

**SWA. LAXMIBAI ARTS, SCIENCE AND COMMERCE WOMEN'S
COLLEGE, ALLAPALLI**

PROGRAMME OUTCOME – SCIENCE FACULTY

- Student develops the scientific temper.
- Student gains fundamentals of science.
- Student understands the inter-dependability of various sciences.
- Student learns to apply the knowledge on the day to day physical world.
- Student develops a potential to deal with elementary scientific problems with skill.
- Student becomes a part of the scientific drive for the betterment of humanity.

**SWA. LAXMIBAI ARTS, SCIENCE AND COMMERCE WOMEN'S COLLEGE,
ALLAPALLI
DEPARTMENT OF PHYSICS**

Programme specific outcome – UG

- Make students to understand the concepts of basic physics.
- Make students to derive the relation of physics via mathematical expression and try to develop numerical solving ability in them.
- “Learn, how to learn” on this approach of NEP 2020, make students to develop self learning capability in students.

COURSE OUTCOMES :-

B.Sc. Semester I:- Paper I

USPHT01: MECHANICS AND RELATIVITY

After completion of this course students will be able to :

- *Revise the concept of Gravitation, Rotational motion, Oscillation which was part of HSC.*
- *Learn the concept of Laws of motion, Frame of Reference, Centre of mass and there numericals.*
- *Learn to concept of Momentum and Energy, Motion of rockets, collision and numericals based on it.*
- *Learn the concepts of Moment of inertia, Rotational Motion, Conservation of energy and the numericals based on it.*
- *Learn the Concept of Special theory of Relativity, Lorentz transformation and mass energy relation with numericals inculcated with the concept.*

B.Sc. Semester I:- Paper II

USPHT02: Gravitation, Oscillation and Properties of Matter

After completion of this course students will be able to :

- *Understand the concepts related to Gravitation and properties of matter.*
- *Learn about Newtons laws of Gravitation, Gravitational Field and Gravitational potential and numericals based on it.*
- *Learn about Simple harmonic motion, Free, Damped and Forced harmonic Oscillations and numericals based on it.*
- *Learn about Elasticity, Elastic moduli and there relations with each other.*
- *Learn about Viscosity, Bernoulli's theorem, Poiseulle's equation, Surface tension and equation based on it.*
- *Learn to analyze examples related to the concepts.*

B.Sc. Semester II:- Paper I

USPHT03 : Vector Analysis and Electrostatics

After completion of this course students will be able to :

- *Learn the concept of scalar, vectors, operations on vectors.*
- *Learn the concepts of electric field, electric field intensity, electric potential, electric dipole, electric dipole moment with their numericals.*
- *Learn the concepts of Gauss's theorem, Electric potential due to shell, solid sphere etc.*
- *Learn the concept of Effect of Electric field with dielectric medium and numericals associated with it.*

B.Sc. Semester II:- Paper II

USPHT04: Magnetostatics and Electromagnetic Waves

After completion of this course students will be able to :

- *Understands the basic concepts of Magnetostatics and Elecrtomagnetic Waves*
- *Learn Magnetostatics, Biot-Savart law, Ampere's circuital law, Magnetic properties of materials and application associated with it.*
- *Learn about Electromagnetic Induction, Transformer, its Construction and working with numericals based on it.*
- *Learn about Maxwell's equation, nature of Electromagnetic wave and its types along with the problems related to it.*

B.Sc. Semester III:- Paper I

USPHT05: THERMAL PHYSICS

After completion of this course students will be able to :

- *Understand the concept of Kinetic theory of gases, Maxwell's law of velocity distribution.*
- *Understand the concepts of Transport phenomena.*
- *Learn about the concept of Thermodynamics, the terms associated with thermodynamics and numericals based on it.*
- *Learn about the Laws of Thermodynamics, Carnot heat engine, numericals associated with it.*

- *Learn about the thermodynamic functions and their relation with each other, Latent heat and numericals*

B.Sc. Semester III:- Paper II

USPHT06: RADIATION AND STATISTICAL PHYSICS

After completion of this course students will be able to :

- *Understands the Thermal radiation laws and basic concepts of statistical analysis*
- *Learn about the theory of Radiation, Laws associated with it and various numericals.*
- *Learn about the Probability, the terms involved in it, application of probability.*
- *Learn about the Fundamental postulates of statistical mechanics, M-B statistics and Numericals associated with it.*
- *Learn the F-D statistics, B-E statistics and the beautiful mathematics involved in it for better understanding of statistical mechanics.*

B.Sc. Semester IV:- Paper I

USPHT07: WAVES, ACOUSTICS & LASER

After completion of this course students will be able to :

- *Understand the basic concepts Sound Waves, Acoustics and Laser .*
- *Learn basic of superposition principle with the concept of Lissajous figures along its applications.*
- *Learn the wave motion, their types with Fourier theorem, the numericals involved with it.*
- *Learn about the Ultrasonic waves, its properties, terms related to sound.*
- *Learn about the Light, Laser, types of Laser, concept related to their production.*

B.Sc. Semester IV:- Paper II

USPHT08: OPTICAL PHYSICS

After completion of this course students will be able to :

- *Understands the basic concepts of Light Waves and properties of light waves.*
- *Learn about Interference of Light, Fresnel and Franhoffer Experiment with numericals associated with it.*
- *Analysis of Newton's Rings & Michelson's Interferometer is done with various applications.*
- *Learn the Diffraction and polarization, its various types, the problems involved with it.*
- *Advanced level problems for BARC and JAM was taken for better understanding.*

B.Sc. Semester V:- Paper I

USDSEPHT09: ELEMENTS OF MODERN PHYSICS

After completion of this course students will be able to :

- *Understand the basic concepts of Quantum mechanics with Nuclear physics.*
- *Learn about the Quantum theory, Heisenberg Uncertainty principle and numericals associated with it.*
- *Learn about Shrodinger Wave equation, its application (Particle in box, tunneling effect, step potential).*
- *Learn about Nucleus and its properties, Radioactivity (Alpha particle emission, Beta, Gamma ray emission) along with numericals based on theory.*
- *Understands the Fusion and Fission Reaction of Nuclear physics with diagrams involved with it.*

B.Sc. Semester V:- Paper II

USDSEPHT10: SOLID STATE PHYSICS

After completion of this course students will be able to :

- *Understands the Crystal structure, Diffraction of Crystal, the terms involved with Crystals.*
- *Learn about Magnetic properties of dia- , para- ,ferro-, ferri-, antiferro-magnetic materials involving the expression associated with it.*
- *Learn about the Dielectric properties of materials, various theories.*
- *Learn about the various theories associated with conductor, insulator, semiconductor and superconductor.*
- *Advanced material analysis through reference books.*

B.Sc. Semester VI:- Paper I

USDSEPHT13: NUCLEAR & PARTICLE PHYSICS

After completion of this course students will be able to :

- *Understands the properties of nuclei, structure, mass etc.*
- *Learn about various nuclear models, Concept nuclear force and its types, problems associated with it.*
- *Learn about Nuclear reaction and its types, the effect of nuclear reaction on matter.*
- *Learn about the construction and working of various types of nuclear detectors and particle accelerators.*

B.Sc. Semester VI:- Paper XII

USDSEPHT14: DIGITAL AND ANALOG CIRCUITS AND INSTRUMENTATION

After completion of this course students will be able to :

- *Learn about Digital and Analog circuits with varied applications.*
- *Understands the 1's ,2's operations and logic circuits.*
- *Learn about mechanism of semiconductors, its devices and it working.*
- *Learn about Bipolar junction transistor (nnp and pnp), Voltage amplifiers.*
- *Learn about Operational amplifier, its application, its behavior with varies circuits.*
- *Advanced application.*

**SWA. LAXMIBAI ARTS, SCIENCE AND COMMERCE WOMEN'S COLLEGE,
ALLAPALLI
DEPARTMENT OF MATHEMATICS**

Program specific outcome – UG

- Build logic to deal with problems in mathematics.
- Make students understand the basic structure of mathematics i.e. sets, relation, functions and relation among them.
- Develop the ability to understand concepts in mathematics on their own.

COURSE OUTCOMES :-

B.Sc. Semester I:- Paper I

DIFFERENTIAL AND INTEGRAL CALCULUS

After completion of this course students will be able to :

- *Revise concepts of limit, continuity and differentiability.*
- *Learn Mean Value Theorems and their applications.*
- *Deal with Taylor's series, Maclaurin's series of $\sin(x)$, $\cos(x)$, $\exp(x)$, $\log(1+x)$ etc.*
- *Learn the concepts of Beta and Gamma functions and their properties.*
- *Learn the advanced technique to solve double integral.*

B.Sc. Semester I:- Paper II

DIFFERENTIAL CALCULUS AND TRIGONOMETRY

After completion of this course students will be able to :

- *Find limit, continuity of two variable functions.*
- *Understand the concept of partial differentiation and various method to find them.*
- *Learn about homogeneous functions, Taylor's series of two variable functions.*
- *Find minima and maxima using Lagrange's multiplier method.*
- *Learn tracing of curves, find tangent and normal of curve.*
- *Deal with complex functions, finding roots of complex numbers.*
- *Learn circular and hyperbolic functions.*
- *Learn De'moivre's theorem and it's applications.*

B.Sc. Semester II:- Paper III

ORDINARY DIFFERENTIAL EQUATIONS AND DIFFERENCE EQUATIONS.

After completion of this course students will be able to :

- *Deal with first order differential equation.*
- *Find integrating factor.*
- *Deal with linear equations, Bernoulli's equation and first order higher degree equations solvable for x, y, p .*
- *Find orthogonal trajectory.*
- *Solve simultaneous differential equations.*
- *Solve linear equation with constant coefficients by finding complementary function and particular integral.*
- *Deal with Cauchy- Euler's equation.*
- *Find Wronskian and it's properties.*
- *Solve differential equation using method of variation of parameter.*

- Form difference equation.
- Solve linear difference equation.
- Deal with Homogeneous linear equation with constant coefficient and non-homogeneous linear equations.

B.Sc. Semester II:- Paper IV

PARTIAL DIFFERENTIAL EQUATION

After completion of this course students will be able to :

- Understand linear partial differential equation of first order and formation of partial differential equation by eliminating the arbitrary constants and arbitrary functions.
- Solve total differential equation, Lagrange's linear partial differential equation.
- Solve various types of partial differential equations, such as
 $f(p, q) = 0$
 $z = px + qy + f(p, q)$
 $f(z, p, q) = 0$
 $f(x, p) = g(y, q)$
- Solve partial differential equation using Charpit's method.
- Solve homogeneous partial differential equation with constant coefficient by finding complementary function and particular integral.
- Find solution of non-homogeneous linear partial differential equation.
- Classify second order partial differential equation.

B.Sc. Semester III:- Paper V

REAL ANALYSIS

After completion of this course students will be able to :

- Understand the concepts of real sequence, their convergence and divergence and Cauchy convergence criterion for sequence.
- Understand the concepts of infinite real series their convergence and divergence.
- Find convergence of series by using various tests such as comparison test, P- series test, ratio test, Leibnitz's test.
- Understand the basic of metric, neighborhood, closed set, open sets.
- Learn about metric spaces, Cauchy sequence and complete metric space.
- Understand concepts of Reimann integral and properties of integrable functions.

B.Sc. Semester III:- Paper VI

SET THEORY AND LAPLACE TRANSFORM

After completion of this course students will be able to :

- Gain basic knowledge of sets, subsets, classes of sets and countability of sets.
- Learn basic concepts of relation and types of relations.
- Learn basic concepts of Fuzzy sets, examples of Fuzzy sets and operations on Fuzzy sets.
- Understand the alpha cuts and convex Fuzzy sets.
- Gain knowledge about Laplace transform and it's properties.
- Learn inverse Laplace transform and it's applications on differential equations and partial differential equations.

B.Sc. Semester IV:- Paper VII

ALGEBRA

After completion of this course students will be able to :

- *Understand the basic concept of Groups, their various types, its properties.*
- *Learn basic of Normal Subgroups, Cosets, their properties.*
- *Find homomorphism and isomorphism of Groups, Kernel of homomorphism.*
- *Learn fundamental theorems of isomorphism.*
- *Gain basic knowledge of Ring theory, Field, Subring and their properties.*
- *Learn about Integral Domain and characterization of Ring.*

B.Sc. Semester IV:- Paper VIII

ELEMENTARY NUMBER THEORY

After completion of this course students will be able to :

- *Find Greatest Common Divisor of more than two integers by using Euclidean algorithm and Least Common Multiple.*
- *Solve linear Diophantine equation.*
- *Gain knowledge about fundamental theorems of arithmetic and unique factorization theorem.*
- *Learn about congruence and properties of congruence.*
- *Learn about Chinese remainder theorem and Goldbach conjuncture.*
- *Gain knowledge about arithmetic function, Euler's theorem, Mobius μ function, the τ and σ functions.*

B.Sc. Semester V:- Paper IX

LINEAR ALGEBRA

After completion of this course students will be able to :

- *Understand the basic concepts of Vector spaces, subspaces and their properties.*
- *Learn about linearly dependence and independence and their basic properties.*
- *Learn about basis and dimension of Vector spaces.*
- *Learn about linear transformation, algebra of linear transformation and rank nullity theorem.*
- *Gain knowledge about Dual space, Bi-dual space, adjoint of linear transformation and Eigenvalue and Eigenvectors of linear transformation.*
- *Learn basic concepts of Inner product space, Cauchy Schwartz inequality.*
- *Deal with orthogonal vectors, orthogonal sets and Gram Schmidt orthogonalization process.*

B.Sc. Semester V:- Paper X

MATRICES AND THEORY OF EQUATIONS

After completion of this course students will be able to :

- *Gain basic knowledge of matrices, types of matrices.*
- *Operate elementary operations on matrices.*
- *Reduce matrices to normal form.*
- *Find inverse of matrices, row rank, column rank and rank of matrices.*

- Solve homogeneous and non-homogeneous system of linear equations by matrix inversion method, Cramer's rule, Gauss Jordan elimination method.
- Find Eigenvalues and Eigenvectors of matrices.
- Gain basic knowledge about polynomial equations in one variable.
- Locate roots of polynomial by using Descartes's rule sign.
- Understand relation between roots and coefficients of polynomial.
- Find transformation of equations if there is change in sign of roots, if root is multiplied by given number.
- Learn Cardan's method, Ferrari's method and Descartes's method.

B.Sc. Semester VI:- Paper XI

NUMERICAL METHODS

After completion of this course students will be able to :

- Solve nonlinear equations $f(x) = 0$ by using various methods such as
 - 1) Bisection method
 - 2) Regula falsi method
 - 3) Secant method
 - 4) Newton- Raphson method
- Solve linear algebraic equation $Ax = b$ by using various methods such as
 - 1) Gauss elimination method
 - 2) Partial pivoting
 - 3) Gauss- Jordan elimination
 - 4) LU decomposition method
 - 5) Gauss- Jacobi method of iteration
 - 6) Gauss- Seidel method of iteration.
- Gain knowledge about Finite difference operator, Central difference operator.
- Learn about Newton- Gregory forward and backward difference interpolation formula, Lagrange's interpolation formula, Newton's divided difference interpolation formula for unequal interval.
- Learn about various method for numerical differentiation such as
 - 1) Newton's special and general formula
 - 2) Newton's divided difference formula
- Find minima and maxima of a tabulated function.
- Learn about various methods to find integration numerically such as
 - 1) Trapezoidal rule
 - 2) Simpson's one-third rule
 - 3) Simpson's three-eighth rule
 - 4) Boole's rule
- Find degree of precision and truncation error of above quadrature rule.

B.Sc. Semester VI:- Paper XII

COMPLEX ANALYSIS AND VECTOR CALCULUS

After completion of this course students will be able to :

- Learn about analytic function, Cauchy- Riemann equation and harmonic function.
- Find Mobius transformation and cross ratio of complex numbers.
- Find complex integration.
- Use Cauchy's integral theorem and Cauchy integral formula.

- *Find singularities and residue of complex functions.*
- *Find vector differentiation and vector integration.*
- *Find Gradient, Divergent and curl of vector functions.*
- *Use of Green, Gauss and stokes theorems.*

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DEPARTMENT OF CHEMISTRY

Programme Specific Outcome- UG

- Understand the fundamentals principle, instrumentation, application of various *spectroscopic techniques like NMR, IR, and U.V- Visible spectroscopy.*
- *Know Organic Synthesis and reaction mechanisms via several organic chemical reactions.*
- *Study green route for chemical reaction for sustainable Development.*
- *Achieve pure and applied knowledge of physical chemistry through principle, observation, hypothesis derive conclusion and evaluate their significance with broad scientific context*
- *Understand the synthesis and significance of polymer and fabrics in everyday life.*
- *Know appropriate techniques for the qualitative and quantitative analysis of Chemicals in laboratories and in industries.*
- *Aware different branches and importance of chemistry like analytical, organic, inorganic, physical, environmental, polymer and biochemistry, medicinal chemistry for research and as better carrier opportunity.*
- *Know different basic standards of soil parameter having advantages and disadvantages Chemical fertilizer in actual practices.*
- *Attentive about sources of water pollution and industrial waste management.*
- *Demonstrate good laboratory practices and safety to develop research-oriented skills.*
- *Promotes towards use modern techniques, decent equipment's and Chemistry software's*

Course Outcomes

**BSc semester-I Paper- I
Inorganic Chemistry**

After completion of this course students will be able to :

- *To know fundamental and shapes s, p and d atomic orbital and electronic configuration of elements.*
- *To learn Atomic Structure by theory like Bohr's, de-Broglie, Heisenberg's and Schrodinger wave equation.*
- *To study periodic table through Periodic trends and Properties θ Understand the formation of Covalent Bond by Valance bond theory.*
- *Explore the concept of Molecular Orbital theory using bonding and antibonding molecular orbitals.*
- *To make them know how elements are classified into S and P blocks, and Comparison of periodic property of elements.*
- *Know the effect of hydrogen bonding on viscosity, solubility, Melting point and boiling point.*
- *Understand the concept of Volumetric Analysis by various titrations.*

**BSc semester-I Paper- II
Organic Chemistry**

After completion of this course students will be able to :

- *To know Fundamentals of Organic Chemistry in terms of Electromeric Effect, Resonance and Hyper conjugation.*
- *To study types hybridization, shape and reactivity of organic molecules.*
- *To have a basic understanding of classification and nomenclature of organic compounds,*

- *Understand basics of organic reaction mechanism, aromaticity and stereochemistry of molecule. Learn the types of hydrocarbons its chemical properties and its uses.*
- *To explore synthesis and chemical properties of aromatic hydrocarbons via various organic name reaction.*

BSc semester-II Paper- I **Organic Chemistry**

After completion of this course students will be able to :

- *To study in detail about mechanism of Nucleophilic Substitution (SN1 , SN2 and SNi) reactions.*
- *To understand the methods of preparation of aryl halide and there reactivity.*
- *Learn chemical properties and different approaches to obtained Alcohols, Phenols and Ethers and there uses.*
- *To know Nomenclature, Structure and reactivity of the carbonyl group through organic name reaction and mechanism.*
- *To explore the synthesis structure and bonding, physical properties: acidity of carboxylic acid and there derivatives.*
- *To gain fundamental knowledge to distinguish between different functional group.*

BSc semester-II Paper- II **Physical Chemistry**

After completion of this course students will be able to :

- *To know the Mathematical Concepts: Logarithmic relations, linear graphs, calculation of slopes.*
- *To understand Strong, moderate and weak electrolytes, degree of ionization.*
- *Learn the concept of Statements of first law of thermodynamics and thermochemistry.*
- *To acquired knowledge of postulates of kinetic theory of gases and distinguish between ideal and real gases.*

BSc semester-III Paper- I **Inorganic Chemistry**

After completion of this course students will be able to :

- *To study in depth about the structure and bonding in diborane and borazine.*
- *To learn the chemistry of first second and third transition series element & Understand the chemistry of lanthanides and actinides*
- *To know the basic properties and understanding of iodine and interhalogen compounds*
- *Learn about general characteristic of Ionic and metallic solid.*
- *To know the general characteristic of Lewis, Bronsted Lowery, and Lux –Flood concept of acid and bases.*

BSc semester-III Paper- II **Physical Chemistry**

After completion of this course students will be able to :

- *To understood the phase rule, degree of freedom, derivation of clapeyron equation and its application.*
- *To make them able to describe the liquid –liquid mixture, partial miscible liquids and immiscible liquids.*

- *To learn the second law of thermodynamics.*
- *Know the concept of partial molar quantities, chemical potential.*
- *Learn about concept of collision theory of bimolecular reaction.*
- *To know depth of solution and colligative properties.*
- *Understand the concept of reaction rate, factor affecting the rate of reaction- concentration, temperature, etc.*

BSc semester-IV Paper- I **Inorganic Chemistry**

After completion of this course students will be able to :

- *To study Effective Atomic Number Theory and Werner Complexes*
- *Understand the magnetic properties and the colour of coordination compounds.*
- *To know the stability of metal complexes by the using formation constants and calculate thermodynamic parameters from them.*
- *Learn to explain Parsons SHAB concept and familiar with its application*
- *To understand the rules for splitting of d- orbital in octahedral, tetrahedral and square planar complexes.*
- *To study in depth about principle, instrumentation of colorimetry and Spectrophotometer.*

BSc semester-IV Paper- II **Organic Chemistry**

After completion of this course students will be able to :

- *To learn the preparation and properties of nitro and amino compounds.*
- *Make them understood the concept diazonium salt and their stability.*
- *To introduce about Organometallic and heterocyclic compounds*
- *To know quantitative analysis of different element.*
- *To introduce the concept of preparation and classification of amino acid.*
- *To know details about classification and chemical properties of carbohydrate.*
- *To learn the preparation and properties of synthetic dyes.*
- *Make them aware with some fundamental classes of synthetic drugs*

BSc semester-V Paper- I **Organic Chemistry**

After completion of this course students will be able to :

- *To know about spectroscopic technique Nuclear Magnetic resonance (NMR).*
- *To Recognize Problems elucidation of simple organic compounds using NMR data.*
- *Learn Claisen condensation reaction mechanisms through via Enolates of Active methylene compounds.*
- *To study the chemistry comprising synthesis of ketone, diketone, 4-methyl uracil from acetoacetic ester.*
- *Know the concept keto-enol tautomerism.*
- *Understand introduction classification and reaction of polymers and fabrics.*
- *To explore about Biodegradable and conducting polymers.*
- *Understand twelve principles of green chemistry Green Chemistry as technology for sustainable development and Designing Products.*

BSc semester-V Paper- II

Physical Chemistry

After completion of this course students will be able to :

- *To study in depth about electrochemical reaction, Electrical transport and conductivity of electrodes.*
- *To understand the application of various electro chemical theory like Kohlrausch law, Arrhenius theory, Debye-Huckel theory and Onsagar equation.*
- *To explore difference between Faraday's I and Faraday's II laws of electrolysis.*
- *Aware about thermodynamic quantities of cell reactions such as ΔG , ΔH & ΔS & equilibrium constant.*
- *To learn entire concept of reversible electrodes like gas electrode, metal-metal ion electrode, amalgam electrode, metal insoluble salt-anion, redox electrodes.*
- *To study the derivation Nernst equation and Applications of emf measurements in pH-determination and potentiometric titration.*
- *To know the Failure of classical mechanics and need of quantum mechanics*
- *To understand the concept of Normalized and orthogonal wave functions.*
- *To differentiate between classical and quantum mechanics.*
- *To Understand the Postulates of quantum mechanics, by application in Derivation of Schrodinger wave equation.*

BSc semester-VI Paper-

Inorganic Chemistry

After completion of this course students will be able to :

- *To carry out Qualitative and quantitative analysis of Experimental data by sampling, errors, accuracy and Precision.*
- *To know modern instrument Flame Photometry and study Basic principles, instrumentation and application of it.*
- *To develop basic skills required for chromatography, ion exchange, solvent extraction, crystallisation, distillation, TLC and column.*
- *To Understand the Basic Principal of Soil Chemistry through Collection of sample, Chemical Analysis, Soil pH and Soil Salinity.*
- *To explore the basic knowledge of various pesticides, insecticides, fungicides and herbicides.*
- *To make them know about Preparation, properties and application o organometallic Compound like Al, Hg and Sn.*
- *To aware about gold and silver Nanomaterial Technology and Carbon Nanotube.*

BSc semester-VI Paper- II

Physical Chemistry

After completion of this course students will be able to :

- *To know about photochemical reaction through various laws and fluorescence, phosphorescence, chemiluminescence.*
- *Learn how to determine dipole moment, Bond moments Group moments for benzene derivatives*
- *To Know derivation of expression for rotational and vibrational spectra and there application for molecule.*
- *Learn to distinguish phenomenon of adsorption and absorption and colloidal chemistry through ultrafiltration, electrophoresis and electro Osmosis.*

- *To understand through classification of particle,*
- *To study Nuclear Chemistry and its application in radio tracers, Discovery of radioactivity, typical radioisotopes.*

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DEPARTMENT OF BOTANY

Programme Specific Outcome- UG

- *Know about the importance of plants, their diversity and its conservation.*
- *Know the cryptogams and phanerogams.*
- *Know the Characteristic features, Systematics, Morphology, Structure and lifecycle of Viruses, Bacteria, Cyanobacteria, Mycoplasma, Algae, Fungi, Lichen, Bryophytes, Pteridophytes.*
- *Know the Diversity, Systematics and biology of seed plants (Angiosperms and Gymnosperms).*
- *Know the structures, types and function of gene, genome, cell, tissue, organ system containing development, reproduction, ecological and physiological adaptations.*
- *Understand the basic concepts of plant Physiology, Biochemistry, Anatomy, Morphology, Taxonomy, Ecology, Cytology, Genetics, Plant pathology, Mycology, Ethenobotany.*

Course Outcomes

BSc semester-I Paper- I

Micro-organisms, Algae, Fungi and Plant Pathology

After completion of this course students will be able to :

- *Understand the general characteristic of life.*
- *Understand the depth about Viruses Bacteria & Mycoplasma.*
- *Understand the depth of Cyanobacteria (Nostoc).*
- *Learn about general characteristics, classification, economic importance of Algae & Fungi.*
- *Understand the life history of Algae (Voucheria, Chara, Bactrachopermium, Ectocarpus, Oedogonium) and Fungi (Mucor, Albugo, Cercospora, Puccinia, Penicillium).*
- *Understand the classification of plant diseases, pathogen, symptoms, causes and control measures of Tobacco mosaic disease, Red rot of Sugarcane, Brown spot of Rice, Bacterial Blight of Cotton & loose smut of Wheat.*

BSc semester-I Paper- II

Plant Diversity (Bryophyta, Pteridophyta, Gymnosperms and Palaeobotany)

After completion of this course students will be able to :

- *Understand the morphological diversity and Economic importance of Bryophyta.*
- *Know about Classification system, the interesting characters and Economic importance of Pteridophyta and Gymnosperms.*
- *The students will be able to understand the structure & reproduction of certain selected Bryophyta, Pteridophyta, Gymnosperms.*
- *The students will be able to understand the process of Fossilization.*
- *Learn some fossil Rhynia, Glossopteris, Cycadeoidea.*

BSc semester-II Paper- I

Angiosperm (Morphology and Anatomy)

After completion of this course students will be able to :

- *Understand the morphological characteristic of Angiosperm.*
- *Know about modification of stem, leaves, root in Angiosperm.*
- *Know about phyllotaxy, branching, pattern and venation in Angiosperm.*
- *Understand about morphology of flower, its types, floral whorls (calyx, corolla, androecium & gynoecium) useful for practical purpose also.*
- *Understand about Inflorescence, its types, placentation, Aestivation, types of fruits, floral formula and floral diagram.*
- *Learn about classification of permanent tissue (parenchyma, collenchyma, Sclerenchyma, xylem, phloem).*
- *Learn about Newman theory and Tunica carpus theory.*
- *Learn about vascular cambium, Periderm & Vascular Bundles.*
- *Know about Anatomy of root, stem and leaf of Maize and Sunflower.*
- *To know more about anatomy of stem and Anamolous secondary growth in Moringa, Dracena, Bignonea, Boerhavia and Beet root.*

BSc semester-II Paper- II

Taxonomy and Diversity of Angiosperms

After completion of this course students will be able to :

- *The students will be able to understand the classification system of Angiosperm.*
- *The students will be able to understand the plant diversity available in the region and its economic value.*
- *Know about basic principles of plant taxonomy.*
- *Know the Botanical names and families of most of the plants available in the region.*
- *The students will be able to understand the herbarium techniques.*

BSc semester-III Paper- I

Reproductive Biology of Angiosperms, Plant Growth and Development

After completion of this course students will be able to :

- *The students will be able to understand the mechanism of pollination and basic structure of the embryo.*
- *The students will be able to understand the plant growth and development.*
- *Know about plant movement.*
- *The students will be able to understand concept of photoperiodism.*

BSc semester-III Paper- II

Plant Biochemistry & Physiology

After completion of this course students will be able to :

- *Students understand the mechanism of Osmosis, Plasmolysis, Diffusion, Ascent of Sap, Transpiration & Mineral nutrition.*
- *Understand the mechanism of Biological N₂ fixation.*
- *Know about the properties of enzymes, classification and theories (Lock and Key theory & Induced fit theory).*
- *Know about mechanism of photosynthesis and respiration.*
- *Know about classification, properties, role of carbohydrates.*
- *Know about Aldoses and Ketoses.*
- *Students understand the properties and role of lipids, uses of fatty acids, oils, waxes, and sterols.*
- *Know about structure of Amino acids and Proteins.*

BSc semester-IV Paper- I

Cell Biology, Genetics and Biotechnology

After completion of this course students will be able to :

- *Students learn about structure of typical plant cell and cell organelles (Mitochondria, Chloroplast, Endoplasmic reticulum, Vacuoles, Ribosome's, Lysosomes and Golgi bodies).*
- *Students understand the various steps of cell division (Mitosis and Meiosis).*
- *Understand tissue culture technique. ∞ Learn more about Mendelism. (Law of dominance, Law of segregation and law of Independent Assortment).*
- *Know about complementary and supplementary factors.*
- *Learn about plastid and Mitochondrial DNA.*
- *Learn about mechanism of Linkages and crossing over.*
- *Know more about polyploidy mutation, chromosomal abberation.*
- *Learn mechanism of protein synthesis.*
- *Learn more about Agrobacterium plasmid, T4 bacteriophage, jumping genes, lac operar model.*

BSc semester-IV Paper- II

Plant Ecology

After completion of this course students will be able to :

- *Understand about the climatic factors, Edaphic factors, Biotic Factors,*
- *Understand the concept of Food chain and food web.*
- *Understand the Ecosystem, and Environmental Pollution.*
- *Understand plant community dynamics, ecological adaptation in plant and phytogeographical regions of India and local region.*

BSc semester-V Paper- I

Economic Botany I

After completion of this course students will be able to :

- *Students understand the origin, Botanical description, cultivation and uses of cereal crops (Rice, Wheat, Maize, Jawar, Gram, Pigeon Pea, Lentil, Green gram and Black gram).*
- *Understand the origin, Botanical description, cultivation method and uses of Ground nut, Mustard, Sesame, Soyabean, Coconut, Linseed, Tembhurni, Charoli and Jambhul.*
- *Know about origin, Botanical description, cultivation method and uses of vegetable plants and fruit plants. (Tomato, Potato, Brinjal, Onion, Chili, Sugarcane, Mango, Papaya).*
- *Know more about origin, botanical description, Cultivation & uses of (Cotton, Jute, Sunhemp, Sisal hemp, Bamboo, Cowpea, Ferugreek and Lucerne).*

BSc semester-V Paper- II

Economic Botany

After completion of this course students will be able to :

- *Students gain knowledge about various plant of economic use and its importance.*
- *Understand the role of plant in human welfare.*
- *Students gain knowledge about origin, cultivation method, uses and botanical description of economical important plant (Spices, Beverages, Gum, Dye, Rubber, Timber, Bamboo, Medicines, Essential Oil, Bio-fuels) etc.*

BSc semester-VI Paper- I

Mycology and Plant Pathology

After completion of this course students will be able to :

- *Understand brief idea about objectives of mycology and mycological institutes in India.*
- *Understand the process of parasexuality, Homothallism, Heterothallism.*
- *Know more about classification of plant diseases, culture media preparation Koch's postulates, importance of pathogenicity in 20th century.*
- *Know more about effect of temperature, soil environment, relative humidity, rainfall, wind, light on plant diseases.*
- *Learn more about defence mechanism and hyper sensitive reaction in plants.*

- *Students know the Biological and chemical control of plant diseases. ∞ Students know about plant quarantine.*

BSc semester-VI Paper- II **Mycology and Plant Pathology**

After completion of this course students will be able to :

- *Understand role of fungi in industrial Mycology, scope & their utility.*
- *Understands the basic information on mushroom.*
- *Understand the scope and importance of plant pathology.*
- *Understand the life cycle & Symptoms of casual agent.*
- *Know the prevention & control measure of plant disease & its effects on economy of crop.*

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DEPARTMENT OF ZOOLOGY

Programme Specific Outcome- UG

- *Gain knowledge of various branches of Zoology for graduate course and higher studies.*
- *Develop positive attitude towards the subject for sustainable development.*
- *Understand the connection of life and rich diversity of organism and their ecological and evolutionary significance.*
- *Develop basic skill and study of nature, techniques experimental skill and scientific investigation.*
- *Identify and list out common animals explain physiological changes in animal bodies.*
- *Explain about genetic abnormalities of animal benefits to human also diseases caused by animals to humans. Use of Bioinformatics, Biostatistics as a tool for all activities related to Zoology.*
- *Perform the activity in research of sericulture, fish biology, tools and techniques of zoology.*

Course Outcomes

BSc semester-I Paper- I

Life and Diversity of animals (Protozoa to Annelida)

After completion of this course students will be able to :

- *Familiar with invertebrate world that surrounds us.*
- *Able to identify invertebrates and classify them up to the class level.*
- *Understand the basis of life processes in the non-chordates.*
- *Describe Lower invertebrates digestive ,nervous ,reproductive system.*
- *Classify and characterize phylum- protozoa, reproduction in Paramecium.*
- *Classify and characterize phylum- porifera, morphological characters of Sycon.*
- *Classify and characterize phylum- coelenterata, morphological characters of Obelia.*
- *Classify and characterize phylum- platyhelminths Explain reproduction in Taenia solium.*
- *Describe phylum- aschelminths, reproduction in Ascaris.*
- *Classify and characterize phylum- Annelida, digestive, reproduction in Hirudineria.*

B.Sc. Semester-I Paper-II

Cell Biology

After completion of this course students will be able to :

- *To understand the fundamental principles and unifying facts of cell biology.*
- *To study the cell theory, prokaryotic and eukaryotic cells, animal and plants cell.*
- *To know the osmosis, diffusion, active and passive transport with help of examples.*
- *To study different models of plasmamembrane- Sandwich and fluid mosaic model etc.*
- *To study the cell organelles (Golgi complex, Ribosomes, lysosomes, Endoplasmicreticulum, Mitochondria etc.*
- *Gain the knowledge of structure and function of nucleus, nucleolus and chromosomes.*

BSc semester-II Paper- I

Life and Diversity of animals (Arthropoda to Hemichordata)

After completion of this course students will be able to :

- *Able to identify invertebrates and classify them up to the class level.*
- *Understand the basis of life processes in the non-chordates.*
- *Gain the knowledge about Lower invertebrates with digestive, nervous, reproductive system.*
- *Classify and characterize phylum-Arthropoda, reproduction in Periplaneta.*
- *Classify and characterize phylum- Mollusca, morphological characters of Pila.*
- *Classify and characterize phylum- Echinodermata, morphological characters of Asterias.*
- *Classify and characterize phylum-Hemichordata, reproduction in Balanoglossus.*

B.Sc. Semester-II Paper-II

Genetics and Evolution

After completion of this course students will be able to :

- *Understand the Mendelian genetics, laws of genetics, interaction of genes.*
- *To study linkage, crossingover, syndrome and mutation.*
- *To gain the knowledge of major history of life.*
- *To study the direct evidences of evolution (type of fossil, evolution of horse)*
- *To study the evolutionary changes, species concept, modes of speciation.*
- *To know more about macroevolution and extinction.*

BSc semester-III Paper- I

Animals Diversity of chordata and comparative anatomy

After completion of this course students will be able to :

- *Able to identify vertebrates and classify them up to the class level.*
- *Understand the basis of life processes in the chordates.*
- *To gain the knowledge about Higher vertebrates with digestive,nervous,reproductive system and comparative anatomy.*
- *Explain Classifications and characterize up to order -Urochordata, general characters Ascidiata pole larva retrogressive metamorphosis.*
- *Classify and characterize up to order - Cephalochordata, morphological characters digestive system of Amphioxus.*
- *Classify and characterize up to order - Cyclostomata, morphological characters of Pteromyzon and Myxine.*
- *Classify and characterize up to order -pisces, general characters, osmoregulation.*
- *Classify and characterize up to order –amphibia,explain general characters, parental care.*
- *Classify and characterize up to order –Reptilia, general characters, snake venom,difference between poisonous and non poisonous snakes.*
- *Classify and characterize up to order –aves, general characters, flight adaptation migration. Classify and characterize up to order –mammals, general characters, prototheria, metatheria, eutheria.*

B.Sc. Semester-III Paper-II Physiology and Biochemistry*Part-I

After completion of this course students will be able to :

- *To gain the knowledge about the fundamental principles and unifying facts of human physiology.*
- *To know the breathing mechanism, Hemoglobin (Hb %) as a respiratory pigments, function of respiratory organs and others respiratory organs.*
- *To study source and type of vitamins, deficiency and diseases.*
- *Explain the digestive mechanism, digestion of carbohydrates, protein and fats.*
- *To study all digestive glands and its function (Structure and function of Salivary, Gastric, Intestinal, liver, Pancreas).*
- *To study of enzyme, nomenclature of enzyme, Induce-fit model and key-lock models, properties of enzyme and factors affecting enzyme activity.*
- *To study the mechanism of breathing, respiratory pigments, transports of O₂ and CO₂.*
- *To know the respiratory disorders and effects of smoking*

BSc semester-IV Paper- I Developmental Biology

After completion of this course students will be able to :

- *Gain the knowledge of types of eggs.*
- *To know fertilization mechanism and significance.*
- *To study types of cleavage.*
- *To study types of blastulation.*
- *Describe morphogenetic movements in the early development of frog.*
- *To know development of chick.*
- *To study extra embryonic membrane.*
- *To know gametogenesis.*
- *To study implantation types.*
- *Gain the knowledge of placentation types and functions.*
- *To know gene activation and apoptosis.*
- *To study stem cells.*
- *To know IVF process.*
- *To gain the knowledge about semen bank and contraceptive methods.*

B.Sc. Semester-IV Paper-II Physiology and Biochemistry-Part-II

After completion of this course students will be able to :

- *To study the structure and function of nephron, mechanism of urine formation.*
- *To know the elementary ideas of dialysis and counter current mechanism.*
- *To study the structure and functions of endocrine glands (Pituitary, Thyroid, Adrenal)*
- *To know the male and female sex hormones.*
- *To study their productive cycle (menstrual & estrous cycle)*
- *To study the structure and function of neuron, E.M. structure of neuron*
- *To know the sliding filaments theory of muscle*
- *To study the properties of muscles (Twitch, tetanus, tonus, summation, muscle fatigue)*
- *To study the circulatory system in details.*
- *To know the blood groups and its genetics.*
- *To know the Blood pressure, 13 clotting factors, cardiac cycle, ECG and function of*

blood and its composition etc.

BSc semester-V Paper- I **Applied Zoology**

After completion of this course students will be able to :

- *To know the types of fisheries in brief.*
- *To know pre and post stocking management.*
- *To study mono and poly culture.*
- *Explain various fish diseases.*
- *Understand the life cycle of Ancylostoma and Wuchereria.*
- *Gain the knowledge of biology control and damage insect pest.*
- *To know about mosquito disease and Pediculus humanus.*
- *To know about principles of poultry breeding and diseases.*
- *To study introduction of dairy farm and management.*
- *To know preservation semen and AI in cattle's and diseases.*
- *To study of management of modern dairy farm.*

B.Sc. Semester-V Paper-II **Aquatic Biology**

After completion of this course students will be able to :

- *To know the fundamental principles and unifying facts of aquatic biology.*
- *To study the ecosystems (Freshwater, marine water)*
- *To know the differences between lentic and lotic ecosystem*
- *To study different physicochemical and biological parameters of water & soil*
- *To understand the fresh water and saline water fishery in India.*

BSc semester-VI Paper- I **Microtechnique Bioinformatics and Biostatistics.**

After completion of this course students will be able to :

- *To know about the visualization of cell by light microscope.*
- *To study concept of resolving power of different microscopes.*
- *To know the different fixation and staining technique for EM, freeze-etch method.*
- *Describe image processing method in microscopy.*
- *To study structure and function of microtome.*
- *To study fixation dehydration clearing embedding.*
- *To know about section cutting and problem encounter in section cutting.*
- *To know about Bioinformatics tools.*
- *To study biological database.*
- *To study structure of nucleotide database.*
- *To know about Application of bioinformatics.*
- *To study measures of central tendency dispersal probability distribution regression and correlation t- test analysis of variance.*

B.Sc. Semester-VI Paper-II

Reproductive Biology

After completion of this course students will be able to :

- *Gain the knowledge about fundamental principles and unifying facts of reproductive biology.*
- *To know the structure and functions of main reproductive organs of human being.*
- *To study the current state of knowledge about the functional organization of the human body.*
- *To understand the physiology of reproduction*
- *To know the role of male reproductive system and female reproductive system.*
- *To understand the general functions of reproductive organs of male and female.*
- *To study the physiology of coitus, spermatogenesis and oogenesis.*
- *To know the assisted reproductive technology including ZIFT, GIFT, IVF, AI, etc.*
- *To know the various contraceptive methods.*
- *To study the physiology of pregnancy.*
- *To gain the knowledge of pregnancy test by using kit.*
- *To know the causes of infertility in male and female.*
- *To know the histology of reproductive organs of human being and other mammals too.*

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PROGRAMME OUTCOME – ARTS FACULTY

- Student will aware regarding various roles and responsibilities he/she has to play in society
- Student will develop the sense of relevance for humanity studies.
- Student acquires the basics of human induced social systems.
- Student learns to apply the knowledge on the day to day human interactions.
- Student develops a potential to deal with various issues related to social domain with proficiency.

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DEPARTMENT OF ENGLISH

Programme Specific Outcome:

- *Educate students in both the artistry and utility of the English language through the study of literature and other contemporary forms of culture.*
- *Provide students with the critical faculties necessary in an academic environment, on the job, and in an increasingly complex, interdependent world.*
- *Assist students in the development of intellectual flexibility, creativity, and cultural literacy so that they may engage in life-long learning.*
- *Students should be able to understand the process of communicating and interpreting human experiences using historical contexts and disciplinary methodologies, through literary representation.*
- *Students should be able to apply analytical and theoretical approaches to the reading and study of various genres of literary and cultural texts.*
- *Developing intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioral attitude through literary subjects and shaping the students socially responsible citizens.*
- *To enhance employability of the students by developing their linguistic competence and communicative skills.*
- *Upon completion of the course the students should know the plays of master-dramatists, and the capacity to understand and analyse various plays styles.*

B. A. - I (Compulsory English)

Course Outcomes –

After completion of this course students will be able to :

- *Acquaint themselves about the rich and best literary traditions in English and expand their range of experience and in the process, they will learn to be more empathetic toward the plight of others.*
- *Think about the relation between language and literature.*
- *Write clearly, effectively and creatively and adjust writing style appropriately to the content, context and nature of the subject.*
- *Know about various innovative ways of using English language in verbal and non-verbal communication.*
- *Effective communication in English with others.*
- *To expose to the best examples of prose and poetry in English so that they realize the beauty and communicative power of English.*
- *To develop the ability to appreciate ideas and think critically.*
- *To acquaint with the minor forms of literature in English and help them to appreciate the creative use of language in literature.*
- *To develop interest in reading literary pieces.*
- *To become competent users of English in real life situations*
- *To acquire conversational skills in daily life.*
- *Students awareness about crucial issues like human values, human rights, ecological and environmental issues, caste and gender based discrimination will be developed.*
- *The students could improve vocabulary.*
- *To use their creative and critical faculties of mind in real life situations.*
- *To study basic English Grammar and composition for developing communication skills.*

B. A. - II (Compulsory English)

Course Outcomes –

After completion of this course students will be able to :

- *To familiarize with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English.*
- *To express a thorough command of English and its linguistic Structures.*
- *To compose and appreciate various styles of prose and poetry.*
- *To recognize, examine, interpret and explain the important ideas, values and themes that occur in literary and cultural texts.*
- *To be proficient in English language to improve their employability.*
- *To develop the ability to comprehend the written texts.*
- *To sharpen their critical, creative and analytical skills.*
- *To acquire conversational skills in daily life.*
- *To inculcate the moral and human values among themselves through the text.*
- *To express themselves in oral and written communicative situations.*
- *To improve their vocabulary.*
- *On successful completion of the course, the students will be accurate both in oral and written communication as they will be strong in Grammar and its usage.*
- *To enable them to express a thorough command of English and its linguistic Structures.*
- *To enable them the ability to compose and appreciate various styles of prose.*

- *To introduce the students to the fundamental elements of poetry- to inspire the students with poetry readings from various perspectives.*
- *Developing critical thinking and imagination through non-fiction, and familiarizing students with cultural diversity through various representative non-fiction samples.*
- *To train them to attempt practical criticism of plays, passages and poems.*
- *To make students able to recognize, examine, interpret and explain the important ideas, values and themes that occur in literary and cultural texts.*
- *To make students able to write analytically in a variety of different formats, including essays, academic articles, reflective writing and secondary sources and critical reviews.*

B. A. - III (English Literature)

Course Outcomes –

After completion of this course students will be able to :

- *Know the position of literature within humanities and appreciate it.*
- *Literature is valued, perceived, and analysed objectively.*
- *How and why Indian literature emerged as a distinct field of study.*
- *Trace the development of history of English literature from its beginning to the present day.*
- *Interpret the works of great writes of Indian writers in English.*
- *Demonstrate, through discussion and writing, an understanding of significant cultural and societal issues presented in Indian English literature.*
- *Learn the history of literary criticism and various literary theories.*
- *Apply critical and technical theory and vocabulary to describe and analyze, and formulate an argument about literary and other texts.*
- *Think about the non-fixity of meaning of literacy texts.*
- *Develop a skill in applying various literary theories in interpreting a specific text.*
- *To train them to attempt practical criticism of plays, passages and poems.*
- *To offer a summary of the various stages of Indian writing evolution in English.*

B. Sc. - I (Compulsory English)

Course Outcomes –

After completion of this course students will be able to :

- *To acquaint with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English.*
- *To expose students to varied cultural experiences through English language and literature.*
- *To contribute to their overall personality development by improving their communicative skills and soft skills.*
- *To express a thorough command of English and its linguistic Structures.*
- *To compose and appreciate various styles of prose and poetry.*
- *To develop critical thinking and imagination through non-fiction, and familiarizing students with cultural diversity through various representative non-fiction samples.*
- *To expose to the basics of short story and to familiarize them with different types of short stories in English.*
- *To master the skills of reading, writing, listening and speaking.*
- *To practice their moral and social sense in life.*
- *To use English effectively in formal and informal situations of life.*
- *To understand the basic concept of literary genre, poem, prose and stories.*
- *To acquaint with the basic English Grammar and composition for developing communication skills.*
- *To sharpen their critical, creative and analytical skills and enhance their proficiency in English language.*

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DEPARTMENT OF MARATHI

Programme Specific Outcome:

- *Develop competency in Literary Forms (Marathi poetry, autobiography, novel, short story, drama & performing prose)*
- *Develop Reading, Writing & Communication Skills in Marathi.*
- *Get Information about the history of Saint Literature.*
- *Get Information about the history of MODERN Marathi Literature.*
- *Apply the study of Marathi Linguistics & Grammar in their practical life.*
- *Study News Writing for Media. Nurture themselves in soft skills and develop research aptitude.*
- *Find jobs for their livelihood be motivated for their further education.*
- *The development of the basic language skill- listening, speaking, reading and writing communication skills.*
- *Develop Social and moral values and responsibility.*
- *Develop communication skill.*
- *Comprehension of the writers and poets*
- *Develop an interest for the Marathi Language.*
- *Improve Language Skill, Speaking Skill, Listening Skill, Reading Skill and Writing Skill.*
- *Develop Philosophical and Social thoughts by studying prose and poetry*
- *Develop Attitude of Literary Forms. (Marathi Poetry, Drama, Novel, Story & Travelogue).*
- *Develop Reading, Writing & Communication Skills of Students.*
- *Information about Literary Theory.*

B. A. – Sem. – I

(Compulsory Marathi)Course Outcomes

After completion of this course students will be able to :

- *Gain knowledge about different writers like Sane Guruji, Mhainbhatt , Dr. B. R. Ambedkar , P. K. Attre, V. S. Khandekar ,and Vijaya Rajadhaksha. Poets like Sant Namdeo, Sant Tukadoji Maharaj, Anant Fandi ,Bahinabai Chaudhari, Mangesh Padgawkar and Indrajit Bhalerao and real life social workers like Baburao Bagul.*
- *Learn about social, moral and religious values.*
- *Develop logical, critical and analytical thinking aptitude.*
- *Develop reading, writing and communicative skills.*

B. A. – Sem. - II (Compulsory Marathi)

Course Outcomes –

After completion of this course students will be able to :

- *Gain knowledge about different writer like G. G. Agarkar, Gadgebaba, Y.Waghmare, N. Mirjkar, B. Kale and Urmila Pawar & poet Saint Dhyaneshwar, B. S. Mardhekar, Shanta Shelake, Vitthal Wagh, Sudhakar Gaydhani, Kusum Alam.*
- *Understand and analyse the social work and Self work and develop logical, critical and analytical thinking aptitude.*
- *Learn tradition and culture of Indian villages and develop reading, writing and communicative skills.*
- *Develop social responsibility by understanding prose and poetry.*

B. A. – Sem. - III (Compulsory Marathi)

Course Outcomes –

After completion of this course students will be able to :

- *Gain knowledge about different writers like Lokhitwadi, Mahatma phule, Narendra Dabholkar, Madhukar wakode Wakode, B. L. Bhole and Isadas Bhadke & poet like that Saganbhau, Savitrybai Phule, Yeshwant Manohar, Kalpana Dudhal, P. Vitthal and Erfan Sheikh stories while reading text.*
- *Learn to understand and analyze the character value and real life hero of social work.*
- *Learn about social moral and religious values.*
- *Gain knowledge of social structure and problems of society.*
- *Learn moral ethics of humanity.*

B. A. – Sem. - IV (Compulsory Marathi)

Course Outcomes –

After completion of this course students will be able to :

- *Gain knowledge of about different writers like Shahu Maharaj, Jyant Narlikar, Social worker like Dr. Abhay Bang, Shankar Kharat, Sharachhandra Muktibodh and Anil Awachat. Poets like Kusumagraj, Baba Amate, Indira Saint, Chandrakant Patil, Baban Saradkar and Anuradha Patil, while reading their text.*
- *Learn about characters, Biography and social workers.*
- *Develop the skills of writing poems and articles.*
- *Learn moral ethics of humanity*
- *Develop ability to understand shadows of words*

B. A. – Sem. - V (Communicative Marathi)

Course Outcomes –

After completion of this course students will be able to :

- *Learn about role and applications of communicative Marathi language.*
- *Develop writing skills and learn to write precise, reports and translations.*
- *Broaden the knowledge of Marathi language.*
- *Learn to transfer information and also learn about techniques used to face and write reports of interviews.*
- *Learn to comprehend and write notices and also learn the role and importance of internet in learning Marathi language.*
- *Develop Writing skills, vocabulary, and expression through presentations.*
- *Gain knowledge of Editing Process, Magazine Editing, Report Writing and Interview Skill.*
- *Develop soft skill among the students.*

B. A. – Sem. - VI (Communicative Marathi)

Course Outcomes –

After completion of this course students will be able to :

- *Develop knowledge of vocabulary and grammar. Learn expression and translation.*
- *Learn to analyse interpret and write advertisement and report which also develops employable skills.*
- *Learn to write invitations of different forms and also learn about journal front page and last page writing and News in newspaper, Television and Radio.*
- *Develop skills to write and read news at radio & T.V. station.*
- *Develop the practical approaches and opportunities for the employment among the students by using Functional Marathi Language.*

- *Gain knowledge of Creative Writing, Letter Writing, Advertisement Writing, Proof Reading, Paragraph Writing and Travelogue Writing.*

B. A. – Sem. - I

(Marathi Literature)Course Outcomes

After completion of this course students will be able to :

- *Gain knowledge about stories of different writers like Gangadhar Gadgil, Venkatesh Madgulkar, Shankar Patil, Baburao Bagul, G .A. Kulkarni, Kamal Desai*
- *Learn to analyse, interpret and develop employable skills.*
- *Learn to understand and analyse the character value of Heroes of the story.*
- *Develop communicative and practical skills.*
- *Develop literary criticism attitude and Students Learn Literary Criticism and Theory from Sahityvichar.*

B. A. – Sem. - II (Marathi Literature)

Course Outcomes –

After completion of this course students will be able to :

- *Gain knowledge about Novel of S. N. Pendase - “Garambicha babu”.*
- *Learn to understand and analyse the character value and real life hero of social work.*
- *Learn about social, moral and religious values.*
- *Develop communicative and practical skills.*
- *Develop literary criticism attitude and Students Learn Literary Criticism and Theory from Sahityvichar.*

B. A. – Sem. - III (Marathi Literature)

Course Outcomes –

After completion of this course students will be able to :

- *Gain knowledge about criticism of books, its characters, style, plot, language and expression.*
- *Learn to understand and analyse the character value of hero of the drama “Natsamrat”.*
- *Understand the difference between drama and Act- play. Also develop social, moral and critical value from the role of characters played in the text book of Tragedy “Natsamrat” writer by V.V. Shirwadkar.*
- *Gain knowledge about criticism (sahityavichar) and develop critical and analytical thinking.*
- *Develop communicative and practical skills.*

B. A. – Sem. - IV (Marathi Literature)

Course Outcomes –

After completion of this course students will be able to :

- *Learn poetries of Keshaosut, B. S. Mardhekar, Narayan Surve, Vitthal Wagh, Bhujang Meshram, Daya Pawar, Niraja, Hemant Diwate.*
- *Learn and enjoy poems. Those are sort of parodies which enhance philosophy of human.*
- *Develop literary criticism attitude and Students Learn Literary Criticism and Theory from Sahityvichar.*

B. A. – Sem. - V (Marathi Literature)

Course Outcomes –

After completion of this course students will be able to :

- *Learn about characters from the Biography of mahanubhav Sant Govind- Prabhu.*
- *Analyze depth in the Powada and Lawani poem.*
- *Learn to write critical appreciation of the poems.*
- *Gain knowledge about the writer and poets of ancient era.*
- *Study about Marathi Wangmyacha Itihas written by Nasirabadkar. Gain knowledge about Saint Tukaram, Saint Dnyaneshwar, Saint Namdev and SaintEkanath.*
- *Gain knowledge about the poets and poems of critical period (1600-1900)*
- *Gain knowledge about the writer and poets of modern era like kayya shastra.*

B. A. – Sem. - VI (Marathi Literature)

Course Outcomes –

After completion of this course students will be able to :

- *Students Learn travelogue written by P. L. Deshpande.*
- *Gain knowledge of descriptions of London, Paris, Germany, Scotland.*
- *Students aware of tourist Place and their Culture and Society.*
- *Develop Attitude of Marathi Linguistics.*
- *Learn about special writers and their literature like P.L.Deshpandey''s Apuravai*
- *Study about Marathi language phonetics in Bhasha vighayan by Dr S.G.Malshe.*
- *Gain knowledge about different cultures and traditions by travelling through different countries while reading Deshpandey''s Apuravai.*

B.Sc. – Sem. - I (Compulsory Marathi)

Course Outcomes –

After completion of this course students will be able to :

- *Gain knowledge of about different writers, poet and novels, social workers, get introduction of different types of people while reading text. Writer by Gadgebaba, Dr. B. R. Ambedkar, Jyant Narlikar, Kachru Girhe and Uttam Kamble. Poet by Saint Dyaneshawar, Keshawsut, B. S. Mardhekar, Kusumagaj and Ushakiran Atram*
- *Learn to analyse, interpret and write advertisement and reports.*
- *Develop writing and communicative skills.*
- *To acquire conversational skill in daily life.*
- *To understand the basic concept of literary genre, poem, prose and stories.*
- *To sharpen their critical, creative and analytical skills and enhance their proficiency in Marathi Language.*

B.Sc. – Sem. - II (Compulsory Marathi)

After completion of this course students will be able to :

- *Gain knowledge of about different writers V. D. Sawarkar, RastantTukdoji Maharaj , P. L. Deshapende , Vasant Warhadpande and Baba Bhand. Poet by Saint Tukaram , Sane Guruji , Keshavkumar , Shanta Shelake , Dyanesh Wakudkar.*
- *Develop skill of Grammar and Letter writing.*
- *Learn tradition and culture of Indian villages.*
- *Aware the Problems of Society 5. To sharpen their critical, creative and analytical skills and enhance their proficiency in Marathi Language.*

B.Sc.– Sem. - III

(Compulsory Marathi)

After completion of this course students will be able to :

- *Gain knowledge of about different writers, poet and novels, social workers, get introduction of different types of people while reading text. Writer by Jotiba Fule, Sane Guruji, Vaman Chorghade, Gangadhar Pantawne, Bhanu kale, Dadasaheb More Poet by Sant Eknath, Honaji Bala, Bahinabai Chaudhari, Vasant Abaji Dahake, Hira Bansode, Bhujang Mesharm.*
- *Learn to analyze, interpret and write advertisement and reports.*
- *Develop writing and communicative skills.*
- *To acquire conversational skill in daily life.*
- *To understand the basic concept of literary genre, poem, prose and stories.*
- *To sharpen their critical, creative and analytical skills and enhance their proficiency in Marathi Language.*

B.Sc.– Sem. - IV (Compulsory Marathi)

After completion of this course students will be able to :

- *Gain knowledge of about different writers Swami Vivekanand, Pralhad Atre, Yahwantrao Chauhan, Shantaram, Anil Awachat Poet by N.V. Tilak, V.D. Sawarkar, B.S. Mardhekar, Aruna Dhere, Indrajit Bhalerao and Ajim Navaj Rahi.*
- *Develop skill of Grammar and Advertisement Writing.*
- *Learn tradition and culture of Indian villages.*
- *Aware the Problems of Society and Learn ethics of human values.*

**SWA. LAXMIBAI ARTS, SCIENCE AND COMMERCE WOMEN'S COLLEGE,
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DEPARTMENT OF HISTORY

Program Specific Outcomes –

- *Understand background of our religion customs, institutions, and administrations*
- *Understand the present existing social political, religious, and economic condition of the people*
- *Developed practical skills helpful in the study understanding of historical events*
 - *Draw historical maps, charts diagrams etc...*
 - *Prepare historical models tools etc...*
- *Develop interest in the study of history and activates relating to history. They .*
 - *Collect ancient's arts, old coins and other historical materials.*
 - *Visit places of historical interest archeological sites, museums and archives.*
 - *Read historical document, maps, charts etc....*
 - *Write articles on historical topics.*

Course Outcomes –

B.A.-I Semester-I(Indian History (Earliest Times to 1351 AD))

After completion of this course students will be able to :

- *Perceive various sources to study of ancient India.*
- *Understand the glory of India history in the age of harappan civilization*
- *Comprehend the history of vidic period .*
- *Understand the philosophy of Jainism and Buddhism.*

B.A.-I Semester-II (Indian History (1526 To 1761 AD))

After completion of this course students will be able to :

- *Understand the political Situation of India on the eve of Babars Invasions.*
- *Grasp territorial's expansions of Mughal emper*
- *Know about the administrative need and the importance of grand coronations of chatrapati shivaji.*
- *Understand the policies adopted by early peshwas.*

B.A.-II Semester-III(Modern India-1757 To 1920 AD)

After completion of this course students will be able to :

- *Understand Modern Indian History.*
- *Understand some of the early resistance to British rule.*
- *Identify the social Institutions of late 19TH century.*
- *Understand early Political a weakening in Indian freedom struggle.*

B.A.-II Semester-IV(History of India- 1920 To 1971)

After completion of this course students will be able to :

- *Understand various phases of the national movement.*
- *Understand the difference between moderates extremists and revolutionaries.*
- *Grasp the details of freedom movement under the mahatma Gandhi''s leadership.*
- *Understand the evolutionary process of constitutional developments.*

B.A.-III Semester-V(History of Modern Word- 1776 To 1920)

After completion of this course students will be able to :

- *Learn about the causes and aftermaths of the French revolution.*
- *Understand the how industrial revolution encouraged to colonial expansion.*
- *Understand the important of world peace right after the world-war first.*
- *Evaluate the Russian revolution and first experiment of communist government.*

B.A.-III Semester-VI(History of Modern Word- 1920 To 2000)

After completion of this course students will be able to :

- *Understand the fascism and the rise of dictatorship in Europe.*
- *Explain the Aftermaths of the World war second on the world Politics.*
- *Understand the how Russia and America emerged as superpowers on the verge of cold war.*
- *Learn about causes and effects fall of soviet state in Russia.*

**SWA. LAXMIBAI ARTS, SCIENCE AND COMMERCE WOMEN'S
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DEPARTMENT OF ECONOMICS

Programme specific outcomes (PSO) –

The students understand the basic concept of in Economics and can apply in the real life. He/She is also update with the recent trends in the subject. The students also build a sound base for various post graduate courses in Economics.

B. A. I Sem. I Course

Paper I- Micro economics

After completion of this course students will be able to :

- *Understand Basic concept of micro economic such law of demand, supply and elasticity.*
- *Understand Theory of Production function, law of returns, law of variable proportion.*
- *Understand Law of Utility and Application of Indifference Curve. & Engles law*

B. A. I Sem. II

Paper I- Micro economics

After completion of this course students will be able to :

- *Understand Prize determination under perfect competition*
- *Understand Equilibrium of Industry and firm.*
- *Understand The decision making process in different market situation such as monopoly and monopolistic etc.*
- *Understand Understand the rent, wage, interest and profit theory.*
- *Understand the welfare theories.*
- *Understand Analyses the statistical average.*

B. A. II Sem. III

Paper I- Macro economics

After completion of this course students will be able to :

- *Understand Concept and function of money. Understand Quantity theory of money and cash balance approaches.*
- *Understand Inflation, Deflation, index number & trade cycle.*
- *Understand Law of Market- Keynesian theory of employment.*

- *Understand Theories of consumption function and investment function*

B. A. II Sem. IV

Paper I- Macro economics

After completion of this course students will be able to :

- *Understand Function of Commercial and central bank- modern banking service.*
- *Understand Public finance – income and expenditure, GST*
- *Understand International Trade theories*
- *Understand International Monetary fund- World bank, WTO and BRICS.*

B. A. III Sem. V

Paper I- Indian economy

After completion of this course students will be able to :

- *Understand Concept of developed and developing economy.*
- *Understand the population theory and Indian population policy.*
- *Understand Meaning and concept of poverty.*
- *Understand the inequality in India- cause and measures.*
- *Understand place of agriculture in Indian economy and agriculture marketing.*

B. A. III Sem. VI

Paper - Indian economy

After completion of this course students will be able to :

- *Understand the concept of small and cottage industries, Function of trade union.*
- *Understand the concept of economy planning and five year plans.*
- *Understand the functions of NITI Ayog.*
- *Understand the composition and direction of Indian foreign trade.*
- *Understand basic concept of ecology environment and economy*

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DEPARTMENT OF POLITICAL SCIENCE

PROGRAMME SPECIFIC OUTCOMES

- *Understand the inter-connection between local, state, national and international politics.*
- *Understand the contribution of the main traditions of western political thinkers to political thought.*
- *Understand the processes and dynamics of Indian government and politics. It also political parties, emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.*
- *Understand the basic concept and ideological orientations of political science discipline.*
- *Understand the contribution of the main traditions of Indian Political Thought.*
- *An understanding the evolution, development and trends of India's foreign policy.*
- *Understand the basic concept and issues concerning human rights and challenges.*
- *Knowledge about political system of the nation. Creating appropriate and efficient political leaders.*
- *Getting knowledge of political law and Constitution of India.*
- *Study of national and international political affairs.*
- *Understand the women's issues and problems.*
- *Familiarize with the problems and prospects of rural development of India.*
- *Understand the cultural, social, political, economic and constitutional environment as a historical perspective of Indian Administration.*

Course Outcomes

B. A. I (I Sem.) Indian Democracy

After completion of this course students will be able to :

- *Glimpses of the background of the Indian Constitution, federal features, judicial review, parliamentary supremacy, concept of basic structure.*
- *Covers the preamble, fundamental rights, directive principles of state policy, fundamental duties and amendment procedure.*
- *Deals with federalism, centre state relations, centre state conflicts, regionalism, secularism.*
- *Delineates the structure of government namely executive, legislature and judiciary.*
- *Highlights the political parties, electoral process and voting behavior.*
- *Acquiring the knowledge about Indian Constitution.*
- *Getting awareness about one's rights and duties.*
- *Getting information about political parties and system of justice in India.*
- *Knowing about the problems and challenges in Indian politics.*

B. A. I (II Sem.)

Local Self Government

After completion of this course students will be able to :

- *To learn the meaning, nature, scope and objectives of Rural Development in India.*
- *Explains the administrative set up for Rural Development.*
- *Describes the concept of Panchayati Raj and Rural Development.*
- *Analysis of Rural Development programmes of India.*
- *.Discusses the problems of Rural Development.*
- *Study of the local governing mechanism.*
- *Developing leadership at local level.*
- *Students enable to explain the role of British imperial on local government in India.*
- *Students enable to understand the contributions of various committees on local government.*
- *Students enable to describe the features and provisions of Constitutional Amendment Acts regarding Local Government Institutions.*
- *Students enable to equip the learner to play an active and responsible leadership role e in the functioning of Local Government Institutions.*
- *Students enable to describe the significance and role of Grama Sabha in Maharashtra.*

B. A. II (III Sem.)

Political Theory

After completion of this course students will be able to :

- *Students enable to understand the nature and scope of political theory.*
- *Students enable to understand the significance of political theory.*
- *Students enable to acquaint with the theories, approaches, concepts and principles of political theory.*
- *Students enable to appreciate the procedure of different theoretical ideas in political theory.*
- *Students enable to Interpret and assess information regarding a variety of political theory.*
- *Students enable to understand the various traditional and modern theories of political science.*
- *Students enable to evaluate the theories of origin of the state.*

B. A. II (IV Sem.)

Political Analysis and Concepts

After completion of this course students will be able to :

- *Students got ability introduces Political Theory as a distinctive area of inquiry that is integral to the study of politics.*
- *Students got ability to highlights contemporary normative debates and place them in a historical perspective.*
- *Students enable to projects the global and interdisciplinary orientation of Political Theory. It also emphasizes the interplay of theory and practice in the political process.*
- *Student enables to understand the difference between ideology and thought as well as*

between theory and ideology. Students enable to understand the relationship between ideas and politics.

- *Student enables to understand the core doctrines of each of the ideologies and to make sense of politics through different ideological perspectives.*
- *Student enables to understand various political concept of right, elite, low, power, authority and legitimacy.*

B. A. III (V Sem.)

Indian Political Thought

After completion of this course students will be able to :

- *Study of the Indian Political Thinking and their thoughts.*
- *Study of the contribution of political thinkers in independent movements and their need for modern society.*
- *Explains the ancient Indian political thoughts with reference to Kautilya thinking.*
- *States the political thinking of V.D. Sarvarkar, Lokmanya Tilak,*
- *Highlights the liberal; political thinking of MK Gandhi and Jawaharlal Nehru.*
- *Discuss the political thinking of depressed class movements with reference to Jyotiba Phule and BR Ambedkar.*
- *Student knows the key ideas of political thinking in modern India as it shaped in the colonial context.*
- *Student enable to understand and decipher the diverse and often contesting ways in which ideas of nationalism, democracy and social transformation were discussed by leading Indian thinkers.*

B. A. III (VI Sem.)

Western Political Thought

After completion of this course students will be able to :

- *Covers the political thought of Plato and Aristotle.*
- *Social contract theories of Thomas Hobbes and John Locke.*
- *Enlightenment political thought as reflected in the works of JJ Rousseau and JS Mill*
- *Getting information about western thinkers and their political thoughts.*
- *Comparative study of the ancient thoughts and modern thoughts.*
- *Examine political thought through the Classical, Renaissance, and Enlightenment periods based on the works of Plato, Aristotle, Hobbes, Locke, Rousseau, and Marx; Compare and contrast the concepts of justice, freedom, equality, citizenship, and sovereignty in the works of Machiavelli, Hobbes, Locke, and Rousseau; Explain the different versions of, and importance of, the state of nature to political thought.*
- *Explain Karl Marx's worldview, with particular regard to his critique of democracy and the modern, politically liberal state; how it came to be; and its fundamental link to capitalism; and Explain John Stuart Mill's theory on utilitarianism and how he applies it to society and the state.*

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DEPARTMENT OF SOCIOLOGY

PROGRAMME SPECIFIC OUTCOMES

Sociology seeks to understand all aspects of human social behavior, including the behavior of individuals as well as the social dynamics of small groups, large organizations, communities, institutions, and entire societies. Sociologists are typically motivated both by the desire to better understand the principles of social life and by the conviction that understanding these principles may aid in the formulation of enlightened and effective social policy. Sociology provides an intellectual background for students considering careers in the professions or business. Graduate student of Sociology should be able to develop.

- *Critical Thinking:*
The programme seeks to develop in students the sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues.
- *Sociological Understanding:*
The ability to demonstrate sociological understandings of phenomena, for example, how individual biographies are shaped by social structures, social institutions, cultural practices, and multiple axes of difference and in equality. Written and Oral Communication: The ability to formulate effective and convincing written and oral arguments.
- *Better understanding of real life situation:*
The ability to apply sociological concepts and theories to the real world and ultimately their everyday lives.
- *Analytical thinking:*
Field survey and preparation of dissertation paper is an inseparable part of Sociology Programme. Students have to collect primary data for census as well as his/her research topic and analyze the data to draw conclusions. So, qualitative and quantitative analytical skills are enhanced.
- *Observation power:*
A sensible observation power is necessary to identify the research problems in field study. So a perception about human society slowly grows up.
- *Professional and Career Opportunities :*
Students will have the opportunity to join professional careers in Sociology and allied fields. Sociology provides an intellectual background for students considering careers in business, social services, public policy, government service, nongovernmental organizations, foundations, or academia. This programme lays foundation for further study in Sociology, Social work, Rural Development, Social Welfare and in other allied subjects.

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PROGRAMME: B.A. (SOCIOLOGY).

COURSE OUTCOME COURSE

B. A. I (I Sem.):

INTRODUCTION TO SOCIOLOGY –I

After completion of this course students will be able to :

- *Define Sociology and demonstrate nature, scope and subject-matter of Sociology.*
- *Demonstrate how Sociology differ from and similar to other social sciences and their areas of interdependence.*
- *Know the basic social institutions like family, marriage, kinship in a scientific way.*
- *Understand and demonstrate how self develops through various process of interaction. Demonstrate how societal and structural factors influence individual behavior.*

B. A. I (II Sem.)

INTRODUCTION TO SOCIOLOGY –II

After completion of this course students will be able to :

- *Acquaint themselves with the basic concepts of Sociology like society, community, association, culture, social change, social stratification , socialization, Social mobility etc.*
- *Describe Caste and Class and Elaborate on relationship between social stratification and mobility; types of social mobility; Social and Occupational Mobility, Gender and Social Mobility and factors of mobility.*
- *Describe Social Change – Theories and Factors of Social Change and Sociological Perspectives on Scientific practice : Marx, Durkheim & Merton*

B. A. II (III Sem.)

Social Problems in Contemporary India

After completion of this course students will be able to :

- *In this course, students will be able to study many types of contemporary issues in India. Students will also be able to learn how to solve this problem*
- *Various social problems in India like poverty, illiteracy, domestic violence, violence against women and measures taken to eradicate the problems.*
- *In this course students will get information about what are called social problems and what are their forms and types.*

- *In this course students will get information Key concepts of Social Demography, Demographic factors of social change. Theories of population, Factors affecting mortality and fertility, Population policy in India.*

B. A. II (IV Sem.)

Social Problems in Contemporary India

After completion of this course students will be able to :

- *In this course, students will be able to study many types of contemporary problems and issues in India.*
- *It enables students to understand various social problems that prevail in the Indian society. The major problems like family disorganization, crime, juvenile delinquency, child labour and problems of aged people are discussed and possible solutions are suggested.*
- *To develop the skill to write a dissertation addressing „social problems“ based on field work.*
- *Understand the current societal problems like education, displacement etc.*

B. A. III (V Sem.)

Sociology of Tribal Society

After completion of this course students will be able to :

- *Introduce them with the geographical distribution, economy, polity, social organization of tribal life of India.*
- *Know the problems faced by the tribes and policies and programmes taken by the Govt. for the upliftment of tribes.*
- *Define Tribal Sociology and demonstrate nature, subject-matter and importance of studying Tribal Sociology.*
- *Understand and analyze Panchayati Raj Act 2013 and social, economic and political aspects of Tribal society.*

B. A. III (VI Sem.)

Sociology of Tribal Society

After completion of this course students will be able to :

- *Define and demonstrate democratic decentralization of power and importance of Panchayati Raj Institution in bringing about changes in Tribal society.*
- *Understand the changes that are taking place in Tribal society with reference to agrarian reforms and Tribal development programmes.*
- *Comprehend the various features of Indian Society and culture including unity in diversity; Indian social structure and understanding rural, urban and tribal India.*
- *Getting acquainted with the structure and changing nature of Indian tribal society. study how politics affects society in this way*

