथा साहित्य की आंचलिकता से परिचित हो- पायेंगे ।
- कलाकार के जीवन के आत्मसम्मान और कला के अपमान से लगने वाली ठेस को समझ पायेंगे तथा कला के महत्व से परिचित हो पायेंगे ।
- कलाकार के मजदूर बनते जाने की परिस्थितियों से परिचित हो पायेंगे तथा विद्यार्थी के भीतर मानवीय मूल्यों के विकास में सहायक बन पायेंगे ।

### चीफ़ की दावत - भीष्म साहनी

- इस कहानी के माध्यम से छात्राएं संयुक्त परिवार के टूटने और न्यूक्लियर परिवार में माँ बाप के अवांक्षणीय होते जाने की-
- यह कहानी पूंजीवाद के प्रभाव में रिश्तों को कमोडिटी में बदलने की त्रासदी को व्यक्त करती है ।

गदल रांगेय राघव-

- 'गदल' कहानी के माध्यम से हम प्रेममें आत्मपीड़न, समर्पण और उत्सर्ग जैसे भाव को महसूस करते हैं।
- 'गदल' कहानी के माध्यम से छात्राएं स्त्री विमर्श के सर्वथा भिन्न रूप से परिचित होती हैं।

जली हुई रस्सी -गुलशेर खाँ शानी

- इस कहानी में छात्राएं मनुष्य के बदली हुई स्थितियों से ताल मेल न-बिठा पाने के मनोविज्ञान से परिचित होती हैं।
- कहानी यथार्थ का सामना करने का सन्देश देती है।

## कोर्स आउटकम

कक्षा- बी ए द्वितीय वर्ष  
हिन्दी काव्य

विषय-हिन्दी साहित्य प्रश्न अर्वाचीन, प्रथम-पत्र-

आधुनिक आधुनिकता और नवजागरण के अध्ययन के द्वारा छात्राओं में वैज्ञानिक सोच का,  
| आधुनिक हिन्दी कविता से विद्यार्थी का परिचय बढ़ता है | विकास होता है

मैथिलीशरण गुप्त -भारत भारती-

- द्विवेदी युगीन कविता की प्रवृत्तियों से परिचित होंगे।
- भारत -भारती के माध्यम से विद्यार्थी भारतीय संस्कृति के गौरवकारी अतीत से परिचित हो पायेंगे।

सूर्यकांत त्रिपाठी - 'निराला' कविताएँ

- छायावादी कविता की बनावट तथा निराला के काव्य में निहित मानवीय मूल्य से परिचित होंगे।
- तोड़ती पत्थर कविता के माध्यम से निराला काव्य में निहित प्रगतिवादी चेतना के स्वरूप से परिचित होंगे इसके साथ ही शोषक और शोषित के।

अर्थ से परिचित होते हुए समाज की स्थिति का विश्लेषण करने में सक्षम  
| हो पायेंगे

सुमित्रानंदन पन्त -कविताएँ

- पन्त के काव्य में निहित प्रकृति की सुकुमार कल्पना से परिचित हो पायेंगे |
- प्रकृति के विविधता -परक स्वरूप का परिचय प्राप्त करते हुए प्रकृति के मानवीय रूप को समझ पाने में सक्षम होंगे |
- छायावादी भाषा के सौन्दर्य से परिचित होंगे |

माखन लाल चतुर्वेदी -कवितायें

- माखन लाल चतुर्वेदी के व्यक्तित्व व कृतित्व के अध्ययन के माध्यम से विद्यार्थी स्वतंत्रता -आन्दोलन की गतिविधि तथा उसमें माखन लाल चतुर्वेदी के योगदान से परिचित हो सकेंगे |
- हिन्दी साहित्य की राष्ट्रीय सांस्कृतिक धारा के स्वरूप से-परिचित होंगे तथा स्वतन्त्रता आन्दोलन के साहित्य पर पड़ने वाले प्रभाव से परिचित होंगे |

सच्चिदानन्द हीरानंद वात्स्यायन -'अज्ञेय'कवितायें

- हिन्दी साहित्य की प्रयोगवादी धारा के उदय की परिस्थितियों और कारणों का विश्लेषण करने में सक्षम हो पाएंगे |
- अज्ञेय की कविताओं के माध्यम से व्यक्तिवाद और अस्तित्ववाद के स्वरूप से परिचित हो पायेंगे |

द्रुत -पाठ

- हरिऔध सुभद्रा कुमारी चौहान श्रीकांत वर्मा के व्यक्तित्व,  
| और साहित्य से परिचित होंगे
- हिन्दी कविता की विविध प्रवृत्तियों से परिचित हो पायेंगे |

कक्षाबी ए द्वितीय वर्ष- प्रश्न हिन्दी निबंध तथा अन्य गद्य विधाएं ,द्वितीय-पत्र-



## नाटक -

- आधुनिक हिन्दीसाहित्य में गद्य की विभिन्न विधाओं के उद्भव तथा विकास की प्रक्रिया को समझने के साथ विद्यार्थी नाटक के विकास और उसमें भारतेंदु हरिश्चंद्र के योगदान से परिचित होंगे ।

## अंधेर नगरी -भारतेंदु हरिश्चंद्र

- भारतेंदु हरिश्चंद्र की नाट्यकला से परिचित होंगे ।
- अंधेर नगरी नाटक के माध्यम से विद्यार्थी अंग्रेजी शासन के दौरान भारतीय समाज में व्याप्त बुराइयों और अंगरेजी राज की नीतियों को समझने में सक्षम हो पायेंगे ।
- खड़ी-बोली के प्रारम्भिक स्वरूप से परिचय प्राप्त करेंगे ।

## एकांकी -

- एकांकी के उद्भव और विकास की स्थितियों से परिचित होंगे ।  
| इसके साथ ही एकांकी के विविध तत्वों से परिचय प्राप्त करते हैं
- पाठ्यक्रम में कुल अलग-जो अलग , एकांकी संकलित हैं 5  
| विशेषताओं से युक्त हैं
- इनके माध्यम से विद्यार्थी इतिहास की घटनाओं को समझने के साथ-  
-मानव,बाना-भारतीय समाज का ताना, पुरुष संबंधों-साथ स्त्री  
| वभाव की विविध प्रवृत्तियों से परिचय प्राप्त करते हैं्स

## निबंध -

- विद्यार्थी निबंध साहित्य के उद्भव और विकास से परिचित होंगे ।
- पाठ्यक्रम में कुल पाँच निबंध संकलित हैं अलग-जो अलग,  
इनके माध्यम से विद्यार्थी लेखन कला की । विशेषताओं से युक्त हैं  
| शैलियों से परिचित हो पाते हैं
- क्रोध निबंध के माध्यम से क्रोध जैसे मनोविकार के उत्पन्न होने की स्थितियों तथा उसके स्वरूप से परिचित होते हैं ।

- बसंत निबंध के माध्यम से विद्यार्थी मनुष्य के जीवन की स्थितियों पर आधारित उसकी आंतरिक मनोदशा के खालीपन के सम्बन्ध को समझ पायेंगे ।
- के माध्यम से ग्रामीण जीवन के 'राम कहीं है-उस अमराई ने राम' |महत्व तथा समय की व्यापकता से परिचित हो पायेंगे
- काव्येषु नाटकं रम्यम निबंध के माध्यम से विद्यार्थी नाट्य साहित्य- | के महत्व व उपयोगिता से परिचित होंगे
- बेईमानी की परत निबंध के माध्यम से हरिशंकर परसाई की व्यंग्य कला से परिचित होंगे तथा समाज को नए नजरिये से देखने - समझने में सक्षम हो पाते हैं ।

.B.A तृतीय वर्ष- प्रथम प्रश्न-पत्र- जनपदीय भाषा -साहित्य -पेपर कोड ( छत्तीसगढ़ी)

0233

इस पेपर के अध्ययन से छात्राएं-

- 1 छत्तीसगढ़ी भाषा के इतिहास और विकास का ज्ञान प्राप्त करती हैं ।
- 2 छत्तीसगढ़ी भाषा के साहित्य और इतिहास का ज्ञान प्राप्त करती हैं -3 ।  
इस पेपर में कुल पांच नए पुराने लेखक व कवियों की रचनाएँ संकलित है जिसके माध्यम-

-4 छत्तीसगढ़ी लोक परंपरामुहावरों से उनका परिचय ह ,कहावतों , त्यौहारों ,ोता है जिससे उनके मन में अपनी संस्कृति की एक मुकम्मल तस्वीर बनती है ।

**द्वितीय प्रश्न-पत्र- हिन्दी साहित्य का इतिहास तथा काव्यांग विवेचन पेपर कोड 0234-**

- इस पेपर के अध्ययन से विद्यार्थी हिंदी भाषा की उत्पत्ति तथा उसके विकास से परिचित होते हैं ।

- वे हिन्दी भाषा के विविध रूपों जैसे बोलचाल की भाषा ,साहित्यिक भाषा ,  
| राष्ट्र भाषा आदि को समझकर इनके बीच अंतर करना सीखते हैं ,राजभाषा
- हिन्दी भाषा के विपुल शब्द भंडार से उनका परिचय होता है वे भाषा की |  
| समृद्धि के कारकों की पड़ताल करने में सक्षम होते हैं
- हिन्दी साहित्य के इतिहास का अध्ययन करते हुए छात्र हिन्दी साहित्य की  
शुरुआत| उसकी सामाजिक सांस्कृतिक पृष्ठभूमि से परिचित होते हैं ,
- काल विभाजन व नामकरण की समस्या का ज्ञान प्राप्त करते हैं |
- आदिकाल आधुनिक काल की सामाजिक सांस्कृतिक ,रीतिकाल ,भक्तिकाल ,  
पृष्ठभूमि केसाथ इनकी युग प्रवृत्तियों का ज्ञान प्राप्त करते हैं |
- विभिन्न समयों में हुए प्रमुख साहित्यकारों व उनकी रचनाओं से उनका परिचय  
होता है |
- काव्यांग विवेचन के अंतर्गत विद्यार्थी रस अलंकार के विविध रूपों से ,छंद ,  
| परिचित होते हैं
- दरअसल अपनी भाषासाहित्य और उसक ,े इतिहास का ज्ञान होना हर सजग  
नागरिक के लिए आवश्यक है इसके अध्ययन से हम अपने देश और उसकी |  
| संस्कृति की वास्तविक पहचान कर पाने में सक्षम बनते हैं

### **COURSE OUTCOME**

#### **B.A, B.SC, B.COM FIRST YEAR (आधार पाठ्यक्रम -हिंदी भाषा (**

यूनिट 1-इस यूनिट का अध्ययन कर विद्यार्थी किसी भी पारिभाषिक शब्द या लोकोक्ति का पल्लवन लेखन की सैद्धांतिकी व उसके-वे सरकारी पत्र | करना सीखते हैं (विस्तार) विज्ञान के अंतर्गत विद्यार्थी अनुवाद करने-अनुवाद | व्यावहारिक ज्ञान से परिचित होते हैं की कला सीखते हैं |

प्रेमचंद की कहानी ईदगाह के माध्यम से विद्यार्थी बाल मनोविज्ञान व संवेदनशीलता से परिचित होते हैं |

यूनिट 2-इस यूनिट में विद्यार्थी शब्द शुद्धि विलोम व ,पर्यायवाची शब्द , वाक्य शुद्धि , भारत वंदना कविता के माध्यम से वे देश | अनेकार्थी शब्द सीखते हैं प्रेम की भावना को महसूस करते हैं |

यूनिट इस यूनिट में विद्यार्थी देवनागरी लिपि के इतिहास व उसकी विशेषताओं से 3 व्यवहार में-वे संक्षिप्तीकरण सीखते हैं जो कि आज के दैनिकीन कार्य | परिचित होते हैं ' | अत्यंत आवश्यक है भोला राम का जीवनामक व्यंग्य कहानी के मा 'ध्यम से वे कर्णालाओं में फैली घूसखोरी| लालफीताशाही से रूबरू होते हैं ,

यूनिट इस यूनिट में विद्यार्थी कंप्यूटर और उसमें हिन्दी भाषा के प्रयोग के बारे में 4 - | वे स्वामी विवेकानंद की शिक्षा आदि के प्रति गंभीरता से भी परिचित होते हैं | सीखते हैं

यूनिट 5-इस यूनिट में विद्यार्थी मानक भाषा का ज्ञान प्राप्त करते हैं तथा सामाजिक गतिशीलता से परिचित होते हैं |

b.a, b.s.c, B.COM sceond YEAR (आधारपाठ्यक्रम-हिंदीभाषा(यूनिट-1 )

क (इस यूनिट के अंतर्गत विद्यार्थी कार्यालय में प्रयोग की जाने वाली भाषा की बारी कियों सीखते हैं|

ख (मीडिया में प्रयोग की जाने वाली भाषा से उनका परिचय होता है|

ग(चोरी और प्रायश्चित्त निबंध में वे गाँधी जी के अनुभव से परिचित होकर जीवन का बहुमूल्य सबक सीखते हैं|

यूनिट-2) क (इस यूनिट में विद्यार्थी वित्त व वाणिज्य के क्षेत्र में प्रयुक्त भाषा का स्वरूप सीखते हैं| उन्हें मशीनी भाषा का भी ज्ञान कराया जाता है|

ख(आचार्य नरेन्द्र देव के निबंध 'युवको का समाज में स्थान 'का अध्ययन का छात्र समाज में युवकों की भूमिका और उनके कर्तव्य से अवगत होते हैं|

यूनिट-3

क (इस यूनिट का अध्ययन कर विद्यार्थी व्याकरण की कोटियों यथा संज्ञा, सर्वनाम, विशेषण, क्रिया विशेषण का ज्ञान प्राप्त करते हैं जिससे उनका भाषा ज्ञान बेहतर बनता है|

ख(वासुदेव शरण अग्रवाल के निबंध मातृभूमि का अध्ययन कर इस विशाल भारत भूमि की आभा से परिचित होते हैं।

#### यूनिट-4

क(इस यूनिट के अंतर्गत भाषा ज्ञान को और उन्नत करने हेतु विद्यार्थी व्याकरण की कोटियों समास व संधि को सीखते हैं।

ख (हरी ठाकुर के निबंध डॉ .खूबचंद बघेल का अध्ययन कर विद्यार्थी छत्तीसगढ़ की माटी के लाल, स्वतंत्रता संग्राम सेनानी खूबचंद जी के योगदान से परिचित होते हैं।

#### यूनिट-5

क (इस यूनिट के अंतर्गत छात्र अनुवाद की बारीकियां सीखते हैं।

ख(संभाषण कुशलता निबंध का अध्ययन कर वे संभाषण की बारीकियों से परिचित होते हैं।

B.A, B.SC, B.COM THIRD YEAR (आधार पाठ्यक्रम-हिंदी भाषा)

#### यूनिट-1

इस यूनिट के अंतर्गत विद्यार्थी भारत माता कविता के माध्यम से अंग्रेजों की गुलामी में जी रहे भारतवासियों की स्थिति से परिचित होते हैं तथा कथन की विविध शैलियों का प्रयोग सीखते हैं।

#### यूनिट-2

इस यूनिट के अंतर्गत विद्यार्थी सूखी डाली एकांकी के माध्यम से संयुक्त परिवार की संरचना को समझ सकते हैं तथा भाषा की विविध संरचनाओं जैसे विनम्रतासूचक, दिशाबोधक अदि का ज्ञान प्राप्त करते हैं।

#### यूनिट-3

इस यूनिट के अंतर्गत विद्यार्थी कार्यालय में प्रयुक्त होने वाले पत्रों जैसे परिपत्र, आदेश, अनुस्मारक आदि को लिखना सीखते हैं जो कि कार्य क्षेत्र में जाने पर बहुत उपयोगी साबित होता है। मालती जोशी की कहानी व सीयत के माध्यम से छात्र मानवीय संवेदना व मजबूरियों से परिचित होते हैं।

## यूनिट -4

इस यूनिट के अंतर्गत में विद्यार्थी अनुवाद की बारीकियों को सीखते हैं तथा योग की शक्ति से उनका परिचय होता है।

## यूनिट -5

इस यूनिट के अंतर्गत विद्यार्थी प्रतिवेदन व निमंत्रण-पत्र लिखना सीखते हैं। योगेश अटल के निबंध संस्कृति व एकीकरण के माध्यम से वे संस्कृति की वास्तविक समझ विकसित कर सकते हैं।

# Department of English

Course Outcome of BA I part one

Paper - 1 English literature

Unit - 1 Annotations:-

Unit - 2 Poetry:-

Student will be able to learn about the collection of sonnet of Shakespeare that is sonnet no: 1 & sonnet no : 154 and the little love of God, about poetry of Milton and poetry of John Donne.

Unit - 3 Poetry :-

Student will be able to familiarize with the selection of texts written in the English language and able to critically examine the prescribed poems by major writers like John Dryden, Alexander Pope.

Unit - 4 Prose :-

Student will be able to understand ideas about essays of Bacon - of studies, of health, of friendship and about vacation of Addison - Sir Roger at home.

Unit - 5 Drama :-

Student will be able to examine the process of characterization, thematic significance and dramatic techniques employed by the participants and student will be able to study the plays keeping in the mind distinctive features. of the dramatic form followed by major dramatist Shakespeare.

#### Unit- 6 Fiction :-

Student will be able to examine the genre of the novel and the short story and they will learn a great sense of English literature produced and its key generic concerns .

#### Unit - 7 Historical and literary topics.

Student will be able to learn about literary historical topic and its key generic concerns like Renaissance , Humanism ,Reformation, Restoration etc.

### **Course Outcome of BA -1**

#### **Paper - 2 English literature**

##### Unit - 1 Annotations

##### Unit - 2 Poetry

Student will be able to familiarize with selection of texts written in English language and able to critically examine the prescribed poems by writers like Blake- tiger, Tiger Burning Bright, Words worths - Daffodils and solitary reapers and Coleridge - frost at midnight.

##### Unit - 3 Poetry

Student will be able to learn with selection of texts written in English language and able to critically examine the prescribed poems by writers like Shelley, Keats, Tennyson, Browning.

##### Unit - 4 Prose :-

Student will be able to learn about the essay of Charles Lamb - Dream children. A reverie and about William Hazlitts essay of on actors and acting.

##### Unit - 5 Fiction :-

Student will be able to examine the genre of novel and the short story of Jane Austen.

### Unit - 6 Fiction :-

Student will be able to examine the genre of novel and the short story of Charles Dickens.

### Unit - 7 Historical and Literary topics.

Student will be able to learn about Historical and literary topics and its key generic concerns like the reform Acts, The Impact of industrialization, colonialism and Imperialism etc.

## **Course Outcome BA - 2 English literature**

paper - 1

### Unit- 1 Annotations :-

### Unit - 2 Poetry :-

Student will be able to familiarize with the selection of texts written in English language and able to critically examine the prescribed texts of W.B. yeats - A prayer for my Daughter, The second coming ,T.S. Eliot, Love song of J- Alfred Pruforck

### Unit - 3 Poetry :-

Students will be able to familiarize with the selection of texts written in English language and able to critically examine the prescribed texts of Dylan Thomas , Lament , A Refusal to mourn the Death and Larkins - Toads. at Grass.

### Unit- 4 Prose :-

Student will be able to understand ideas about essays of Bertrand Russel -On the value of skepticism and the collection of stories for children by Oscar Wildethe Happy Prince.

### Unit - 5 Drama :-

Student will be able to examine the process of characterization, thematic significance and dramatic techniques employed by the participants and



student will be able to study the plays keeping in the mind distinctive features of the dramatic form followed by G.B. Shaw - Pygmalion.

#### Unit - 6 Fiction :-

Student will be able to examine the genre of novel and short story and they will learn a great of English literature produced and its key generic concerns of Rudyard Kipling and Katherine Mansfield.

#### Unit - 7

Student will be able to understand the forms of poetry and morality and miracle play. One Act play and interlude.

### Course Outcome of BA - 2 English literature

#### paper - 2

#### CO1 History of english literature

Enablement of the student is to understand the range, significance and scope of english literature and the growth and evolution of the language.

#### CO2 Poetry from romantic age to modern age

By dint of special texts of english literature, a holistic development of an understanding of english poetry.

#### CO3 Drama

Through the reading of some specific literary texts, empowerment of the students to examine the themes and structures of elizabethan drama and anti-sentimental comedy and get acquainted with relevant literary terms.

#### CO4 Novel, Essay and short stories

Advancement of their acquaintance with finction and non-fiction of writers and learn the relevant literary terms through exposure to various texts from across the literary age.

#### CO5 Indian Writings in english

A holistic idea of the distinctive features of indian writing in english and their history through the texts and contents of prose and poetry by indian authors. Development of self - expressing through various skills of creative

writing. Awareness towards the problems of interpreting Indian culture, the English language and acquaintance with the work of significant Indian writers of poetry, prose, fiction and drama.

### CO6 American Writing

Acquaintance towards the features of American culture and the work of significant American writers of poetry, prose, fiction and drama from across a wide range of literary history.

### Course outcome of BA -3 English literature

#### Paper 1 Indian writings in English

##### Unit - 1 Poetry :-

Student will be able to learn about the contribution of Indian writers in English literature such as Toru Dutt - Our Casuarina tree, Rabindranath Tagore - songs 1&103 from Gitanjali, Sarojini Naidu The Ecstasy the lotus.

##### unit - 2 Poetry :-

Student will be able to learn about the Indian writers contribution towards poetry in English literature such as Kamala Das - The old play house , Gauri Das Pandey- The female of the species, Jayant Mahapatra - Dawn at Puri, K.N. Daruwala- Drath by Burial, Shivk. Kumar - Indian women.

##### Unit - 3 Prose :-

Student will be able to understand the writings of Indian writers in prose such as Nirad C. Chaudhary - My Birth place , Dr. S. Radhakrishna- The call of the suffering.

##### Unit - 4 Drama :-

Student will be able to examine the process of characterization, thematic significance and dramatic techniques of Girish Karnad - Hayavadana, Tendulkar Silence ! The court is in session.

##### Unit- 5 Fiction:-

Student will be able to examine the genre of the novel and short story and they will learn a great sense of English literature produced and its key generic concerns of R.K Narayan's guide.

## Unit - 6 :-

Student will be able to know all the forms of English literature such as lyric , Subjective poetry, couplet, fable etc.

## Course outcome of BA -3 English literature

(A) American literature paper - 2

### Unit - 1 Poetry :-

Student will be able to familiarize with the selection of texts of American writers such as Walt Whitmen and Carl Sandberg

### Unit - 2 poetry :-

Student will be able to familiarize with the selection of text such as family Dickinson, and E.E. Cummings.

### Unit - 3 Prose :-

Student will be able to understand ideas about prose writers of American literature William Faulkners, W. Carlos Williams , Walt Whitman.

### Unit - 4 Drama :-

Student will be able to examine the process of characterization thematic significance and dramatic techniques of miller & Eugene O Neil.

### Unit - 5 Fiction :-

Student will be able to examine the genre of novel and short story and they will learn a great sense of English literature produced and its key generic concerns of E. Hemingway and W. faulkner.

## Unit - 6 :-

Student will be able to understand about major forms of English literature by American writers such as Naturalism, Realism etc.

## Course specific Outcome of BA 3 English literature

paper - 2

(B) (Twentieth century literature in English literature )

unit - 1 Poetry :-

Student will be able to learn about the major poet such as W.B. yeats, Sasson, Brooke, Eliot, Owen ,Auden , MacNeice etc.

Unit- 2 :- Student will be able to learn about major topics of English literature about Twentieth century such as Two world wars. The Russian Revolution etc.

Unit - 3 :- Student will be able to know about major prose writers of Twentieth century such as T.S Eliot, The Waste land, Wilfred Owen -Disabled, sasson- Attack, Falling Asleep, Rupert Brooke - The hill, W.H. Auden - Miss Gee.

Unit - 4 :- Student will be able to learn about Joseph conrad - heart of darkness and Chinua Achebe- Things fall a part.

Unit -5:- Non Fictional prose

Student will be able to develop their skills to critically analyze the non- fictions and able to have an opportunity to write essays on various subject matters.

Unit - 6 Drama

Student will be able to examine the process of characterization, the thematic significance and dramatic techniques of Bernard shaw : Pygmalion, Samuel Beckett- waiting for godot.

### **Course outcome of B.A.1 / B.Com 1/ B.Sc 1 English language**

Unit 1 - Student will be able to learn about grammar and vocabulary text in objective and multiple choice tests.

Unit 2 - Student will be able to learn about an understanding of the passage in question, but also a grasp of general language skills and issues with reference to words and usage within the passage.

Unit 3 - Student will be learn about paragraph writing, expansion of ideas and the structure of paragraph.

Unit 4 - Student will be able to learn about types of letter writing and their format.

Unit 5 - Student will be able to grasp the contents of each lesson, specific words, phrases and allusions and comment on general points of narrative or argument formal principles of literary criticism. They will be able to acquire knowledge about Indian culture and tradition.

### **Course outcome of B.A.2 / B.Com 2/ B.Sc 2 English language**

Unit 1 - Student will be able to grasp the contents of each lesson, specific words, phrases and allusions and comment on general points of narrative or argument formal principles of literary criticism. Student will be able to learn about matter & technology and our scientists & institutions.

Unit 2 - Student will be able to learn about an understanding of the passage in question, but also a grasp of general language skills and issues with reference to words and usage within the passage.

Unit 3 - Student will be able to learn about how to write a report on the specific matter.

Unit 4 - Student will be able to learn about paragraph writing, expansion of ideas and the structure of paragraph.

Unit 5 - Student will be able to learn about grammar and vocabulary text in objective and multiple choice tests.

### **Course outcome of B.A.3 / B.Com 3/ B.Sc 3 English language**

Unit 1 - Student will be able to grasp the contents of each lesson, specific words, phrases and allusions and comments on general points of narrative or argument formal principles of literary criticism. Student will be able to learn about minimum needs housing and transports, Geo-economic profile of M.P. women and empowerment, management of change, physical quality of life, war and human survival, democratic decentralization ( with reference to 73, 74 constitutional amendment ) .

Unit 2 - Student will be learn about paragraph writing, expansion of ideas and the structure of paragraph.

Unit 3 - Student will be learn how to write precis writing and the format of precis writing.

Unit 4 - Student will be able to learn about an understanding of the passage in question, but also a grasp of general language skills and issues with reference to words and usage within the passage.

Unit 5 - Student will be able to learn about grammar and vocabulary text in objective and multiple choice tests.

## Department of Commerce

### Course Outcomes

#### (1) Financial Accounting :-

Unit - 1 Student will learn the accounting principles, concepts and convention and to indentify various subsidiary books in accountancy and GST also.

Unit - 2 Students will analyses what bank reconciliation statement is and understand about rectification of errors and suspense account and trial balance.

Unit -3 Students will learn about the various methods of calculating depreciation.

Unit - 4 Students will understand the methods of calculating trading P/L , A/C & balance sheet and also learns the methods of hire - purchase system.

Unit - 5 Students will learn the methods of preparing realization A/C partners capital A/C and journal entries the dissolution of the firm.

Conclusions- Overall students will learns about various concept of Accounting like journal entries , trial balance P/L, A/C, B/S, Dep; hire purchase system and Dissolution of the partnership firm.

#### (2) Corporate Accountings :-

Unit - 1 Students will understand the procedures for the issue of shares debentures and preference share's and also procedures for the redemption of debenture and re-issue of debentures and shares.

Unit - 2 Students will learn the concept of financial statements of companies and prepare financial statement of companies and Balance sheet.

Unit - 3 Students will understand the concept of purchase consideration and calculate purchase consideration in case of Amalgamation Absorption and reconstruction.

Unit - 4 Students will learn Identify the methods of valuation of good will and shares and also clear the concept of goodwill and shares.

Unit - 5 Students will understand the concept of consolidation balance sheet and preparing balance sheet.

Conclusion - Overall Student will learn about companies like share's Debentures financial statement and concept about calculating goodwill shares purchase considerations & consolidated B/S.

(3) Income Tax :-

Unit - 1 Students will understand the features and history of income tax in India Basic concept, Income person, gross total income, total income, income exempted from tax and Residential status.

Unit - 2 Agriculture Income & Income from salary students will understand the Introduction definition and computation of tax an Integration process, and students also know about allowances, Deduction computation of income from salary and income from house property.

Unit - 3 Income from other sources - student will learn about general incomes & specific incomes, Interest on securities Dividend on shares casual income family pension gift received and other general incomes including deductions

Unit - 4 Student will learn the impact of company income tax, revenue on Developing Economics and the procedure problem and prospects of personal income tax Administration.

Unit -5 Student will learn about aware the income tax authorities and their power and duties and assessment of individuals.

Conclusion :- Overall student will learn about the various concept of calculating different types of income, house property and Agriculture.

(4) Indirect Tax :-

Unit - 1 Students will learn about central excise duty - Introduction Registration classification of Goods penalties Appeals and Revision and valuation of excise - duty.

Unit - 2 Customs Duty - Introduction, Definition penalties and prosecutions impact - Export procedure. Export promotion, schemes and valuation of calculation of custom Duty.

Unit - 3 Central sales Tax - Introduction important terms under central sales tax Registration of dealers penalties and prosecution and Determination of Gross turnover, Taxable Turnover and Tax.

Unit - 4 Chhattisgarh Excise Duty - Brief History and important Definitions, Establishment structure and control. Manufacture, collection and sale. Licenses permits and passes and Duties and fees.

Unit - 5 Chhattisgarh VAT ACT and commercial tax - VAT system basic concept tax liability, Registration of dealers input tax rebate exempted Goods Assessment produce, penalties and prosecutions and computation of taxable turnover.

Conclusion :- Overall student will learn about central excise duty, custom duty central sales tax excise duty and C.G. VAT ACT, Commercial tax.

(5) Business Communication :-

Unit - 1 :- Introduction to business communication :- Students will learn about the basic forms of communication process, Effective communication, Development of positive personal attitudes. swot analysis.

Unit - 2 :- Corporate communication - students will learn formal and informal communication network, Barriers of communication improving communication group Discussion seminar. Mock interview.

Unit - 3 :- Student will learn principles of effective communication and different types of communication.



Unit - 4 :- Writing will learn drafting of business letter sales letter, office memorandum, memo formats Application for job enquiry letter, Request letter, Report writing.

Unit - 5 :- Communication skills - Students will learn listening skills interviewing skills and speaking skills and its Principles.

(6) Business Economics -

Unit - 1 :- Students will learn about the basic problems of an economy working of price mechanism, elasticity of demand. Concept and measurement of elasticity of demand, price income and cross elasticity, Average revenue marginal revenue and elasticity of demand, Determinates of elasticity of demand importance of elasticity of demand.

Unit - 2 :- Students will learn about the production function law of variable proportions ISO - quants , Expansion path returns to scale, Internal and external economics and diseconomies.

Unit - 3 :- Students will learn about the theory of costs, short run and long run cost curves - Traditional and modern approaches Market structures and business firm - perfect competition, Monopoly.

Unit - 4 :- Student will about market structure - monopolistic competition and oligopoly.

Unit - 5 :- Students will know about factor pricing like marginal productivity theory and demand for factors, Nature of supply of factor input Determination of wage rates under perfect competition and monopoly, Exploitation of labor.

(7) Auditing

Unit - 1 :- Students will know about the meaning and objectives of auditing types of audit, internal audit, audit process audit programme. Audit note books, working papers and evidences.

Unit - 2 :- Students will learn about internal check system, internal control Audit procedure , Vouching ; Verification of assets and liabilities.

Unit - 3 :- Students will understand about - Audit of limited companies :- company auditor, Divisible profits and dividend , Audit report, special audit of banking companies Audit of insurance companies.

Unit - 4 :- Students will know about investigation Audit of non profit companies :- Where fraud is suspected and when a running a business is proposed. Verifications & valuation of assets.

Unit - 5 :- Students will understand the recent trends in Auditing ; Nature and significance of cost audit Tax audit management audit, company auditing, Qualifications, Appointment ,Resignation and liabilities.

#### (8) Company Law :

Unit - 1 :- Students will learns about corporate personalities ; kinds of companies, Nature & scope promotion on and Incorporation of companies.

Unit - 2 :- Students will understand about memorandum Association , Article of Association, Prospectus shares, share capital, Transfer and Transmission.

Unit - 3 :- Students will learn about Capital Management, Borrowing Powers, Mortgages and charges Debentures Directors :- Managing Director, whole time Director, Appointment Remuneration and Duties.

Unit - 4 :- Students will know about company meeting : kinds, Notice Quorum, Voting, proxy Resolutions ,Minutes.

Unit - 5 :- Student will learn about majority power and minority Rights prevention of oppression and mismanagement, winding up - kinds and conduct.

### Bcom 1<sup>st</sup> year

#### Business mathematics :-

Unit -1 :- Student will learn the simultaneous equations concept and linear programming, graphical method, relating to two variable including the case of mixed constraints.

Unit -2 :- Understand the matrices and determinants calculation of values and concepts logarithms & Antilogarithms.

Unit -3 :- Understand the methods of calculating simple interest and compound interest, Annuities, valuation of simple loans and debentures, sinking funds.

Unit -4 :- Student will learn about various methods of ratio, proportion, average and percentage.

Unit -5 :- Understand the commission brokerage, discount, profit and loss, Transportation problem.

Conclusion :- Student learn about simultaneous equation, linear program, matrices, Determinants, annuities, Ratio & Proportion profit & loss etc.

### Business Regulatory Framework

Unit -1 :- Student will learn about the law of contract (1872), offer and acceptance, capacity of parties to contract, legality of object, Agreement declared void, discharge of contract, Remedies for breach of contract.

Unit -2 :- Understand the concepts of special contracts, indemnity, Guarantee, Bailment and Pledge.

Unit -3 :- Student will understand the concept of sales of goods Act (1930), conditions and warranties, transfer of property in goods, performance of the contract of sales, hire purchase agreement.

Unit - 4 :- Student will learn the Negotiable instrument Act (1881), Parties to promissory notes, Bills of exchange Negotiation and Presentment, payment and interest and notice of dishonour.

Unit -5 :- Student will learn about the concept the consumer protection Act 1986, Grievance redressal machinery, Foreign exchange management Act 2000, Right to information Act 2005.

Conclusion :- Student will learn Law of contract (1872), indemnity, Guarantee Bailment and pledge. Sales of goods Act (1930), Negotiable instrument Act (1881), Protection Act (1986), Foreign Exchange management Act 2000, Right to information Act 2005.

### Business Environment :-

Unit -1 :- Student will learn about the Indian business environment , income saving and investment, industry, money, finance, prices.

Unit -2 :- Student will understand the concepts of problem of growth , poverty, Regional imbalance, social injustice, inflation, parallel economy, and industrial sickness.

Unit -3 :- Student will learn about the role of Government, monetary and fiscal policy, Industrial policy, Privatization, Devaluation, Export, import policy and Regulations of foreign investment and collaborations in the lights of recent changes.

Unit -4 :- Understand the concepts of review of previous plans, current five year plan, major policy, and Resources Allocation.

Unit -5 :- Student will learn about the concepts international Environment, Trends in world trade and the problem of developing countries and foreign trade and economic growth, GATT, WTO, world bank, IMF and FDI.

Conclusion :- Students learn about Indian business environment, finance, unemployment, poverty, inflation, International environment, GATT, IMF world bank, WTO etc.

### Fundamentals of Entrepreneurship

Unit -1 :- Student will understand the introduction the entrepreneur, emergence of entrepreneurial class, theories of entrepreneurship, role of socio - economic environment.

Unit -2 :- Understand the entrepreneurial behaviour, innovation and entrepreneur, Entrepreneur behaviour and paycho social responsibility.

Unit -3 :- Student will lean about promotion of a venture, social and technological, competitive factors, legal requirement for funds, venture capital sources.

Unit -4 :- Student will learn the concepts entrepreneurial development progress relevance and achievement and role of government in organizing EDPS.

Unit -5 :- Student will learn about role of entrepreneur, bringing about social stability and balanced regional development of industries and export promotion and import substitution.

### Cost Accounting

Unit - 1 :- Student will understand the concept of introduction of cost A/C methods and techniques, Accounting for material, material control.

Unit - 2 :- Student will understand the Accounting for labour cost control , expenses & overhead and overhead. Apportionment and Absorption (Machine houre rate).

Unit - 3 :- Student will understand the methods single or unit or output costing calculation of quotation , estimate or tender price, job , batch and contract costing.

Unit - 4 :- Student will learn methods of calculating process costing, cost Audit operating cost.

Unit - 5 :- Student will understand the Reconciliation of cost and financial Accounts, Integrated A/C cost control A/C or non - Integrated A/C.

Conclusion :- Student will learn concepts of cost A/C, Accountings for material. Material control, labour cost. overhead quotation, job , batch and contract process costing, operating cost, Reconciliation of cost and financial, Integrated A/C & non Integrated A/C.

### Business Statistics

Unit -1 :- Student will understand the concepts statistics , Descriptive statistics, collection of data, summation operation and rules of sigma E oper, construction of a frequency distribution concepts of contact tendency.

Unit -2 :- Student will learn about method of calculating dispersion and their measures, partition values, skewness and measures.

Unit -3 :- Understand the index number Analysis of Bipartite data, and linear Regression two variables and correlation.

Unit -4 :- Student will learn about index number, and also understand the methods of Analysis of time series.

Unit -5 :- Understand the method of calculating probability theory and business forecasting and method of forecasting demand, industry & company sales forecast.

Conclusion :- Understand the concepts of statistics , collection of data summation, dispersion, measures and Partition values, skewness and measures, index number, Probability theory and forecasting.

### Principles of Business management

Unit -1 :- Student will learn about concept nature. Management rules, an overview of functional area of management, development management thought, concept approuche.

Unit -2 :- Student will understand the concept Planning, concept and bounded rationality, management by objectives , corporate planning, Environment analysis and diagnosis, strategy formulation.

Unit -3 :- Understand the organizing, Authority and resident relationeship, centralization and decentralization, Departmentation, organization structure forms and contingency factors.

Unit -4 :- Student will leans about motivating and leading people at work theories Herzbery, McGregor and ouchi, Financial and non financial incentives, leadership communication.

Unit -5 :- Student will learn about managerial control. effective control system technical control, management of change concept, Emerging horizons of management in environment.

Conclusion :- Student will learn about the concepts management nature roles an overview of functional, planning, organizing, motivating and communication.

## Management Accounting

Unit -1 :- Student will learn about management accounting, tools and techniques of management account, Financial statement, and calculating the methods of ratio, turnover, ratio, Profitability ratio.

Unit -2 :- Understand the method of preparing fund flow statement and cash flow statement.

Unit -3 :- Student will learn about absorption and marginal costing, pricing, Break - even analysis, change of product mix and different costing as a tool for decision making make or buy.

Unit -4 :- Student will learn the concept of Budgeting for profit planning and control and budget & budgetary.

Unit -5 :- Understand the Identify the method of standard costing and variance analysis and labour and overhead variance (two - way analysis).

Conclusion :- Student learn about ratio, cash flow statement and fund flow statement, Absorption and marginal costing, Break - even analysis.