

Anand Charitable Sanstha, Ashti
Anandrao Dhonde Alias Babaji Mahavidyalaya,

Kada, Tal. Ashti, Dist. - Beed (M.S.) 414202

DEPARTMENT OF CHEMISTRY

Programme Outcomes:

Knowledge outcome:

After completing B.Sc. Chemistry Programme students will be able to:-

- PO1: Transfer and apply the acquired fundamental knowledge of chemistry, including Basic concepts and principles of 1) Organic chemistry, Inorganic chemistry and Physical Chemistry; 2) Experimental methods for chemistry to study different branches of chemistry;
- PO2: Demonstrate the ability to explain the importance of the Periodic Table of the Elements and represent key aspects of it and its role in organizing chemical information.

Program Specific Outcomes:

After completing B. Sc. Chemistry, students will be able to:-

- PSO1: Understand the nature and basic concepts of Physical, Organic and Inorganic Chemistry,
- PSO2: Analyze Organic and inorganic compounds qualitatively and quantitatively;
- PSO3: Understand the applications of physical, organic and inorganic chemistry in pharmaceutical, agriculture and chemical industries,
- PSO4: Able to perform experimental procedures as per laboratory manual in the area of physical, Inorganic and organic chemistry,
- PSO5: Interpretation and synthesis of chemical information and data obtained from Chemical and instrumental analysis.

Course Outcomes:

F.Y.B.Sc. Chemistry (Semester – I)

Paper-I, Inorganic Chemistry:

At the end of course student will be able to:-

- CO1: define Atomic orbital's, Quantum numbers, Heisenberg uncertainty principle, shapes of s, p, d orbital's. Aufbau and Pauli exclusion principles. Hund's multiplicity rule. Bohr's atomic model
- CO2: classify Atomic and Ionic radii, Ionization Energy, Electron affinity and Electro negativity.

CO3: describe diagonal relationship, salient features of hydrides, solvation and complexation tendencies including their functions in bio systems.

CO4: study (including diagonal relationship) the groups of 13-17 elements.

Paper-II, Organic Chemistry:

At the end of course student will be able to:-

CO1: explain structure and bonding in molecule.

CO2: describe the various organic reaction mechanism, reactive intermediate, reagents and energy.

CO3: discuss stereochemistry of various organic compound and determine R and S configuration of chiral molecule.

CO4: define methods of formation alkanes, Physical properties alkanes and Chemical reactions of alkanes.

CO5: describe the saytzeff rule, hafmann elimination, markownikoffs rule and polymerization for alkenes.

CO6: explain the aromaticity, side chain structure of benzene.

CO7: interpret the polyhalogen compound and method of formation of aryl halides. .

F.Y.B.Sc. Chemistry (Semester – II)

Paper-IV, Physical Chemistry:

At the end of course student will able to:-

CO1: calculate logarithmic relation, slope of graph, and differentiation of various functions.

CO2: define kinetic theory of gases, Boyles law, Charles law and Avogadros hypothesis.

CO3: explain the rate of reaction for zero order, first order second order and pseudo order reaction and concept of activation energy.

CO4: distinguish between solid state, liquid state, gases state and liquid crystal.

CO5: explain types of solids and laws of crystallography and to derive Bragg equation.

CO6: describe various colloidal states that is sols, emulsions and gels.

Paper-V, Inorganic Chemistry:

At the end of course student will able to know:-

CO1: explain chemical properties of the noble gases, chemistry of xenon.

CO2: discuss covalent bond, ionic bond, hydrogen bond and metallic bond in molecule.

CO3: define atomic number, mass number, isotope, isobar binding energy radio activity and carbon dating technique.

CO4: define types of titrations, volumetric apparatus, calibration of pipette, burette. Indicators used in pH - titrations, oxidizing agents used in titrations.

Paper-(III+VI) Practical Chemistry:

At the end of practical course student will able to -

CO1: Set up the apparatus properly for the given experiments. Perform all the activities in the laboratory with neatness and cleanness;

- CO2: handle laboratory glassware's, hazardous chemicals safely in laboratory;
- CO3: Determine equivalent weight of Mg.
- CO4: Determine Viscosity of ethanol-water by viscometer measurement.
- CO5: Maintain records of quantitative and qualitative analysis;
- CO6: Acquire laboratory skills for preparation of 0.1N NaOH solution and standardization by oxalic acid solution.
- CO7: Explain mole concept and its application in the preparation of normal and molar solutions, and use of mole concept in quantitative calculations.
- CO8: apply the effect of acid strength on the hydrolysis of an ester.
- CO9: perform verification of Lambert-Beers law using Colorimeter.
- CO10: handle laboratory glassware's, hazardous chemicals safely in laboratory;

S.Y.B.Sc. Chemistry (Semester –III)

Paper-VII, Organic Chemistry:

At the end of course student will be able to:–

- CO1: define monohydric alcohols, dihydric Alcohols, trithydric Alcohols and reactions of Glycerol.
- CO2: Describe preparation of Phenol, Physical properties, acidic nature of Phenol and mechanism involve in various reactions of Phenols.
- CO3: Explain preparation, physical properties, Aldehyd, and mechanism involve in aldehydes and ketons.
- CO4: define acidity of Carboxylic Acids, effects of substituents on acid strength, preparation, physical properties and reactions of Carboxylic Acids.
- CO5: describe the preparation of various organic compound with nitrogen.

Paper-VII, Physical Chemistry:

At the end of course student will be able to:–

- CO1: Define terms like System, Surrounding, intensive, extensive properties and thermodynamic Process, laws of Thermodynamics, Internal energy, Enthalpy. Heat capacity and Hess's law of heat Summation and its application.
- CO2: explain Carnot Cycle, its efficiency, Carnot Theorem, Concept of Entropy, entropy change in Physical change, Entropy as criteria of Spontaneity & Equilibrium, Gibbs and Helmholtz Functions.
- CO3: discuss equilibrium constant, free Energy, thermodynamic Derivation of Law of Mass Action, Le Chatelier's Principle, reaction Isotherm, Reaction Isochore and Clausius-Clapeyron Equation.

S.Y.B.Sc. Chemistry (Semester –IV)

Paper-X, Inorganic Chemistry:

At the end of course student will be able to:–

- CO1: discuss the general Characteristic features of d-block elements, properties of the elements of the first transition series, ionization potential, magnetic properties and Oxidation State.

- CO2: explain the Werner's Co-ordination theory and its experimental verification, effective atomic number concept, chelates, nomenclature of co-ordination compounds, isomerism in co-ordination compounds.
- CO3: explain occurrence, isolation and application of Lanthanides.
- CO4: interpret position of actinides in the periodic table, electronic configuration, oxidation State and chemistry of separation of Np, Pu and Am from U
- CO5: describe various theories of concept of Acids and Bases.
- CO6: define physical properties of a solvent, types of solvents and their general Characteristics.

Paper-XI, Physical Chemistry:

At the end of course student will be able to:-

- CO1: discuss the terms: Phase, Component, Degree of Freedom, Derivation of Phase Rule Equation. Phase Equilibrium of the One Component, Two Components System Solid Solutions: Raoult's Law and Henry's Law. Ideal and Non-Ideal, Ethanol-Water System.
- CO2: classify the conduction in metals and in Electrolyte Solutions and define Kohlrausch's law, Arrhenius Theory of Electrolyte Dissociation and its limitations,
- CO3: explain Weak and Strong Electrolytes, Ostwald's Dilution Law, and Conductometric Titration its Types and advantages.
- CO4: define the types of Reversible Electrodes, Nernst Equation, Derivation of Cell, E.M.F. and single Electrode potential, Standard Hydrogen Electrode, Reference Electrodes, Standard Electrode Potential, Sign Conventions, Electro-Chemical Series and its significance.

Paper-(IX+XII) Practical Chemistry:

After completion of practical course student should be able to

- CO1: Laboratory skills for the purpose handling different equipment's
- CO2: determine critical solution temperature of phenol- water system.
- CO3: determine the solubility of benzoic acid at different temperature.
- CO4: determine the refractive index of ethanol -water system.
- CO5: determine heat of neutralization of NaOH and HCL/ Acetic Acid.
- CO6: Determination of molecular mass of polymer from viscosity measurement.
- CO7: the estimation of Nickel gravimetrically as Ni-DMG complex.
- CO8: preparation of benzoyl derivative of Anilene b-Naphthol
- CO9: estimation of ester by hydrolysis.
- CO10: determination of normality and strength of HCL/Acetic Acid using 0.1N NaOH solution

T.Y.B.Sc. Chemistry (Semester -V)

Paper-XIII, Physical Chemistry:

At the end of course student will be able to:-

- CO1: explain Black body radiation, Planck's radiation law, photoelectric effect, Bohr's modes of hydrogen atom. Compton effect, De Broglie Hypothesis, the Heisenberg's uncertainty principles, Hamiltonian operator, Schrödinger wave equation and quantum numbers.
- CO2: discuss electromagnetic radiation, basic features of different spectrometers, Rotational Spectrum - Diatomic molecules, energy levels of a rigid rotor, selection rule, and rotational spectra of rigid diatomic molecule and determination of bond length.
- CO3: define introduction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry, Jablonski diagram, quantum yield and photosensitized reactions.
- CO4: explain optical activity, dipole moment, magnetic property, Applications of optical activity.
- CO5: explain the introduction of nano-materials, Methods of Synthesis and its application.

Paper-XIV, Organic Chemistry:

At the end of course student will be able to:-

- CO1: interpret Nuclear magnetic resonance spectroscopy, Proton magnetic resonance spectroscopy and the structure elucidation of simple organic compounds using UV, IR spectroscopic techniques.
- CO2: describe the Grignard reagent formation, structure and chemical reactions.
- CO3: explain the preparation of aceto acetic ester, acidity of alpha hydrogen, properties and reactions involving formation of mono, di and unsaturated carboxylic acids.
- CO4: understand the natural fats, edible and industrial oils of vegetable origin, manufacture of soya bean oil by solvent extraction method, isolation, uses of essential oils and types of animal fats and oils, saponification value, iodine value, acid value and Detergents.

Paper-XVI, Inorganic Chemistry:

At the end of course student will be able to:-

- CO1: apply the Elementary idea of Crystal Field Theory, Crystal Field Splitting in Octahedral, Tetrahedral and Square Planar Complexes and Factors affecting Crystal Field Parameters.
- CO2: discuss the types of Electronic Transitions, Selection rules for d-d transitions, Energy level diagram for d1, d5 and d9 Electronic Spectrum of $[Ti(H_2O)_6]^{3+}$ complex ion.
- CO3: define preparation, properties, Bonding, Applications of alkyls and aryls of - Li, Al, Hg, Sn and Ti.
- CO4: explain the Essential and trace elements in biological processes.

CO5: classify the chromatography Paper and Thin Layer Chromatography and Method of development Locating Technique, R f value Comparison between paper and TLC Applications.

Paper-XVII, Organic Chemistry:

At the end of course student will be able to:-

- CO1: write the molecular orbital picture and aromatic characteristics of heterocyclic compound and mechanism of nucleophilic substitution reactions in heterocyclic compound.
- CO2: define interconversion of Glucose and Fructose, Mechanism of Mutarotation and Introduction to disaccharides and Polysaccharides without involving structure determination.
- CO3: explain introduction, Classification, Properties and use of synthetic polymers
- CO4: explain the colour, constitution of dye and classification based on chemical constitution.

Paper-(XV+XVIII) Practical Chemistry:

After completion of practical course student should be able to-

- CO1: Maintaining records of chemical and instrumental analysis.
- CO2: Laboratory skills for the purpose of collecting, interpreting, analysing, of various practical data.
- CO3: Laboratory skills for the purpose handling different analytical instruments.
- CO4: Interpretation of results of experiment and their correlation with theory.
- CO5: Study of conduct metric, potentiometric, and pH metric principles.
- CO6: Apply of conduct metric, potentiometric, colorimetric and pH metric measurement in quantitative analysis.
- CO7: apply the use of Refractometric measurement and its application.
- CO8: Maintaining records of quantitative and qualitative analysis.
- CO9: Laboratory skills for the purpose of collecting, interpreting, analysing, and reporting of chemical data.
- CO10: Separation and identification skill of various binary mixtures.
- CO11: Identify methods and instruments that can be used qualitative and quantitative analysis.
- CO12: understand Mole concept and its application in the preparation of normal and molar solutions, and use of mole concept in quantitative calculations for inorganic analysis
- CO13: Synthesis and purify coordination compounds.
- CO14: Statistical treatment to quantitative data
- CO15: Perform organic synthesis and follow the progress of the reaction by using TLC technique

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Department of Mathematics

Program Outcomes:

- PO1: The importance of mathematics and investigate the real world problems and learn to how to apply mathematical ideas and models to those problems.
- PO2: Investigate and apply mathematical problems and solutions in a variety of contexts related to science, technology, business and industry, and illustrate these solutions using symbolic, numeric, or graphical methods.
- PO3: Find the type and solve abstract mathematical problems and give geometrical interpretation of various concepts.
- PO4: Known connections between different subjects in mathematics.
- PO5: Formulate and analyze mathematical problems, precisely define the key terms, and draw clear and reasonable conclusions.
- PO6: Promote the students to enhance their knowledge in soft skills and Computing skills.
- PO7: Enable the students to equip knowledge in various concepts involved in Mathematics.

Course Outcomes:

F.Y.B. Sc (Mathematics)

MAT 101: Calculus I (Sem. I)

- CO1:** After completion of this course student will know Functions, Limit, Continuity, Differentiation, hyperbolic and inverse functions, their properties and derivatives.
- CO2:** To know the knowledge and skill to find some standard results of successive differentiation, n^{th} derivatives of powers of sines and cosines.
- CO3:** Explain Leibnitz's theorem and solve n^{th} derivatives of rational functions.
- CO4:** Student will able to know Mean value theorems, meaning of sign of derivatives. Describe the concept of higher derivatives, theorems. Compute Taylor's and Maclaurin's expansions of some functions.
- CO5:** Student will know Partial differentiation, total differentiation, derive theorems and solve examples.
- CO6:** Student will able to know scalar, vector function, directional derivatives, Gradient, divergence and curl, derive some properties and solve examples.

MAT 102: Differential Equations (Sem- I)

- CO1: Define the terms differential equation, order, degree, exact differential equation, exact condition, Linear equation, Bernoulli's equation,
- CO2: Find complementary function, particular integral, complete integral, case of auxiliary equations, short method of finding particular integral.
- CO3: Define homogeneous linear equation, method of finding the solution of particular integrals. Equation reducible to homogeneous linear form.
- CO4: Define exact differential equation, solution of exact diff. equations, first integral forms of the diff. equations.
- CO5: Solve of the simultaneous diff. equations which are linear and of the first order.
- CO6: Define partial diff. equation, explain the method of PDE by elimination of constants and arbitrary function.

MAT 201 Calculus II (Sem. II)

- CO1: After completion of this course student will be able to learn reduction formulae of Some standard functions, trigonometric functions..
- CO2: To learn integrations of algebraic rational functions.
- CO3: To develop the knowledge of application of integration in evaluating the length of arc, area, Volume of revolution of a curve.
- CO4: To develop the knowledge about surface and line integral.
- CO5: Student will know evaluation of integrals using Green's, Stoke's and Gauss theorems.

MAT 202 : Geometry (Sem- II)

- CO1: Explain the concepts of Geometry by using basic definitions.
- CO2: Calculate shortest distance between skew lines, radius, centre of sphere and angle between planes and lines, cylinder, cone by using some formulae.
- CO3: Determine the condition of tangency for the Sphere by using basic formulae.
- CO4: Define central conicoid, intersection of line and central conicoid, equations of tangent lines and tangent plane, find the condition that a plane may touch a central conicoid.

S. Y. B. Sc (Mathematics)

MAT 301: Number Theory (Sem- III)

- CO1: Define the terms division algorithm, gcd, lcm, Euclidean algorithm, solve the Diophantine equations.
- CO2: Explain the fundamental theorem of arithmetic.

- CO3: Explain Fermat's thm, Little thm, Willson's thm.
- CO4: Define the function τ and σ , explain the Mobius inversion formulae .
- CO5: Define Euler ϕ – function and explain Euler's thm.

MAT 302 : Integral Transform (Sem- III)

- CO1: Define the terms beta and gamma function, properties of gamma function, relation of $\Gamma(x)\Gamma(y)$ between beta and gamma function.
- CO2: Define the terms piece-wise continuous function , exponential order, function of class A, Laplace transform , some standard results of L.T.
- CO3: Define the inverse of L.T. Null function , some thm on inverse of L.T. Example of inverse of L.T. Partial fraction , Heaviside expansion formula.
- CO4: Application of L.T. to the differential equations.
- CO5: Define the Fourier sine and cosine transform, find the relation between Fourier and Laplace transform, finite Fourier sine and cosine transform, explain Fourier integral thm.

MAT 303 Mechanics I (Sem. III)

- CO1: After completion of this course student will able to learn forces acting on a particle, equilibrium of forces acting on a particle.
- CO2: To learn forces acting on a rigid body.
- CO3: Define Centroid and Centre of gravity and to learn Centre of gravities of some standard uniform bodies like rod, triangular lamina and parallelogram.

MAT 401 : Numerical Methods (Sem- IV)

- CO1: Recall definitions and formulae of various numerical methods for finding roots of the equations, interpolation,
- CO2: Explain least square curve fitting procedures, explain method of fitting of straight line and non -linear curve fitting, find the Chebyshev polynomials.
- CO3: Solution of linear system of equation by different numerical method.
- CO4: Solution of ordinary differential equations by using numerical methods.
- CO5: Solve the problems in Numerical methods, apply theorem to find numerical solution.
- CO6: Explain concepts of numerical methods and evaluate problems.

MAT 402 : Partial Differential Equations (Sem- IV)

- CO1: Define the terms PDE, Lagrange's Linear PDE ,Explain method of the Lagrange's LPDE.

- CO2: Define the terms complete integral, particular integrals, general integrals, singular integrals, explain the standard forms I to IV, solve the non-linear PDE of order one by using Charpit's method and Jacobi's method.
- CO3: Define the linear homogeneous PDE, non-homogeneous linear PDE, explain the method the equation reducible to linear form with constant coefficient.
- CO4: Solve the PDE of second order by using Monge's method and method of transformation.

MAT 403 Mechanics I (Sem. IV)

- CO1: After completion of this course student will be able to learn kinematics and dynamics of a particle in two dimensions.
- CO2: Expressions for velocity and acceleration and their components in different directions.
- CO3: To learn Newton's law of motions and their deductions.
- CO4: To develop the knowledge about momentum, Impact of bodies, Energy, field and conservative field of force, potential function.
- CO5: Student will be able to learn rectilinear motion, Projectile, Equation of projectile, Time of flight, horizontal range and highest point of trajectory and parabola of safety.
- CO6: Student will be able to learn Kepler's laws of planetary motions.
- CO7: Define central orbit, Apses, law of force. Evaluate the differential equation of the central orbit in polar and pedal form.

T. Y. B. Sc.

MAT 501 Real Analysis I (Sem. V)

- CO1: After completion of this course student will be able to know functions, sequence and series of real numbers and their convergence and divergence.
- CO2: To learn bounded sequence.
- CO3: To learn Jacobian's, Derive theorems and solve examples.

MAT 502: Abstract Algebra -I (Sem - V)

- CO1: Define the terms group, subgroup, normal subgroup, factor group, cyclic group, some preliminary lemma on group and subgroups, explain Lagrange's thm.
- CO2: Justify converse of Lagrange's thm in Group Theory by giving counter examples.
- CO3: Give examples of group, subgroup, abelian group, normal group, factor group, cyclic group.
- CO4: Solve examples to find order of quotient group, left cosets, right cosets, Direct products.
- CO5: Classify the normal, quotient group, Classify the groups as homomorphic and non-homomorphic,
- CO6: Define the terms ring, subring, integral domain, Field, the definitions and illustrate it giving examples, define the integral domain, Field.
- CO7: Solve examples of ideals, prime, principal and maximal ideals, Apply the theorems for solving examples of finding elements of factor ring, irreducible polynomials.

MAT 504 Ordinary differential equation I (Sem. V)

- CO1: Student will able to know sums, difference, product, quotient, conjugate, modulus and argument of complex numbers
- CO2: Calculate exponentials of complex numbers.
- CO3: Solve problems on the basic concept of modulus, arguments of complex numbers, De-moivre's theorem use them to find roots.
- CO4: Solve linear differential equations with constant coefficients, non homogeneous differential equations of first order and first degree equations.
- CO5: Solve linear differential equation by power series method

MAT 601 Real Analysis II (Sem. VI)

- CO1: Define the concept of metric space and learn basic concepts of open sets, limit point, closure of set and closed sets.
- CO2: To learn continuity of a function defined in metric space.
- CO3: To learn concept of compactness, connectedness and completeness.
- CO4: Evaluate Fourier series expansion for given functions.
- CO5: Find cosine and sine series for given functions.

MAT 602: Abstract Algebra -II (Sem - VI)

- CO1: Define concepts as Vector Spaces, subspace, span, kernel, linearly dependent etc.
- CO2: Describe spanning of vector space, inner product of vectors, linear transformation for set of vectors.

- CO3: Give counter examples of vector space and subspace, linear dependence, basis set.
- CO4: Apply dimension theorem to find nullity and dimension of vector space.
- CO5: Calculate coordinate vector, orthogonality, orthonormality, norm of vectors using formulas, Explain Gram Schmidt process to convert basis to orthonormal basis.
- CO6: Define the terms modules, R-modules sub-modules and its examples. Some theorems on modules and sub-modules.

MAT 604 Ordinary differential equation II (Sem. VI)

- CO1: Student will able to know initial value problem for the homogeneous equation, reduction of order of a homogeneous equation, Legendre polynomial.
- CO2: To learn expression of existence theorem and uniqueness theorems.
- CO3: Find linearly independent power series solution of differential equations with variable coefficients.
- CO4: Solve linear differential equations with regular singular points.

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Department of Physics

B. Sc. Physics

Programme outcome

PO 1: The programme enables the students to understand basic facts and concepts in physics while retaining the exciting aspects of physics so as to develop interest in the study of physics as a discipline

PO 2: To develop the ability to apply the principles of physics

PO 3: To appreciate the achievements in physics and to know the role of physics in nature and in society

PO 4: To develop problem solving skill

PO 5: To be familiarized with the emerging areas of physics and their application in various spheres of physical science and to appraise the students of its relevance in future studies

PO 6: To develop skills in the proper handling of apparatus

PO 7: To be exposed to the different process used in industries and their application

PO 8: To produce graduates who excel in the competencies and values required for leadership to serve a rapidly evolving global community

PO 9: To motivate the students to pursue PG courses in reputed institutes

PO 10: To kindle the interest for research in students

PO 11: To acquire placement in educational institutions, engineering and industrial firms.

PO12: To endow the students with creative and analytical skills; this will equip them to become entrepreneurs.

The syllabi are framed in such a way that it bridges the gap between the plus two and post graduate levels of Physics by providing a more complete and logical framework in almost all areas of basic Physics.

Course outcome

First year

Semester I

CO-PHY 101 – Mechanics, Properties of Matter and Sound

objective: Knowing the Mechanical properties of body using Newton' low of gravitation calculating gravitational field gravitational potential of solid sphere and spherical shell at a point inside and on the surface, knowing elastic properties, viscosity and surface tension of a body , ultrasonic and acoustics laws and terms.

CO-PHY 102 – Heat and Thermodynamics

Objective: To study the behavior of solid liquid and gases and their properties by the variation of temperature changes, calculation thermal conductivity real gases phenomenon variation of mean free path with temperature, knowing the thermodynamics of a system working of different engines and also entropy and thermodynamic relations

CO- PHY 103 – Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

Semester II

CO-PHY 104 – Geometrical and Physical Optics

Objective: For the study of optical concept and its uses and importance.

CO – PHY 105 – Electricity and Magnetism

Objective: Understanding the concept of electricity and magnetism and their phenomenon

CO – PHY 106 Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

Second year

Semester III

CO – PHY 201 – Mathematical Statistical Physics and Relativity

Objective: Understand and finding the probability of different statics.

CO – PHY 202 – Modern and Nuclear Physics,

Objective: To study of different phenomenon and its principle of photo electric effect, x-ray, nuclear forces and models, particle accelerators and detectors

CO – PHY 203 – Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

CO – PHY 204 – Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

Semester IV

CO – PHY 205 – General Electronics

Objective: Study of different circuit diagram its working and functioning.

CO – PHY 206 – Solid State Physics

Objective: Understand about different solid state material its structure and bonding.

CO – PHY 207 – Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

CO – PHY 208 – Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

Third year

Semester V

CO – PHY 301 – Classical and Quantum Mechanics,

Objective: Study of difference between Newtonian mechanics and quantum concept and theory

CO – PHY 302 – Electrodynamics

Objective: Understanding of different concept of electrostatics, time varying field, electromagnetic waves integration of electromagnetic waves with matter and boundary conditions

CO – PHY 303 – Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

CO – PHY 304 - Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

Semester VI

CO – PHY 305 – Atomic Molecular Physics and Laser,

Objective: Study of atomic and molecular phenomenon and different types of laser.

CO – PHY 306 – Non Conventional Energy Sources and Optical Fiber

Objective: To understand the importance of renewable energy, and fabrication of optical fiber.

CO – PHY 307 – Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

CO – PHY 308 – Verification of theoretical knowledge by experimental work in laboratory and the aim of practical is verified.

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Dept. of Botany

Course out Come:-

- 1] The Student acquires knowledge about General characteristics, morphology, anatomy and reproductive Biology in Pteridophytes, Gymnosperms and fossil.
- 2] The students learn about general characteristic, morphology, reproduction and economic importance of algae, fungi and Bryophyte
- 3] The student become familiarize themselves with Angiosperms like its Taxonomy, Morphology, Embryology and Anatomy,
- 4] The student becomes competent in understanding plant physiological process, plant metabolism and ecology, phytogeography.
- 5] The student acquires preliminary knowledge, cell biology, Genetics, molecular biology and Biotechnology.

B.Sc.F.Y. Seme – I

Paper.No. I: - Diversity of cryptogams

- 1] Knowledge and understanding about plant diversity.
- 2] Career opportunities and job opportunities.
- 3] After completion of this course the student is expected to describe the cryptogams, plant diversity like viruses, mycoplasma, Bacteria, Lichens, Algae and Fungi

Paper- II: - Morphology of Angiosperm:-

- 1] It gives knowledge of identification of flowering plants and its classification system up to genus to species level and also describes economic importance.
- 2] It gives knowledge of different plant families and species of Angiospermic plant and describe conservation method of different plants.

B.Sc.F.Y. Seme – II

Paper No - IV Diversity of scytogams= II

- 1] After completion of this course the students are expected to describe the cryprograms plant diversity like Bryophytes and pteridophytes.
- 2] Understand the morphological diversity of Bryophytes and economic importance of Bryophytes and pteridophytes :-

Paper No- V Histology, Anaantomy and Embryology.

- 1] After completion of this course students are expected to describe the morphology of angiosperm plant and its histology, Anatomy & Embryology.
- 2] The general term, anatomy for the study of internal structure of plants.

B.Sc.S.Y. Seme – III

Paper.No. VII- Taxonomy of Angiosperms:-

- 1] Understand the systems of classification of Angiosperms, nomenclature and interdisciplinary approaches.
- 2] Recognize members of the major Angiosperms
- 3] Families by identifying their diagnostic features and economic importance

Paper. No. – VIII –Plant ecology: -

- 1) After completion the course the students are expected how to conserve soil and water.
- 2) To understand how to control air, water and noise pollution.

B.Sc.S.Y. Sem – IV

Paper.No. XI Gymnosperm and utilization of plant: -

- 1) After competition of this course students are expected to, it describe Gymnosperm and utilization of plants.
- 2) After competition of this course, students are well known about economic importance of Cycas , Pinus and Gnetum .

B.Sc.S.Y. Sem –IV

Paper No.XII Plant Physiology. Sem-IV

- 1) To understand the process of photosynthesis in higher plants with particular emphasis on light and dark reaction, C3 and C4 pathway.
- 2) To understand the plants and plant cells in relation to water.

B.Sc.T.Y. Sem –V

Paper.No.XV. – Cell Biology and molecular biology

- 1) On completion of the course students of the course students are able to understand the eukaryotic cell cycle and able to understand the eukaryotic cell cycle and mitotic and meiotic cell division.
- 2) In this subject students will understand the cell at molecular level as well as how the process like replication of DNA occurred.

Paper.No. XVI. Diversity of Angiosperms – I,

- 1) Accurately interpretation of collected information and use taxonomical information to evaluate and formulate position of plant in taxonomy.
- 2) To understand plant morphology and basic taxonomy.

B.Sc. T.Y. Sem – VI.

Paper.No.XIX. Genetics and Biotechnology.

- 1) Students are able to understand Mendel's law of inheritance.
- 2) Students understand different type of genetic interaction.
- 3) Students know about genetic engineering.

Paper.No.XX. Diversity of Angiosperms II.

- 1) Students understand the role of plants in human welfare.
- 2) To gain knowledge about various plants and plants or economic use.
- 3) To know importance of plants and plant products.

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Dept. of Zoology.

Program outcome:-

- 1] The Student acquires knowledge about General characteristics, morphology, anatomy and Physiology in different types of invertebrate and vertebrate animals and fossil.
- 2] The students learn about general characteristic of cell and cell organelles with their str. & functions.
- 3] The student become familiarize themselves with museum specimen and slides of relevant invertebrates & protochordata.
- 4] The student becomes competent in understanding animal dissections methods.
- 5] The student acquires preliminary knowledge, cell biology, Genetics, molecular biology. Ecology, Evolution, Fishery science and Biotechnology.

Course outcome:-

B.Sc.F.Y. Seme – I

Paper.No.I: - Protozoa to Annelida. (ZOL-101)

- 1] Knowledge and understanding about Animal classification and general characters.
- 2] After completion of this course the student is expected to describe morphology, classification. Life cycle of various animals.

Paper- II: -Cell biology.(ZOL-102)

- 1] It gives knowledge about str.and functions of cells, methods in cell biology.
- 2] It gives knowledge about microscope and microtechniques.

B.Sc.F.Y. Seme – II

Paper No –IV Arthropoda to Echinodermata and Protochordata.(ZOL-201)

- 1] After completion of this course the students are expected to describe general characters and classification of animals from Arthropoda to Echinodermata.

Paper No- V Genetics-I ZOL-202)1] After completion of this course students are expected to describe the different genetical terms, gene interactions, cytoplasmic inheritance, sex-determination, mutations.etc.

B.Sc.S.Y. Seme – III

Paper.No. VII- Vertebrate Zoology (ZOL-301)

1] During this courcestudent will able to describe Classification and general characters of different vertebrate animals.

Paper. No. – VIII – Genetics- II (ZOL-302)

1) After completion the course the students are expected to explain sex linked inheritance, concept and significance of genetic Engineering,genetic code,

2) To understand Inborn errors in metabolism,genetic disorders, and DNA fingerprints.

B.Sc.S.Y.Sem– IV

Paper.No. XI Animal Physiology.(ZOL-401)

1) Aftercompetition of this course students are expected tounderstand physiology of various

B.Sc.S.Y.Sem –IV

Paper No.XII Biochemistry and Endocrinology.(ZOL-402)

1) During this course students will understand the process of metabolism of organic coupounds.,Mechanism of enzyme action.

2) To understand structure and function of different endocrine glands.

B.Sc.T.Y.Sem –V

Paper.No.XV. Ecology (ZOL-501)

- 1) In this course students will be able to understand concept , terminology used in ecology and different environmental factors.
- 2) To understand concept and types ecosystems.

Paper.No.XVI. Fishery Science – I (Elective paper ZOL–502)

- 1) During this course students will understand history of fishery science, classification & importance of fishes.
- 2) To understand different types of fisheries, remote sensing technique in fisheries.

B.Sc.T.Y.Sem – VI

Paper.No.XIX. Evolution (ZOL-601)

- 1) During this course students will be able to understand concept of organic evolution, origin of life, basic pattern of evolution, etc.

Paper.No.XX. Elective paper-- Fishery Science-II (ZOL-602)

- 1) Students understand the role of fishery science in human welfare.
- 2) To gain knowledge about side business for farmers related with fishery.
- 3) To know importance of fish breeding and fish production,
- 4) To gain knowledge about types of Craft and gears used in fishery science.

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Department of Electronics

B. Sc. Electronics

Programme outcome

PO1: The programme enables the students to understand basic facts and concepts in Electronics while retaining the exciting aspects of electronics so as to develop interest in the study of electronics as a discipline

PO2: To develop logical skill

PO3: To be familiarized with the emerging areas of electronics and their application in various spheres of electronics science and to appraise the students of its relevance in future studies

PO4: To develop skills in the proper buildup of circuit connection.

PO5: To be exposed to the different process used in industries and their application

Course outcome

Semester I

CO-ELE 101 – Network Theorems and Semiconductor Devices

Objective: Study of different network theorems and semiconductor devices

CO-ELE 102 - Digital Electronics

Objective: Study of number system, and digital circuits and functioning

CO- ELE 103 – Verification of theorem and digital number system

Semester II

C0-ELE 201 – Amplifier

Objective: Study of different types of amplifier using transistor and op amp

CO – ELE 202 – Digital Electronics II

Objective: To understand CLK and triggering, flip flop, counters, shift registers, memories, D/A and A/D converters

CO – ELE 204 – Verify the truth table of different circuits

Second year

Semester III

CO – ELE 301 – Operational Amplifier

Objective: To study different amplifier circuits.

CO – ELE 302 – 8085 Microprocessor or 8086 Microprocessor I

Objectives: Understanding the concept of 8085/8086 microprocessor

CO – ELE 303 – To verify the amplifier circuits.

CO – ELE 304 – Verifying the different programs using microprocessor kit

Semester IV

CO – ELE 401 – Communication Electronics

Objective: Understanding about the communication circuits, process of modulation and demodulation signal

CO – ELE 402 – 8086 Microprocessor Interfacing or 8085 microprocessor II

Objective: Study of interfacing memories, features of 8255, 8251, 8253 and machine cycle and timing diagram.

CO – ELE 403 – Practical on IC 555

CO – ELE 404– Practical study of different program and modes

Third Year

Semester V

CO – ELE 501 – Power Electronics

Objective: Study of AC and DC drives and sensors.

CO – ELE 502 – Microcontroller or 8085 Interfacing

Objective: Study of 8051 microcontroller or study of 8255 and 8251 microprocessor

CO – ELE 503 – To design power circuits

CO – ELE 504 – To design and verification of ALP program

Semester VI

CO – ELE 601 – Programmable Logic Controllers or Instrumentation

Objective: Introduction of programmable controller or transducers

CO – ELE 602 – Microcontroller II or 8085 Interfacing II

Objective: Study of interrupt system controller

CO – ELE 603 – Practical Using PLC Simulator.

CO – ELE 604 – Practical Study of Different Sensors.

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Department of Commerce

Program outcome:

- PO1: *To Provide adequate basic understanding about Management education among the student.*
- PO2: *To inculcate Entrepreneurial skill.*
- PO3: *Learner will be able to prove proficiency with the ability to engage in competitive exams like CA, Cs, ICWA and courses.*
- PO4: *To develop the capability of student for knowing banking concepts and operations.*
- PO5: *To train the students in communication skills effectively.*
- PO6: *To enable a student to be capable of making decisions at personal and professional level.*
- Po7: *Use new technologies effectively to communicate ideas in the area of commerce.*

Programme Specific outcomes :

- PSO1: *students will be able to apply basic skill learnt in commerce necessary for analysis of various problems in accounting, marketing, Business Economics & Management.*
- PSO2:- *To develop the skill of applying concept and techniques used in commerce.*
- PSO3:-*Students will able to evaluate national and international issue & discussion on economic, commercial, and business related topics.*

Course Outcome:

B.com. F.Y.Semester I& II:

CO-COM-3384- Business & Industrial Economies:

- CO1: *this course is to acquaint the student with the business & Industrial Economic principles on are applicable in business.*
- CO2: *Describe relationship between industrial and Economic Development.*

Co-Com-3388- Entrepreneurship Development:

- CO1: *To provide knowledge and information about Entrepreneurship Development create ability for setting up an enterprise within given Environment. Create awareness on various Entrepreneurship Development programme.*
- CO2: *To enable them to understand project formulation.*
- CO3: *To familiarize the student with EDP schemes.*

Co-Com 3380-Financial Accounting:

- CO1: *To develop conceptual understanding of fundamentals of financial Accounting system and to import skill in accounting for various kinds of business transactions.*
- CO2: *Explain Accounting Procedure in the Books of the firm under conversion of Partnership firm into Ltd .and solve the problems.*

Co-com-3382- Business Mathematics& Statistics:

- CO1: *The course introduces business statistics and fundamentals aspects of mathematical symbols & notations and few basic formula.*
- CO2: *Differentiate various types and methods of calculating correlation and regression forthe bivariate data.*

Co-com-3386 Computer Application in business:

CO1: To provide computer skills & knowledge for commerce students and to enhance the student understand of usefulness of information technology tools for business operations.

B.Com Second Year Sem.-III & IV:

Co-Com-3381 Corporate Accounting:

CO1: To understand knowledge of New trends in corporate accounting issue of shares & redemption of shares and Debentures.

Co2: To understand knowledge and Explain amalgamation, Absorption, & reconstruction accounting procedure

Co-Com-3026 Marketing Management:

CO1: Understand fundamental marketing concepts, theories and areas of marketing policy of market and consumer behavior, product distribution, promotions.

CO2: To understand the role of marketing on fundamental organizational policy process. Apply the knowledge, concepts, tools, necessary to understand challenges & issue of marketing.

Co-Com3020 Principles of Business management:

CO1: To develop knowledge about evolution of management thoughts.

CO2: To better understanding of planning and decision making. to provide idea about motivation, Importance of communication.

Co-Com-3013I.T. Application in Business:

CO1: To provide basic knowledge & skills of computer Language and introduction to E-commerce, E-marketplaces, E-business application an E-payment system

Co-Com- 3023 Business Regulatory Framework:

CO1: To acquaint students with the basic concepts, terms and provisions of mercantile and business laws.

CO2: To develop the awareness among the students regarding these laws affecting business, trade and commerce.

B. Com T. Y. Sem. V & VI:

Co-Com-3022 Advanced Financial Accounting

CO1: To objective of this course is to equip the students with the ability to analyze, interpreter & use financial accounts in business enterprises.

CO2: To Provide basic knowledge about the accounting principles and procedures.

Co-Com-3012 Cost accounting:

CO1: This course exposes the students to the basic concepts and the tools used in cost accounting

CO2: Helps to a other knowledge on preparation of cost sheet in its practical point view. Develop the knowledge about remuneration and incentives.

Co-Com-3015 Management Accounting:

CO1: The objective of the course is to equip the students with the ability to analysis interpret and use accounting information in managerial decision making.

CO2: The student is accepted to have a good working knowledge of the subject. This course provides the students an understanding of the application of accounting techniques for management.

Co-Com-3018 Indirect Taxes & Direct Taxes:

CO1: This course exposes the students to the basic tax concepts, procedure and Legislation pertaining to Indirect Tax.

CO2:- This course exposes the student to calculate income from salary and income from capital gain

Co-Com-3040 Banking & Insurance:

CO1: This course enables the students to know the fundamental of Insurance and working of the Indian Banking system.

CO2: To equip the students with the knowledge of modern banking, financial and other Economics sectors. To enable them to understand better customer relationship.

Co-Com-3041 New Auditing Trends:

CO1: The study of various components of this course will enable to know about the Auditing procedure.

CO2: Discuss the various concepts of audit like types of errors and frauds, various classes of Audit programme, Audit Note Book, Working Papers, Internal Control-Internal check-Internal Audit

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Dept.-Drama

Programme out comes

Sub:- Dramatics

B.A I नाट्य विषयाचे महत्व

Po- 1 जगण्याचे तंत्र आणि सुखी जीवनाचे सूत्र कळेल.

Po- 2 समाजातील आर्थिक राजकीय सामाजिकधार्मिक व शैक्षणिक स्थित्यंतरे माहिती होतील.

Po- 3 संस्कार व संस्कृती रचना याचा इतिहास अवगत होईल.

Po- 4 लोक रंगभूमी माणसाच्या अनेक प्रश्नावर विविध विषयावर व्यवस्थित मांडणी आरते त्याच्या क्षमता कळतील

B.A II. वेशभूषा व नियोजन.

Po- 1 रंगभूमीचे स्वरूप कळेल.

Po- 2 रंगमंचावरील पायांचा अभिनय समजेल.

Po- 3 वेशभूषा व रंगभूषा यांचा परीचय होईल.

Po- 4 आवाज व संभाषण कला अवगत होतील.

Po- 5 नटातील नाट्यगुण, कलागुण लक्षात येतील.

B.A III Year आधुनिक मराठी रंगभूमी.

Po- 1 आधुनिक मराठी रंगभूमीची पार्श्वभूमी कळेल.

Po- 2 रंगभूमीच्या संकल्पना स्पष्ट होतील.

Po- 3 ग्रामीण रंगभूमी व सामाजिक वास्तव समजेल.

Po- 4 दलित रंगभूमी व अस्पृश्यतेवर आधारित साहित्याचा परिचय होईल.

Po- 5 नाट्यनिर्मितीचे स्वरूप कळेल.

Po- 6 प्रायोगिक रंगभूमीच्या कक्षा समजतील.

Po- 7 रंगभूमी व प्रबोधन यांचा परस्पर संबंध लक्षात येईल.

Po- 8 रंगभूमी आणि मनोरंजन यांची जाणीव होईल.

Po- 9 हौसी रंगभूमीची पार्श्वभूमी लक्षात येईल.

Course Outcome

Co- 1 मानवी जीवन आणि नाट्यसूत्र यांचा अविष्कार करता येईल.

Co- 2 नाट्यकलेद्वारे व्यक्तिमत्व विकास होण्यास मदत होईल.

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Department of Economics
Program outcomes

From the Academic year 2018-19 semester pattern was introduced. The first batch of student under the newly introduced semester system is, therefore, supposed to complete graduation in the year 2019. It thus appears difficult to measure programme specific outcomes on definite terms. However, our esteemed teachers of the Department of Economics have explored rigorously the current syllabus and tried to chalk out some specific outcomes of B.A. three year, six semesters Programme of their own. Such expected outcomes may be listed as follows.

The principal aims of objectives of the BA Economics programme are:

- Po. 1. To provide students a well-founded education in Economics;
- Po. 2. To provide structured curricula which support the academic development of students;
- Po. 3. To provide and adapt curricula that prepare our graduates for employment and further study as economists;
- Po. 4. To provide the students with the opportunity to pursue courses that emphasize quantitative and theoretical aspects of Economics;
- Po. 5. To provide students with the opportunity to focus on applied and policy issues in Economics;
- Po. 6. To provide programmes that allow the students to choose from a wide range of economic specialization;
- Po. 7. To provide a well-resourced learning environment for Economics.

Co Eco 101

**Co: Micro Economic
Objectives**

Theory of costs – traditional theory of costs – short run and long run –m real cost – money cost, explicit and implicit cost- sunk cost – total cost – average cost – marginal cost – reasons for the U shape of the average cost curve – short run and long run cost curves – envelope curve – modern theory of cost- short run and long run curves – ‘L’ shaped and ‘saucer’ shaped curves.

Co Eco 102

**Co: Indian Economy
Objectives**

The objectives of the course are to equip the students with the theoretical, empirical and policy issues relating to the society, policy and economy of India. The course, in particular, has been prepared in the background of the globalization process and its diverse ramifications on the knowledge economy.

Co Eco 104

Co: Modern banking**Objectives**

Banking has a long history in the world. It has undergone profound changes in recent years especially after the far-reaching banking sector reforms in India and elsewhere. The present course is designed to acquaint the students with the working of banks and to familiarize them with the basic principles and concepts which are often used in banking literature.

Co Eco 105**Co: Macro Economic analysis****Objectives**

This course equips the students to understand systems facts and the latest theoretical developments in Macro Economics.

Co Eco 106**Co: Development Issues of the Indian economy****Objectives**

The objectives of the course are to equip the students with the theoretical, empirical and policy issues relating to the society, polity and economy of India. The course in particular, has been prepared on the background of the globalization process and its diverse ramifications on the knowledge economy.

Co Eco 107**Co: Economics of Financial Markets****Objectives**

Financial institutions and markets play a significant role in all the modern economies of the world. The study of this area is significant especially after the financial sector reforms in most of the countries. The present course is designed to acquaint the students with the changing role of the financial sector of the economy. The stake holders are to familiarize with the concepts, the financial institutions and markets.

Co Eco 108**Co: Quantitative techniques for Economic Analysis****Objectives**

The objective of this course is to equip the students with primary statistical and mathematical tools for analyzing economic problems.

Co Eco 109**Co: International Economics****Objectives**

The objectives of this course are to arrive at an understanding of theories of international trade and to examine the impact of the trade policies on the dynamic gains.

Program specific outcome

- Articulate the basic terminology and theories prevalent across various disciplines.
- Understand qualitative and quantitative models within the social sciences, especially economics.

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Department of English
Programme and Course Outcome

B.A. English

Programme Outcomes:

After successfully completing B.A. English Programme students will be able to:

PO1:Analyze literary works with appreciation. They will be able to criticize the works by employing various approaches. They will be able to differentiate texts into proper literary forms. They will also be able to discuss on the literary value of the texts.

PO2: Communicate in written as well as in spoken form effectively. They will use proper words from their enriched vocabulary. They will be able to use grammatically correct sentences following the rules of English grammar.

PO3: Understand the written communication and think critically about it. They will be able to express their opinion about the literary text independently.

PO4: Communicate orally in society. Their communication skills will be improved and they will effectively interact with the people around them.

PO5: Realize their duties and responsibilities of citizenship. They will actively participate in social activities as responsible citizens and perform their duties towards society.

PO6: Acquire the aesthetic behavior. They will understand the human values through various literary forms and will be able to realize the complexities of human life.

PO7:Realize the sensitivity about the world. Understanding and appreciation of great literary works will make the students have depth of thoughts. They will have the positive attitude and sense of responsibility in their nature as well as in their behavior.

Course Outcomes:

F.Y. and S.Y. B.A.

Compulsory English: Learning Language Skills

After successfully completing this course, students will be able to:

CO1: Understand parts of speech.

CO2: Improve their vocabulary.

CO3: Recollect lines in the poems.

CO4: Recall themes of the lessons.

CO5: Describe various topics in the stories and the poems.

CO6: Be introduced to grammatical properties in order to enable them to write and speak English consciously.

CO7: Be trained both in precision and in appropriate use of language through prose reading.

CO8: Get acquainted with a keen and subtle way in which the English language is used.

CO9: Speak grammatically correct sentence.

CO10: Share their views and opinions in fluent English.

F.Y.B.A. Optional English

Optional English: The Structure of English - I & III

After successfully completing this course, students will be able to:

CO1: Speak English with better pronunciation.

CO2: Acquire structure of English language.

CO3: Use various structures of English language.

CO4: Have the proper knowledge about stress and accent in spoken language.

CO5: Apply appropriate grammar in written and spoken language.

Optional English: Reading Literature - II & IV

After successfully completing this course, students will be able to:

CO1: Be introduced to appropriate literary strategies to read literature.

CO2: Pinpoint the difference between literary language and ordinary language.

CO3: Unravel many meanings in literary text.

CO4: Understand the aesthetic value of the literary works.

CO5: Express their views about literary texts.

S.Y.B.A. Optional English

Optional English: Literature in English–V to VIII

After successfully completing this course, students will be able to:

CO1: Understand how the literature of the modern period relates to the important trends of the period.

CO2: Aware of the fact that all readers are critics and introduce them to basic texts in criticism while developing critical thinking in them.

CO3: Be introduced to the thematic concerns, genres and trends to American literature.

CO4: Lead to see how texts are affected by the context.

CO5: Express their views about the literary texts.

T.Y.B.A. Optional English

Optional English: Twentieth Century English Literature - IX to XI

After successfully completing this course, students will be able to:

CO1: Understand the features of literary works produced during the twentieth century.

CO2: Compare the modern and old literature by its literary values.

CO3: Brood over the literary works and bring out the basic difference among the literary works produced in different literary ages.

CO4: Understand the relation between texts and its contexts.

CO5: Express their views about the literary texts and criticize it.

Optional English: Project Work on History of English Literature - VIII

After successfully completing this course, students will be able to:

CO1: Have enough knowledge about history of English literature.

CO2: Choose the area of interest in English literature.

CO3: Express their views and opinions about the chosen interested area.

CO4: Compare the two different areas in English literature and criticize it.

CO5: Understand the literary value and be able to express it with criticism.

B.Com.

Programme Outcomes:

After successfully completing B.Com.(Compulsory) English Programme students will be able to:

PO1: Differentiate between business communication and ordinary communication properly. They will be able to enjoy the communication with better understanding.

PO2: Communicate in written as well as in spoken form effectively. They will use proper words from their enriched business vocabulary. They will be able to use grammatically correct sentences following the rules of English grammar.

PO3: Understand the written and spoken communication. They will be able to express their opinions about the business deals independently.

PO4: Communicate orally and in written form in industrial meetings and business deals. Their communication skills for business will be improved and they will effectively interact with the people in industrial area.

PO5: Understand the necessary ideas for the business communication. They will be able to perform their duties and responsibilities as businessmen and as industrialist. They will actively participate in industrial activities as responsible businessmen and perform their duties.

PO6:Acquire the business mind. They will understand the need for business and the proper conditions and communications for successful business.

PO7: Realize the sensitivity about the business world through the prose related to industrial area. They will be able to understand and appreciate the great personalities in business world. They will have the positive attitude and sense of responsibility in their behavior.

Course Outcomes

F.Y. B.Com.

Compulsory English: Written and Spoken Communication in English

After successfully completing this course, students will be able to:

CO1:Understand the grammatical rules of English language.

CO2:Understand the rules for pronunciation of English language.

CO3:Use English language with various structural patterns.

CO4:Understand the fundamentals of the conversation.

CO5: Communicate with people in English.

CO6:Understand the difference between written and spoken form of English.

CO7:Write composition with proper grammatical structures.

S.Y. B.Com.

Compulsory English: English for Entrepreneurs

After successfully completing this course, students will be able to:

CO1:Achieve excellent business communication skills for better enjoyment.

CO2:Be introduced to multi business communication skills.

CO3:Be inspired for enterprise through prose reading.

CO4:Get strengthened for writing skill through grammar.

CO5: Communicate effectively in the area of business and enterprise.

CO6:Understand the difference between business communication and ordinary communication, both in written and spoken form.

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DEPARTMENT OF GEOGRAPHY

Course Outcomes of B.A. Geography

Knowledge outcome:

After completing B.A. Geography Programme students will able to understand:

Knowledge of geographic principles, students will demonstrate a proficiency in knowledge of essential concepts of physical & Human Geography including...

scientific inquiry tools & critical thinking..

Communication skills...

Ethical & social responsibility :

After completing B.A. Geography students will able to :

Semester—I,II,III,IV,V,VI

physical Geography (paper I) :

1). Nature & scope of physical geography. Interior of the earth, Wegener's continental Drift Theory

2). Understand the effect of rotation of revolution earth. 3) understand interior structure of the earth .

3) Study the formation of rocks.

4) know the internal structure of the earth.

Human Geography (paper—II):

1). understand the relationship of man & environment.

2) Studies of races of man kinds.

3) Understand the modes of life of Eskimo, pigmy, gonad, bhil, & nagas .

4) Importance of right to information Acts.

Geography of Land forms (VI) :

1) Concept of landforms & types of landforms.

2) Study of world land distribution& soil formation.

3) Study information land use & geomorphology & Resources.

Regional of Maharashtra (V) :

1). study information size & shape of Maharashtra .

2) Study the climate, drainage & soil distribution Maharashtra.

3) Understand the cropping pattern of Maharashtra.

4). Know the information about industries of Maharashtra State.

Practical (V)

- 1). Understand the history of Cartography.
- 2). Know the various types of showing reliefs
- 3). Acquire knowledge about contours.
- 4). Acquire knowledge about Map reading
- 5). Understand the representation of landforms by cross section method

Climatology (Paper VI)

1. Understand the structure, composition of Atmosphere.
2. Understand weather phenomena Winds, Humidity, Precipitation.
3. Understand heat balance
4. Understand forecasting methods.
5. To understand the process of weather forecasting.
6. Study of Kopens classification

Population Geography (Paper VII)

1. Understand the history of population.
2. Understand the types of data.
3. Study of distribution and density of population.
4. Get knowledge of population theories.
5. Investigate Current Issues and Problems in India.

Oceanography (Paper VIII)

1. Understand importance of Ocean.
2. Knowledge about effect of Ocean Currents.
3. Understand human impacts on Ocean.
4. Study about types of tides.
5. To make aware about judicious use of water.
- 6). Understand Watershed management and water harvesting Structure

Settlement Geography (IX):

- 1) Study of Rural & Urban settlements.
- 2) Settlement structure & field patterns information
- 3) Settlements in India.

Practical (X)

- 1). Introduce the weather map & weather instruments
- 2). Study the cartographic techniques
- 3). Get knowledge about Latitude, Longitude ,direction ,area,& great circle.
- 4). Get knowledge in detail about Map Projection

Physical Geography of India (Paper XI)

1. Knowledge about basic Geographical Personality of India.

2. Understand the variability of Physiography, Climate in India.
3. Study of problems of Soil erosion and there conservation methods.
- 4) Acquire knowledge of Forests in India

Environmental Geography (Paper XII)

1. Understand Structure, Components of Atmosphere.
2. Study about Nutrient cycling.
3. Acquire knowledge about biodiversity.
4. Understand the value of Resource.

. Industrial Geography Maharashtra (XIII) :

- 1).Understand the history of industrial Geography of Maharashtra
- 2).Acquire knowledge about distribution & spatial pattern of industries in Maharashtra.
- 3). Understand the industrial belts of Maharashtra & its characteristic
- 4) .Know the government's industrial policy of Maharashtra

Agricultural Geography (Paper XIV)

1. Examining the introduction to Agriculture, Nature, scope, significance and development of agriculture geography, approach to study.
2. Understand the fundamental concept, land use, crops, agricultural production and envelopment and study the determinant of agricultural activities, physical determinants, and Socio-economic determinants.
3. To understand the agricultural system its meaning and concept, Whittlesey`s classification of agricultural system, types of agricultural, study of the following types of agricultural in respect of area, salient features and there problems.
4. Understand the agricultural regionalization and modes in agricultural geography and their classification of agricultural models and some theories.
5. Understand the agricultural statistics and land use survey techniques and agrarian revolution, meaning and merit and demerit of green revolution and white revolution.

Geography of Natural calamity (XV) :

- 1) Know the nature & scope natural calamities
- 2) Acquire knowledge about World distribution of Earthquake ,volcano & its causes, effects
- 3) Understand the various types of droughts, floods & its causes and effects.
- 4) Study the terms of Global warming, Green house, Ozone deflation,& Pollution

Practical (XVI)

- 1) Understand the representation of statistical data.
- 2) Know the importance of Statistic in Geography.
- 3) Compute of measures of central tendency of dispersion

- 4) Compute the correlation of Pearson's & Spearman's methods .

Bio Geography (XVII) :

- 1). Understand the history of Biogeography
- 2).Acquire the knowledge about environment, habitat, & animal association
- 3).Get knowledge about Plant Geography & Zoogeography

Practical Geography-(main) XVIII:

- 1).Understand the different surveying techniques
- 2).Knowledge about preparation of layout
- 3).Understand the soc-eco condition through survey

Project Work (main) XIX:

On completion of the course students are able to:

- 1). Understand the concept of project & research
- 2).Examining the introduction of research, motivation of research,
- 3) Understand the problems of research work, selection of title, literature review

And all information about research like, introduction, study area, significance, objectives, collection of primary & secondary data, relevant statistical techniques, questionnaire, etc

Program Specific Outcomes on Completion of the B.A. Geography students are able to:

- 1).Serve as a Geographer
- 2).Work as a teacher at high school & Jr .College level
- 3).Serve as conservator in forest, soil, & agriculture department
- 4).Serve as a cartographer in the Land Record & Revenue office of the state government & central government
- 5).Work in NGOs
- 6).Can prepare for competitive exams at level of state & central government

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Department of Hindi

Program Outcomes

I. Program Outcome of Bachelor of Arts (B.A.)

Student seeking admission for B.A. programme is expected to imbue with following quality which helps them in their future life to achieve the expected Goals.

- a. Realization of human values.
- b. Sense of social service.
- c. Responsible and dutiful citizen.
- d. Critical temper
- e. Creative ability.

Program Specific Outcomes B.A. (Hindi)

On completion of B.A (Hindi), Students are able to:

1. To understand the basic concept and subject of Hindi & its origin
2. To make or not the importance of subject Hindi & its Branches.
3. To understand various aspect of Hindi literature with a process to reach method and giving new mode and direction.
4. To make a attempt in different area and theory such as vocabulary and vice versa
5. To understand in the Literature more in a border areas then Mary confined to subject.
6. To know about Hindi literature its roots cause perspectives and methods.
7. Elaborating and understanding its philosophical methods of Hindi Literature.
8. Evaluating the concept of Hindi from past to present and making the society more closely through literature.

Course outcomes

Class: - F.Y.B.A. (Sem. I)

Paper Name:-Optional Hindi (Paper I)

On completion of the course, students are able to

1. To able to understand 'Mahabharata Ki Ek Saanj' by Bharatbhushan Agrawal
2. To able to understand the eassy by Kubernath Roy.
3. To able to understand the stories by Kamaleshwar and Udayprakash.
4. To able to understand the stories by Sudha Arora and Yashpal

Class: - F.Y.B.A. (Sem. II)

Paper Name:-Optional Hindi (Paper II)

On completion of the course, students are able to

1. To able to understand the eassy by Addhyapak Purnasingh.
2. To able to understand the one act play by Jagadishchandra Mathur
3. To able to understand novel by Bhagwaticharan Varma.
4. To able to understand the characters in Chitrlekha Novel

Class: - S.Y.B.A.(Sem. III)

Paper Name:-Prose Reading

On completion of the course, students are able to

1. To able to Understand the meaning, concept and importance of Functional Hindi.
2. To able to understand various forms of Functional Hindi according to its area of application
3. To able to understand the importance of translation
4. To able to understand various forms of writing in media

Class: - S.Y.B.A. (Sem. IV)

Paper Name:-Functional Hindi

On completion of the course, students are able to

1. To able to understand various forms of Functional Hindi language relating to internet.
2. To able to understand use of Functional Hindi language for newspaper, cinema and radio.
3. To able to understand the concept of Right to information.
4. To able to understand the concept of fundamental rights of Indian Constitution.

Class: -T.Y.B.A. (Sem. V)

Paper Name:-History of Hindi literature

On completion of the course, students are able to

1. To able to understand the origin of Hindi language and its literature.
2. To able to understand Identifying the dialects of Hindi language family.
3. To able to Analyse the development of Khariboli Hindi.
4. To able to understand the concept of history of literature.

Class: -T.Y.B.A. (Sem. VI)

Paper Name:-History of Hindi literature

On completion of the course, students are able to

1. To able to understand the basis of the classification of Hindi literature.
2. To able to understand the importance and basis of the names given to each period of Hindi literature.
3. To able to understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.

4. To able to understand the reason of emergence of Adhunikkal in Hindi literature.

Class: -T.Y.B.A. (Sem. V)

Paper Name:-Functional Hindi

On completion of the course, students are able to

1. To able to understand the concept of information technology.
2. To able to use study material from websites of Hindi literature
3. To able to understand the importance and problems of information technology.
4. To able to understand the role of information technology in employment generation.

Class: -T.Y.B.A. (Sem. VI)

Paper Name:-Functional Hindi

On completion of the course, students are able to

1. To able to understand the importance of social media.
2. To able to understand the impact of social media on society.
3. To able to understand the relation between social media and law.
4. To able to understand the problems of social media and their remedies.

Class: -T.Y.B.A. (Sem. V)

Paper Name:- Criticism

On completion of the course, students are able to

1. To able to understand the concepts of linguistic.
2. To able to understand the different flows of Hindi language (Rajbhasha, Bolibhasha)
3. To able to understand the introductory concepts of Hindi grammar.
4. To able to understand the importance of linguistic.

Class: -T.Y.B.A. (Sem. VI)

Paper Name:-Linguistic, Hindi language and Hindi grammar.

On completion of the course, students are able to

1. To able to understand the ancient and medieval period languages.
2. To able to understand the origin and development of Hindi language.
3. To able to understand the different forms of Khadiboli (Hindi, Urdu)
4. To able to understand the introductory concepts of Hindi grammar.

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Department of History

Program outcomes, Program specific outcomes and course outcomes

B.A. Three Year, Semester Bachelor Degree Programme and Regular Programme Curriculum

Course outcome-HISTORY (Honours and General)

We have social history, economic, political and military history, cultural history, history of ideas and mentalities, history of institutions, political bodies and practices.

Students know the Meaning of History and the nations past. Student explains present social practices. Student know about the making of the nations heritage and its preservation and understand the value of diversity and plural cultures.

Some expected Programme Specific Putcomes may be listed as follows:

Each semester are devoted to the study of particular Historical phases. The student may acquire knowledge of the historical events of the Ancient, Medieval, Modern and European history in new aspects. The student may acquire a knowledge of the changing nature of politics or kingdoms of the changing times, and conduct research and write academic Papers in future. The current syllabus provides a student new insights by delving into areas of literature, political ideas, economic planning and cultural forms hitherto not covered. Therefore student not only develop an interdisciplinary perspective, but also find avenues for new researches. Study tours to museums and archaeological sights can enhance the vision of the students and develop skills.

PROGRAMME OUTCOME (po)

The graduating batch of students, both HONOURS and PROGRAM (previously GENERAL) would be eligible for pursuing Postgraduate Courses of studies. The undergraduate batch of students would be able to choose courses as per their interet in the last two semesters. This would definitely encourage academic flexibility. There will be provision for Supplementary Tests to clear up back-logs. This will definitely ass momentum to the teaching, learning and evaluation process. There will be a test in the form of preparation of Dissertation/ Assignment / Term Paper to instill some primary concepts of academic research among the undergraduate students. The CBCS is expected to cater contemporary abd up to date knowledge to the students. The CBCS will enhance the students access to the current job market.

The MCQ and Short Answer Type Question format and the contemporary approach of the syllabus under the CBCS will make the students more equipped to appear at All-India level Competitive Examinations for Banking, Civil and other services.

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Department - Marathi

Program Outcome

- Po 1 :- भाषेमुळे व्यवहारिक ज्ञान वाढले. समाजासाठी त्याचा उपयोग होईल.
- Po 2:- साहित्यवाचनामुळे ज्ञानात भर पडेल. भौगोलिक क्षेत्रातील मानवी जीवनाचा परिचय होईल.
- Po 3:- साहित्य,वाङ्मय, भाषिक ज्ञानामुळे नितीतत्वाचा आविष्कार समाजामध्ये करता येईल.
- Po 4:- भाषिक कौशल्यामुळे समाजात काम करताना प्रभावीपणे संवाद करता येईल.
- Po 5:- विद्यार्थ्यांचे वय, क्षमता विचारात घेऊन व्यक्तिमत्व घडवण्यासाठी साधन सामग्री देणे.

Program Specific Outcomes

- Pso1:- साहित्यामुळे समाज जीवन पद्धतीचे विश्लेषण करता येईल.
- Pso 2:- साहित्य वाचनामुळे संशोधक वृत्तीस चालना मिळेल. समीक्षेचे ज्ञान होईल.

Course Out Comes

मराठी द्वितीय भाषा :- F.y B.A/B.Com B.Sc I Marathi S.L (गद्य पद्य उपयोजित मराठी)

- Co 1 :- मराठीतील जुन्या नव्या लेखकांचा परिचय व्हावा.
- Co 2:- पायाभूत भाषिक कौशल्याचा परिचय होण्यासाठी अभ्यासक्रमातून कौशल्याद्वारे विकास घडवणे.

Co 3:- मराठी भाषा, मराठी साहित्य आणि मराठी संस्कृती यांची विद्यार्थ्यांना ओळख होईल.

B.A I साहित्य, नाट्यात्म साहित्य कथात्म साहित्य, मुद्रित माध्यमासाठी लेखन कौशल्य [पेपर I,II,III,IV]

- Co 1 :- दैनंदिन भाषा वापरताना साहित्यातील भाषेचा वापर करता येईल

Co 2:- विविध साहित्य प्रकाराचा परिचय होईल.

Co 3:- प्रसार माध्यमाद्वारे भाषिक कौशल्ये अंगीकारता येतील.

Co 4:- मराठीतील पारंपारिक आणि आधुनिक भाषिक आविष्काराचा परिचय होईल.

B.A/B.Sc II year गद्यपद्य उपयोजित मराठी (पेपर III, IV)

Co 1:- स्पर्धा परीक्षेची भाषिक ज्ञानाच्या आधारे पायाभरणी करता येईल.

Co 2:- भाषिक साहित्याद्वारे मानवी जीवनमूल्यांचा परिचय करून देता येईल.

Co 3:- विद्यार्थ्यांना अभ्यासक्रमाद्वारे प्रसार माध्यमांची ओळख होईल.

Co 4:- माहिती तंत्रज्ञानाचा परिचय करून देता येईल.

B.A II आधुनिक मराठी वंशमायाचा इतिहास (1800 -1920)

Co 1:- वाङ्मयअभ्यासामुळे विविध लेखकांचा आणि कलाकृतीचा परिचय होईल.

Co 2:- साहित्यातील सामाजिक जीवन समजून घेता येईल.

Co 3:- साहित्यातील विविध प्रकारचे ज्ञान होईल.

Co 4:- मानवी जीवनमुल्ये धारणेसाठी साहित्यातून व्यक्त झालेल्या विचारांचा परिचय होईल.

B.Com II Year मराठी भाषा आणि वाणिज्य व्यवहार :-

Co 1:- दैनंदिन व्यवहारासाठी भाषेचा वापर कसा करावा हे अभ्यासाअंती कळेल.

Co 2:- संवाद साधताना नेमकेपणाने शब्दाचे स्वरूप व्यक्त करता येईल.

Co 3:- विविध कथांचा, कादंबरी अशा साहित्य प्रकाराचा परिचय होईल.

Co 4:- वाणिज्य आणि मराठी भाषेची सांगड अभ्यासातून घालता येईल.

B.A II साहित्याचे माध्यमांतर आणि प्रकारांतर

Co 1:- कलाकृतीचा मूळबंध मोडून नवीन बंध कसा केला जातो याचा परिचय होईल.

Co 2:- माध्यमांतर साठी कलाकृतीची आवश्यकता असते याची जाण येईल.

Co 3:- प्रकारांतरामुळे साहित्य आणि प्रसारमाध्यमांचे स्वरूप कळेल.

Co 4:- यामुळे विविध व्यवसायाच्या संधीचा परिचय होईल.

B.A III भारतीय साहित्य विचार (पेपर IX, XII)

Co 1 :- साहित्य समीक्षेची दृष्टी तयार होईल.

Co 2:- विविध समीक्षक, विचारवंतांच्या भूमिकेचा परिचय होईल.

Co 3:- समीक्षेमुळे आपले मत मांडण्याची तयारी होईल.

Co 4:- साहित्य विषयक घटकांचा परिचय करून देता येईल.

B.A III भाषा विज्ञान व्याकरण व निबंध लेखन (पेपर X, XIV)

Co 1:- भाषा, स्वरांचे उच्चारण, स्वन, प्रयत्न यांचा परिचय होईल.

Co 2:- भाषिक दृष्टीकोन तयार होईल.

Co 3:- भाषेतील प्रतिमा, प्रतीके यांचा वापर करण्याचे तंत्र अवगत होईल.

Co 4:- भाषेचे व्याकरण, भाषिक संरचनेचा परिचय होईल.

मध्ययुगीन मराठी वाङ्मयाचा इतिहास (पेपर XI, XV)

प्रारंभ ते इ.स. 1600 ते 1990)

Co 1:- वाङ्मयाच्या इतिहासाची ओळख होईल.

Co 2:- विविध लेखक, कवींचा परिचय होईल.

Co 3:- कलाकृतीतील वाङ्मयातील प्रवाह विचारात घेण्यास मदत होईल.

Co 4:- कलाकृतीद्वारे भौगोलिक प्रदेशाचे स्वरूप कळेल.

प्रकल्प कार्य (भाग - 1,2)

Co 1:- विद्यार्थ्यांससंशोधन क्षेत्राचा परिचय होईल.

Co 2:- स्वतंत्रपणे लिखाण करण्यास मानसिक तयारी होईल.

Co 3:- संशोधन, प्रबंध लेखनासाठी पूर्वतयारी करता येईल.

Co 4:- समीक्षक दृष्टी तयार होईल.

एम.ए प्रथम वर्ष (श्रेयोकांतर पद्धत)

101- आधुनिक मराठी वाङ्मयाची पार्श्वभूमी पेपर I,V

Co 1:- साहित्य प्रकारांचा परिचय होईल.

Co 2:- विविध कलाकृतींतील मानवी मुल्यांची जाणीव होईल.

Co 3:-साहित्यातील भूमिका निश्चित करता येतील.

102 - साहित्य समीक्षेची मुलतत्वे (पेपर II, VI)

Co 1:- साहित्य समीक्षेचा परिचय होईल.

Co 2:- साहित्यातील समीक्षा प्रवाह आणि समीक्षा जडणघडण जाणून घेता येईल.

Co 3:- समीक्षेतील विविध वादाचा परिचय होईल.

103-भाषिक कौशल्ये, प्रसारमाध्यमे व सूजानशील लेखन/ वाङ्मय प्रकार संकल्पना (पेपर III,VIII)

Co 1:- विविध साहित्य प्रकाराचा परिचय करून देता येईल.

Co 2:- पौरवात्य साहित्य समीक्षकांच्या भूमिका लक्षात येतील.

Co 3:- समीक्षकांच्या पद्धतीचा परिचय करून घेता येईल.

Co 4:- कथा, कविता, कादंबरी अशा साहित्य प्रकाराचा प्रवाह लक्षात येईल.

104 -एका लेखकाचा अभ्यास पेपर क्र. IV, VIII

Co 1:- एका लेखकाच्या संपूर्ण साहित्याची मांडणी करण्याची पद्धत लक्षात येईल.

Co 2:- लेखकाच्या वेगवेगळ्या कला प्रकारचे विश्लेषण करता येईल.

Co 3:- लेखकाचे चरित्र आणि वाङ्मयीन कर्तृत्व यांचे विश्लेषण करता येईल.

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Subject - Physical Education

Program Outcome

- 1) शारीरिक शिक्षण विषयामुळे शारीरिक क्षमता कशा पद्धतीने बलवान करण्यास मदत होते.
त्याचा उपयोग पोलीस, सैनिक, MPC.UPC. या परीक्षेत होऊन नोकरी साठी उपयोग होतो.
- 2) शारीरिक शिक्षणामुळे सामाजिक, मानसीक, बौद्धिक, शारीरिक बल संवर्धन तसेच तंदुष्ट राहण्यास मदत होते.
- 3) शारीरिक शिक्षण विषयामुळे क्रीडा शेतातील विविध अंगाने आभ्यास केल्यास त्यामधून राजकीय, सामाजिक तसेच चांगल्या प्रकारचे नेतृत्व बनवण्यास मदत होते, व व्यसन मुक्त नागरिक बनविले जाते.
- 4) खिलाडू वृत्तीमुळे जय, पराजय सारख्या प्रसंगांना सामोरे जाण्याचे गुण त्याच्या आंगी निर्माण होते तसेच संघटन, प्रशासन, पर्यवेक्षण आधी गुण शारीरिक शिक्षणामुळे अंगीकृत होतात.
- 5) शारीरिक शिक्षणाचे मानवी जीवनातील स्थान अत्यंत महत्वाचे आहे. त त्यामुळे जीवनात दिशा देण्याचा प्रयत्न होतो, तसेच व्यक्तिमत्व विकास साधता येतो.

Course OutCome

B.A 1st Year

पेपर क्र 101 - तत्त्वज्ञान विषयक समाजशास्त्रीय आधार आणि शारीरिक शिक्षणाचा इतिहास :-

उद्दिष्टे - शारीरिक शिक्षणात शिक्षणाच्या तत्त्वज्ञानाचे महत्व समाजशास्त्रीय आधार, पद्धतीचे स्वरूप तसेच 20 व्या शतकातील शारीरिक शिक्षण व प्रचीन ऑलिम्पिक खेळाचा एतिहासिक विकास व आधुनिक ऑलिम्पिक खेळाची सखोल माहिती मिळते.

102 - शारीरिक शिक्षणाची तत्वे व विकास.

उदिष्टे:- क्रीडाशास्त्र, जीवशास्त्र, समाजशास्त्र, मानसशास्त्र, या चार हि शास्त्राचा मुलभूत अभ्यास जिल्हा स्तर, राज्यस्तर, राष्ट्रीय आंतरराष्ट्रीय स्तरावरील आयोजन व विविध खेळातील क्रीडा संघटना.

103 - शारीरिक शिक्षणाचे प्रात्यक्षिक :-

उदिष्टे - गोळाफेक, 100 मी रनिंग, लांबउडी कबड्डी- शारीरिक मानसिक बैधिक विकास होतो.

B.A II Year

Sem III

201 शारीरिक शिक्षण व खेळातील आरोग्य शिक्षण आणि मनोरंजन.

उदिष्टे :- आरोग्य शिक्षण कौटुंबिक आरोग्य शिक्षण शारीरिक शिक्षणातील मनोरंजन आणि विविध क्रीडा स्पर्धा.

202 - शारीरिक शिक्षण आणि क्रीडा शिक्षणातील क्रीडा मार्गदर्शन आणि प्रशिक्षण पद्धती.

उदिष्टे :- विविध खेळातील पंचगिरी मार्गदर्शन व प्रशिक्षण पद्धती.

203 - शारीरिक शिक्षणाचे प्रात्यक्षिक

उदिष्टे :- 200 मी. रनिंग, तिहेरी उडी, हॉली बॉल, थाळी फेक या क्रीडा प्रकारामुळे शारीरिक क्षमता वाढीस उपयोग होतो.

B.A III Year

Sem - V

301 - प्राचीन आणि आधुनिक शारीरिक शिक्षणाचा इतिहास आणि क्रीडा.

उदिष्टे :- प्राचीन भारतातील शारीरिक शिक्षण व आधुनिक भारतातील शारीरिक शिक्षणाचा इतिहास आणि विविध

क्रीडा प्रकाराचा अभ्यास.

302 :- क्रीडा मानसशास्त्र आणि शारीरिक शिक्षणातील व्यवस्थापन क्रीडा क्षेत्रात खेळाडूंचा मानसिक विकास हीच प्रवृत्ती सामाजिक जीवन जगत असताना जीवनामध्ये आलेला तन तणावाचे व्यवस्थानपण करण्यास खूप मदत होते.

303 - Sem – VI संपन्न, प्रशासन, पर्यवेक्षण, युवक कल्याण आणि युवक सेवा.

उदिष्टे - सामाजिक जीवन जगात असताना आपल्या समोर अनेक समस्या उभ्या राहतात. या उलट संघटनेने बनवलेली योजना हि सर्वा मीळून बनवलेली असते व अनेक समस्यांचे निराकरण करूनच ती बनवली जाते म्हणजेच कार्यक्रमांच्या योजना करण्यासाठी संघटनांचा उपयोग केला जाऊ शकतो.

304 - शारीरिक शिक्षणातील शरीररचनाशास्त्र शरीरक्रियाशास्त्र, शारीरिकगतिशास्त्र

उदिष्टे :- 1) स्नायुसंस्था 2) शासनसंस्था 3) शारीरिक गती अशा प्रकारे शरीरातील विविध संस्थेचा अभ्यास

केला जातो.

305 - शारीरिक शिक्षणातील प्रात्यक्षिक

उदिष्टे :- 1) भालाफेक 2) उंच उडी 3) 400 मी. धावणे 4) खो-खो

306- शारीरिक शिक्षणातील प्रात्यक्षिक

उदिष्टे :- 1) 800 मी. धावणे 2) नियमावली 3) योगासने - प्राणायम विविध मैदानी खेळामुळे खेळाडूंचे शारीरिक बैधिक विकास होतो. व त्याचे व्यक्तिमत्वचेही विकास वाढीस लागते.

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Department Of Political Science

Program Outcomes, Program Specific Outcomes and Course Outcomes

B. A. Three Year, Semester Bachelor Degree Programme

and Regular Programme curriculum

From the Academic year 2018-19 semester pattern was introduced. The first batch of student under the newly introduced semester system is, therefore, supposed to complete graduation in the year 2019. It thus appears difficult to measure programme specific outcomes on definite terms. However, our esteemed teachers of the Department of political science have explored rigorously the current syllabus and tried to chalk out some specific outcomes of B.A. three year, six semesters Programme of their own. Such expected outcomes may be listed as follows.

Program outcomes-

1. The semester pattern aims at diminishing the discrimination between honors and regular program courses of study. Under the semester pattern the graduating batch of students, both HONOURS and PROGRAM would be eligible for pursuing Postgraduate Courses of studies.
2. Every Academic Programme under the Semester pattern will take care to make the students familiar with the existing trends in research methodology, and there are some provisions to test in the form of preparation of Dissertation/Assignment/Term Paper to instill some primary concepts of academic research among the undergraduate students.
3. The semester pattern is expected to cater contemporary and up to date knowledge to the students.

Program specific outcomes-

The current syllabus is well chosen of the topics from the whole corpus of political science to represent different events from different angles. They are not only meant to make the students familiar with the dominant events of different trends, but also to open out new perspectives, the student may acquire a knowledge of the changing nature of politics of the changing times.

Course Outcome

The Course outlines of the discipline of Political Science are divergent and contemporary. After careful examination of the courses, the department of political science has pointed out the following outcomes of the common courses which are offered to both honours as well as regular program students as follows-

Semester	Course Name	Expected Course Outcomes
1	Basic Concept of Political Science	Concept of theories of political Science.
2	Indian Govt. and Politics	Concept of theories of during phase of Indian Govt. and politics.
	International relation	Concept of different political relation between India and other nations.
3	Western Political Thought (Ancient and Medieval)	Concept of history of origin of different theories.
	Indian Political Thought	Concept of theories given by Indian thinkers in different ages
	Political Ideologies	Concept of political ideologies
	Govt. and polities of Maharashtra	Concept of theories of different political system.

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Department of Public Administration

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➤ **LEARNING OUTCOMES**

After going through this Unit, you should be able to:

- define Administration and Public Administration
- describe the nature of Public Administration
- explain the scope of Public Administration
- distinguish between Private and Public Administration
- analyse the Role of Public Administration vis-à-vis Liberalisation, Privatisation and Globalisation (LPG)

➤ **INTRODUCTION**

Administration as an activity is as old as society itself. But as an area of study it originated, with the publication of Wilson's essay on study of Administration in 1887. As a process, administration occurs in both public and private organisations. It occurs in such diverse institution as settings as a business firm, labour unions, religious or charitable organisations, educational institutions, etc. Its nature is affected by the sphere with which it is concerned. Administration is commonly divided into two types, Public and Private Administration. As an aspect of government activity it has existed since the emergence of political system(s). While public administration relates to the activities carried out by government, private administration refers to the management of private business enterprises.

➤ **WHAT IS ADMINISTRATION?**

The word 'administer' is derived from the Latin word *administere*, which means to care for or to look after people, to manage affairs. Administration may be defined as "group activity which involves cooperation and coordination for the purpose of achieving desired goals or objectives".

Broadly speaking, the term administration appears to bear at least four different meanings or different senses depending upon the context in which it is used:

1. As a Discipline: The name of a branch of learning or intellectual discipline as taught and studied in colleges and universities.
2. As a Vocation: Type of work/trade or profession/occupation, especially one that involves knowledge and training in a branch of advance learning.
3. As a Process: The sum total of activities undertaken to implement Public Policy or policies to produce some services or goods.
4. As a Synonym for 'word' Executive or Government: Such other body of persons in supreme charge of affairs, for example, Manmohan Singh Administration, Bush Administration, etc.

Noted below are definitions by a few famous writers.

Felix A. Nigro

"Administration is the organisation and use of men and materials to accomplish a purpose".

L.D. White

"The art of administration is the direction, co-ordination and control of many persons to achieve some purpose or objective".

➤ **ADMINISTRATION, ORGANISATION AND MANAGEMENT**

An Organisation is a combination of the necessary human beings, materials, tools, equipment and working space, appurtenances brought together in systematic and effective co-relation to accomplish some desired object.

Management is that which leads guides and directs an organisation for the accomplishment of pre-determined object.

➤ **NATURE OF PUBLIC ADMINISTRATION**

There are two views regarding the Nature of Public Administration, that is, Integral and Managerial.

According to the integral view, 'administration' is the sum total of all the activities – manual, clerical, managerial, etc., which are undertaken to realise the objectives of the organisation. In this view all the acts of officials of the government from the Attendant to the Secretaries to the government and Head of the State constitute Public Administration. Henri Fayol and L.D. White are the supporters of this view.

➤ **SCOPE OF PUBLIC ADMINISTRATION**

By the scope of Public Administration, we mean the major concerns of Public Administration as an activity and as a discipline.

Scope of Public Administration as an activity

Broadly speaking, Public Administration embraces all the activities of the government. Hence as an activity the scope of public administration is no less than the scope of state activity. In the modern welfare state people expect many things – a wide variety of services and protection from the government. In this context public administration provides a number of welfare and social security services to the people. Besides, it has to manage government owned industries and regulate private industries. Public administration covers every area and activity within the ambit public policy. Thus, the scope of public administration is very wide in modern state.

The POSDCoRB view

Several writers have defined the scope of public administration in varying terms. Gullick sums up the scope of the subject by the letters of the word POSDCoRB which denote: Planning, Organisation, Staffing, Directing, Co-ordinating reporting the Budgeting. Planning means the working out in broad outline the things to be done, the methods to be adopted to accomplish the purpose.

➤ **PUBLIC AND PRIVATE ADMINISTRATION**

The major concern of administration is to properly organise men and material for achieving desired ends. As a co-operative group activity, administration is truly universal and operates in all types of public and private organisations. In other words, administration occurs in both public and private institutional settings. Its nature depends upon the nature of the setting and goals with which it is concerned. On the basis of the nature of the institutional setting, public administration can be roughly distinguished from private administration. Public administration is governmental administration concerned with achieving state purposes, determined by the state. Private administration, on the other hand is, concerned with administration of private business organisation and is distinct from public administration. Let us elaborate this

➤ **IMPORTANCE OF PUBLIC ADMINISTRATION**

We will be discussing the importance of public administration as a specialised subject of study and later the role and importance of public administration in the modern society.

Importance of Public Administration as an Activity

The contemporary age, which has witnessed the emergence of 'Administrative State', public administration has become an essential part of society and a dominant factor. The functions it is called upon to perform, have expanded in scope and nature, and what is more, are continually increasing. Many of them are more positive in nature because they care for the essential requirements of human life, be it 18 health, education, recreation, sanitation, social security or others. It is, therefore, a creative factor, with its motto being 'human

welfare'. These functions are over and above its regulatory functions. The view points of eminent scholars, as referred to below, amply reflect the significance of public administration.

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Dept. of Sociology

Program Outcomes

In a recent internal review process, the faculty of the Department of Sociology agreed on the following statement of its mission, goals, and learning outcomes:

The Sociology Department seeks to develop in students the sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues. Through coursework, internships, independent studies and collaborative research with faculty, the Department encourages a commitment to social justice based on an appreciation of social and intellectual diversity and an awareness of social inequality.

The major in sociology is intended to serve as preparation for careers in teaching, delivery and administration of social and health services, urban and environmental studies, law, government service at local, state and federal levels and related occupations. The major also provides training for advanced graduate work in sociology, social work and other social sciences. Sociology is also recommended as a second major or minor for students of all other social sciences; for business; for the humanities; especially literature and theatre arts; for ethnic and area studies; for journalism and other various applied arts and sciences.

Core courses provide students with a solid grounding in the fundamentals of the sociology discipline. Upper division concentrations in Deviance and Social Control; Interaction and Group Relations; Medical Sociology; and Social Change and Global Issues allow students to further focus and develop their understanding of specific fields within sociology.

Outcomes for the Sociology Program

- Students will demonstrate knowledge of core sociological concepts.
- Students will demonstrate knowledge of how to use theory to conceptualize a sociological problem.
- Students will develop an ability to use social scientific research methods to address sociological questions.
- Students will demonstrate the ability to communicate sociological knowledge to others.
- Students will develop the knowledge, skills, and attitudes necessary to be engaged members of the community.

Students will possess analytical skills in areas such as policy analysis, administration/management, communication, quantitative analysis and problem solvin

