

University of Mumbai

Kharepatan Panchkroshi Shikshan Prasarak Mandal, Kharepatan

ARTS, COMMERCE AND SCIENCE COLLEGE, KHAREPATAN

Department of Botany

Programme/ Courses

Undergraduate Programme: Botany

- F. Y. B.Sc.
- S. Y. B.Sc.
- T. Y. B.Sc.

B.Sc. Botany: Programme Outcomes

Specific core discipline knowledge

- Students can recall details and information about the evolution, anatomy, morphology, systematics, genetics, physiology, ecology, and conservation of plants and all other forms of life.
- Students can recall details of the unique ecological and evolutionary features of the local and Indian flora.

Communication skills

- Students can communicate effectively using oral and written communication skills.

Problem solving and research skills

- Students can generate and test hypotheses, make observations, collect data, analyze and interpret results, derive conclusions, and evaluate their significance within a broad scientific context.




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Course Outcomes

Class: F. Y. B.Sc. Botany (Theory)

Semester I

Course (Paper) Name & No.: **Paper I: Plant Diversity I (USBO101)**

CO 1	To gain knowledge about structure, life cycle and systematic position of <i>Nostoc</i> , <i>Spirogyra</i> and understand economic importance of Algae.
CO 2	Understand the structure, life cycle and systematic position of <i>Rhizopus</i> , <i>Aspergillus</i> and learn the economic importance of Fungi.
CO 3	Learn about Modes of nutrition in Fungi.
CO 4	Understand the general characters of Hepaticae
CO 5	Getting knowledge about structure, life cycle and systematic position of <i>Riccia</i> .

Course (Paper) Name & No.: **Paper II: Form & Function I (USBO102)**

CO 1	Understand the structure of plant cell with the reference of cell wall and plasma membrane with the help of bilayer lipid structure and fluid mosaic model.
CO 2	Getting knowledge about structure and function of cell organelles like endoplasmic reticulum, chloroplast.
CO 3	Understand the aquatic and terrestrial ecosystem. Getting knowledge about Energy pyramids and how energy flows in an ecosystem.
CO 4	Learn about Phenotype/ Genotypes and Mendelian Genetics by understanding monohybrid, dihybrid, test cross along with back cross ratios.
CO 5	Getting knowledge about Epistatic and non epistatic interactions with multiple alleles.

Semester II

Course (Paper) Name & No.: **Paper I: Plant Diversity I (USBO201)**

CO 1	Understand the structure, life cycle, systematic position and alternation of generation in <i>Nephrolepis</i> .
CO 2	Getting knowledge about Stellar evolution.
CO 3	Understand the structure, life cycle, systematic position and alternation of generation in <i>Cycas</i> along with economic importance of gymnosperms.




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CO 5	Understand how the color changes due to change in pH: Anthocyanin, Taking tests for tannins and Learn to identify different plants or plant parts from grandma's pouch as per theory.
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(USBOP1) Practical based on Paper II: Form and Functions I

CO 1	Examining various stages of mitosis in root tip cells (<i>Allium</i>), Understand Cell inclusions: Starch grains, Aleurone Layer, Cystolith, Raphides, Sphaeraphides.
CO 2	Identification of cell organelles with the help of photomicrograph: Plastids: Chloroplast, Amyloplast, Endoplasmic Reticulum and Nucleus.
CO 3	Identification of Plants adapted to different environmental conditions: Hydrophytes: Floating, Free floating, Rooted foating, Submerged. Mesophytes, Hygrophytes, Xerophytes, Woody xerophytes, Halophytes
CO 4	Calculation of mean, median, mode, standard deviation. Frequency distribution, graphical representation of data- frequency polygon, histogram, pic chart. And studying the karyotypes: Human: Normal male and female, <i>Allium cepa</i> .

Semester II

(USBOP2) Practical based on Paper I: Plant Diversity I

CO 1	Studying stages in the life cycle of <i>Nephrolepis</i> with mounting of ramentum, hydathode, T.S. of rachis, T.S. of pinna of <i>Nephrolepis</i> passing through sorus.
CO 2	Understand the Different types of steles and stelar evolution with the help of permanent slides.
CO 3	Getting all knowledge about <i>Cycas</i> by taking T.S. of leaflet (<i>Cycas</i> pinna), L.S. of ovule and by showing specimens of Megasporophyll, Microsporophyll, Coralloid root, Microspore of <i>Cycas</i> . Understand Economic importance of Gymnosperms (<i>Pinus</i>).
CO 4	Understand the leaf morphology, Types of inflorescence (as per theory) and study the families Malvaceae, Amaryllidaceae.

(USBOP2) Practical based on Paper II: Form and Functions I

CO 1	Gain knowledge about primary structure of dicot and monocot root as well as dicot and monocot stem.
CO 2	Understand the structure of dicot and monocot stomata.



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CO 3	Understand Cytogenetics by learning about variation in chromosome structure, chromosomal aberrations, sex determination, sex linked, sex influenced, sex limited traits and extranuclear genetics with organelle heredity
CO 4	Learn all about Molecular Biology by understanding DNA replication, DNA replication in prokaryotes and eukaryotes, Protein synthesis.
CO 5	Learn DNA replication (Modes of Replication, Messelson and stahl experiment), DNA replication in prokaryotes and eukaryotes (enzymes involved and molecular mechanism of replication), Protein synthesis (Central dogma of protein synthesis, Transcription in prokaryotes and eukaryotes: promoter sites, initiation, elongation, termination), RNA processing (Adenylation & Capping)

Course (Paper) Name & No.: **Paper III: Current Trends in Plant Sciences I (USBO303)**

CO 1	Know all about Pharmacognosy and Phytochemistry. Learn about Pharmacopoeia, Indian Pharmacopoeia, Indian Herbal Pharmacopoeia, Ayurvedic Pharmacopoeia, Monograph from Pharmacopoeia.
CO 2	Learn about Secondary Metabolites, its sources, properties, uses, adulterants, regional and seasonal variations. Adulterants like <i>Saraca asoca</i> & <i>Polyalthia longifolia</i> , <i>Terminalia arjuna</i> & <i>Terminalia tomentosa</i> , <i>Bacopa monnieri</i> & <i>Centella asiatica</i> , <i>Abrus</i> & <i>Glycyrrhiza</i> , <i>Phyllanthus amarus</i> (Bhuiamla)
CO 3	Learn all about forestry and economic botany, understand outline of types of forest in India, Agro-forestry, Urban forestry, Organic farming, silviculture. Learn types of fibers like jute, cotton. Know current trends in fiber industries. Learn about spices and condiments like Saffron and Cardamom. Know about commercial market of spices.
CO 4	Know all about Industry based on plant products like Introduction of Aromatherapy, uses of jojoba, lemon, jasmine oils. Botanical and nutraceuticals- <i>Spirulina</i> , <i>Vanillin</i> , <i>Garcinia indica</i> <i>Garcinia cambogia</i> , <i>Chlorella</i> , <i>Kale</i> .
CO 5	Learn about Enzyme Industry: Enzymes like Cellulases, papain, Bromelain and all about Biofuels.




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Course (Paper) Name & No.: **Paper III: Current Trends in Plant Sciences I (USBO403)**

CO 1	Learn all about Horticulture and Gardening: Introduction, Branches of Horticulture and Gardening: different locations in garden with names of plants for each category, focal point. Types of garden like Formal & Informal gardens, National Parks like Sanjay Gandhi National Park, Veer Mata Jijabai Udyan (Victoria garden), Botanical garden.
CO 2	Understand Biotechnology. Know about plant tissue culture, introduction, laboratory organization and techniques in plant tissue culture, Totipotency, Organogenesis, Organ culture like root culture, meristem culture, anther and pollen culture, embryo culture.
CO 3	Understand R-DNA technology- Gene cloning, Enzymes involved in Gene cloning, vectors used for gene cloning.
CO 4	Get all information about Biostatistics and Bioinformatics: Understand Biostatistics, learn chi square test, correlation- calculation of coefficient of correlation.
CO 5	Learn about Bioinformatics, introduction, goal, need, scope, limitation. Information technology, its history, tools, internet and its uses. Aims of Bioinformatics, data organization, tools of bioinformatics, tools for web search, data retrieval tools- Entrez, BLAST, Bioinformatics programme in India.

Class: S. Y. B.Sc. Botany (Practical)

Semester III

(USBOP3) Practical based on Paper I: Plant Diversity II

CO 1	Study of stages in the life cycle of <i>Sargassum</i> from fresh/ preserved material & permanent slides. Understand Economic importance and range of thallus in Phaeophyta.
CO 2	Study of stages in the life cycle of <i>Anthoceros</i> and <i>Funaria</i> from fresh/ preserved material & permanent slides.
CO 3	Study of plants for anatomy in relation to taxonomy and chemotaxonomy like Phenols, Flavanoids.
CO 4	Study of one plant from each family prescribed for theory: morphological peculiarities and economic importance of the members of these families.
CO 5	Learn techniques to study plant diversity, Preparation of herbarium and wet preservation technique. Understand chromatography, Learn to separate the amino acids by circular paper chromatography, separate the Carotenoids by TLC, Demonstration of Horizontal and vertical gel electrophoresis.



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Semester V

Course Code: USBOP5: Practical based on two courses in theory (501 & 502)

CO 1	Acquire knowledge of acro micro biota by using different culture media.
CO 2	Ability to identify and classify various stages of Cryptogams and Angiosperms.
CO 3	Gain knowledge about Bentham and Hooker's system of classification.
CO 4	Skills in identification of Plants diseases and control measures.

Course Code: USBOP6: Practical based on two courses in theory (503 & 504)

CO 1	Acquire skill of estimation of iron and phosphorus from plant tissue.
CO 2	Learn techniques, methods of water analysis.
CO 3	Acquire skills in various methods of mushroom cultivation.
CO 4	Understanding the concept of Beer Lambert's Law.

Course Code: USACHO5P1: Practical of Paper V: Horticulture & Gardening I

CO 1	Acquire skills in artificial and natural propagation methods of horticultural plants.
CO 2	Understand the importance of plant nutrients and organic farming.
CO 3	Acquire skills in the field of horticulture.
CO 4	Gain knowledge about identification of plant diseases, pests and their management.

Semester VI

Course Code: USBOP8: Practical based on two courses in theory (601 & 602)

CO 1	Gain knowledge about identification and classification of Bryophytes, Pteridophytes and Gymnosperms.
CO 2	Understand the various stages of Microsporogenesis, Megasporogenesis and embryo development.
CO 3	Acquire the knowledge of economic importance of Bryophytes and Gymnosperms.
CO 4	Ability to differentiate types of Sori and Soral arrangement in Pteridophytes.




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(USBOP4) Practical based on Paper II: Form and Functions II

CO 1	Learn anatomy, Study of normal secondary growth in the stem and root of a Dicotyledonous plant. Types of mechanical tissues, mechanical tissue system in aerial, underground organs.
CO 2	Study of conducting tissues- Xylem and Phloem elements in Gymnosperms and Angiosperms as seen in L.S. and through maceration techniques. Different types of vascular bundles, Growth rings, periderm, lenticels, tyloses, heart wood and sap wood.
CO 3	Understand Plant Physiology and Plant Biochemistry- Q10- germinating seeds using phenol red indicator, NR activity- <i>in-vivo</i> , Estimation of proteins by Lowry's method.
CO 4	Learn about Ecology and Environmental Botany, Study of the working of Ecological instruments like Soil thermometer, Soil testing kit, Soil pH, Wind anemometer. Learn to do mechanical analysis of soil by the sieve method and pH of Soil, Quantitative estimation of organic matter of the soil by Walkley and Blacks Rapid titration method.
CO 5	Study of vegetation by the list quadrant method.

(USBOP4) Practical based on Paper III: Current Trends in Plant Sciences I

CO 1	Learn all about Horticulture, Study about plants for each garden location as prescribed for theory. Preparation of garden plans for formal and informal gardens. Preparation of Bottle and dish gardens.
CO 2	Understand Biotechnology by learning various sterilization techniques, Preparation of Stock solutions and MS medium.
CO 3	Learn about seed sterilization, callus induction, Regeneration of plantlet from callus. Identification of the cloning vectors- pBR322, pUC 18, Ti plasmid.
CO 4	Understand all about Biostatistics and Bioinformatics, Learn Chi square test, Calculation of coefficient of correlation.
CO 5	Learn about Web Search – Google, Entrez. Learn about BLAST



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Course (Paper) Name & No.: **Paper IV: Current Trends in Plant Sciences II (USBO504)**

CO 1	To get exposure to the technique of mushroom cultivation and explore the possibility of entrepreneurship in the same.
CO 2	To learn ethno-botanical principles, applications and utilize indigenous plant knowledge for the cure of common human diseases and improvement of agriculture.
CO 3	To gain knowledge about the latest molecular biology techniques for isolation and characterization of genes.
CO 4	To learn principles and application of commonly used techniques in instrumentation.
CO 5	To gain proficiency in the monograph study and pharmacognostic analysis of six medicinal plants.

Course (Paper) Name & No.: **Paper V: Horticulture & Gardening I (USACHO501)**

CO 1	Explore the importance of horticulture and research institutes in India.
CO 2	Practicing the use of special garden implements.
CO 3	To gain knowledge of propagation methods of horticultural crops.
CO 4	Utilize the green manures and organic fertilizers.

Semester VI

Course (Paper) Name & No.: **Paper I: Plant Diversity III (USBO601)**

CO 1	To identify, describe and study in detail the life cycles of three Bryophytes.
CO 2	To and study in detail classification and general characters of three classes of Pteridophytes and identify as well as describe the life cycles of one example from each class.
CO 3	To study evolutionary aspects and economic utilization of Bryophytes and Pteridophytes.
CO 4	To identify, describe and study in detail the life cycles of three Gymnosperms.

Course (Paper) Name & No.: **Paper II: Plant Diversity IV (USBO602)**

CO 1	To study contribution of Botanical gardens, BSI to Angiosperm study and provide plant description, describe the morphological and reproductive structures of seven families.
CO 2	To gain exposure to a phylogenetic system of classification.
CO 3	To gain insight into the anatomical adaptations of different ecological plant groups.



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Department of Chemistry

Programme Specific Outcomes

- PSO1 The students will have sound understanding of fundamental and application based principles and theories in Physical, Inorganic, Organic and Analytical Chemistry
- PSO2 Students will learn various techniques to perform scientific experiments as well as accurately record and analyse the results of such experiments
- PSO3 Student will learn the usage of analytical instruments, select, and apply appropriate techniques and resources for the analysis
- PSO4 Extensive laboratory and classroom work will skill the students with in problem solving, critical thinking and analytical reasoning as applied to scientific problems
- PSO5 Students will be acquainted with new areas in both chemistry and allied fields of science and technology
- PSO6 Students will understand the applications and impact of the chemistry in societal, and environmental contexts, and demonstrate it's knowledge and need for sustainable development
- PSO7 Students will learn to apply ethical practices such as limited and safe use of hazardous chemicals, responsibility toward environmental and health safety
- PSO8 Students will be able to work in team and thus get prepared as a perfect professional chemist with respect to knowledge, responsibility and teamwork


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Class: S.Y.B. Sc. Chemistry

Semester III

Course (Paper) Name and No.: General Chemistry - I

- CO1 Illustrate the equation of Gibbs free energy, Chemical potential, Transport number and degree of Ionization.
- CO2 Explain different types of ionic crystals and hybridizations.
- CO3 Construct the molecular orbital diagram of homonuclear diatomic molecules.
- CO4 Compare the different properties, reactions and reactivity of alkyl/aryl/halides/ organometallic compounds/alcohol, Phenol and epoxide.

Course (Paper) Name and No.: General Chemistry-II

- CO1 Explain complex chemical reactions, Collision and activated complex theory, effect of temperature on Arrhenius equation, thermodynamics of ideal solutions.
- CO2 Summarize the chemistry of Boron, Silicon and Germanium compounds.
- CO3 Recall the facts and basic concepts like a distillation of solution, Haber process and role of active methylene compounds.
- CO4 Construct the names and methods of preparation of carbonyl group compounds.

Course (Paper) Name and No.: Analytical chemistry III

- CO1 Classify analytical methods and errors in analysis.
- CO2 Outline the methods of calibration of tools used and preparations for titrimetric analysis.
- CO3 Explain the principles of titrimetric analysis and UV-Visible spectroscopy.
- CO4 Apply statistical methods to treat the analytical data.


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Course Outcomes
Class: F.Y.B. Sc. Chemistry
Semester I

Course (Paper) Name and No.: Paper I

- CO1 Recall thermodynamics terms, the first law of thermodynamics and terms like normality, molality.
- CO2 Solve the Numerical problems based on the Concentration of solutions
- CO3 Classify the elements according to electronic configuration and explain details of periodic trends and atomic structure.
- CO4 Explain the name, bonding and structure of organic compounds, bond fission, types of organic reactions and various electronic effects

Course (Paper) Name and No.: Paper II

- CO1 Write projection formulas of given compounds.
- CO2 Outline the metallic and non-metallic nature, oxidation states, electronegativity, Anomalous behavior and allotropy of main group elements.
- CO3 Explain the reactivity of group 1 and group 2 elements and the effects of Oxides of carbon, sulfur and nitrogen on the environment.
- CO4 Explains the rules of integration, and derivatives.

Course (Paper) Name and No.: Practical

- CO 1 Find exact concentration of the solutions and enthalpy of dissolution.
- CO 2 Apply chemical kinetics law to calculate the rate constant of the reaction.
- CO 3 Find the normality of acids and bases and purity of samples gravimetrically.
Apply Thin Layer Chromatographic (TLC), Distillation, Recrystallization, Sublimation
- CO 4 methods for separation of a mixture.


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Semester II

Course (Paper) Name and No.: Paper I

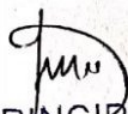
- CO1 Explain deviations from ideal gas laws, Thomson effect and nanotechnology with the experimental setup.
- CO2 Define the equilibrium constant, Le-Chatelier Principle and the second law of thermodynamics.
- CO3 Discuss basic terms of co-ordination chemistry, qualitative analysis and acid-base theories
- CO4 Identify the products of reactions of alkanes, alkenes and alkynes

Course (Paper) Name and No.: Paper II

- CO1 Classify between aromatic, anti-aromatic, and non-aromatic compounds.
- CO2 write the mechanism of the Electrophilic aromatic substitution reaction
- CO3 Identify the shapes of molecules with and without lone pair of electrons and The oxidation number of elements to balance the redox equations.
- CO4 Explain Law of crystallography, Different types of interaction of electromagnetic radiation with matter, Degree of ionization and Henderson equation for acidic and basic buffers.

Course (Paper) Name and No.: Practical

- CO1 Apply chemical kinetics law to calculate the rate constant of reaction.
- CO2 Make use of colorimeter and pH meter
- CO3 Identify cations and anions from the given mixture of compounds and percentage of metal present in the sample by titration.
- CO4 Identify organic compound containing C, H (O) N, S, X elements


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Course (Paper) Name and No.: Practical

- CO1 Determination of various constants such as solubility products, dissociation constant, rate constant based on physical principles.
- CO2 Identify the ions in inorganic salts.
- CO3 Demonstrate the effectiveness of crystallization as a separation technique.
- CO4 Infer the obtained results effectively presentation.


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Practical's

- CO1 Demonstrate the analytical skills in the quantitative analysis of variety of samples
- CO2 Interpret the results of a chemical analysis and effectively communicate in the form of written reports in laboratory journal

Course (Paper) Name and No.: Drugs

- CO1 Define the routes of administration, methods of ingestion, tolerance, withdrawal and interactions of these drugs with other psychoactive and nonpsychoactive drugs.
- CO2 Explain details about the pharmacodynamics agents used for the treatment of different diseases side effects and synthesis.
- CO3 Classify the dyes based on applications and dyeing methods
- CO4 Make use of Unit processes required for the synthesis of dyes intermediates

Practical's

- CO1 Synthesis of simple drugs i.e aspirin
- CO2 Estimation of Ibuprofen.
- CO3 The acid-neutralizing capacity of antacid
- CO4 Project on cotton dyeing

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Semester IV

Course (Paper) Name and No.: General Chemistry I

- CO1 Explain thermodynamics properties, equilibrium constant and different types of electrode.
- CO2 Illustrate Gibb's Phase rule, Phase diagram of one and two component system with examples.
- CO3 List the properties of transition metal compounds and different types of isomers in coordination compounds.
- CO4 Compare properties, acidity, preparations, reactions, the nucleophilicity of acyl substituents of carboxylic acid and stereochemistry.

Course (Paper) Name and No.: General Chemistry-II

- CO1 Explain the law of crystallography, types of crystal, Interplanar distance in the lattice, types of catalysis, Mechanisms and Kinetics of catalyst.
- CO2 Explain the concept of hydration of cations and anions with respect to the effect of charge and radius.
- CO3 Identify the hazardous effect of air pollutants like sulphuric acid, nitric acid and phosphoric acid
- CO8 Outline the synthesis, reaction of amines and heterocyclic compounds like Furan, Pyrrole, Thiophene.

Course (Paper) Name and No.: Analytical chemistry III

- CO1 Classify various separation methods based on their principles.
- CO2 Discuss the principles, construction and working of instrumental techniques based on the electrochemical properties of the analytes.
- CO3 Describe chemical methods of analysis and their suitable parameters.
- CO4 Apply the analytical methods to determine the physicochemical of environmental analysis.

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Course (Paper) Name and No.: Practical

- CO1 Find emf, amount of acid, acid strength potentiometrically.
- CO2 Compare the strength of HCl and H_2SO_4 by kinetically.
- CO3 Calculate the amount from the given sample conductometrically and gravimetrically.
- CO4 Analyze qualitatively bifunctional organic compounds.


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Class: T.Y.B. Sc. Chemistry

Semester V

Course (Paper) Name and No.: Physical Chemistry


- CO1 Select the type of spectrum such as rotational, vibrational, Raman for given molecules using molecular spectroscopy, and make use of data to solve different numericals.
- CO2 Relates the equations of mole fraction and molecular weight of different colligative properties, distinguishing with examples of collision theory and activated complex theory.
- CO3 Explain terms involved in nuclear chemistry and outline detection and measurement of radioactivity using G.M. Counter and Scintillation counter method.
- CO4 Summarize colloidal systems in various classes and use to apply various catalysts in reactions

Practical's

- CO1 Interpret the order of chemical reaction by calculation and graphically and determine molecular weight of polymer using viscosity measurement.
- CO2 Demonstrate practical handling skills based on instruments such as conductometry, colorimetry, potentiometry.

Course (Paper) Name and No.: Inorganic Chemistry

- CO1 Explain concept of Superconductivity, types of superconductors and its applications, imperfections in solids and their effect on properties chemistry of inner transition elements, extraction and applications, chemistry of non-aqueous solvents
- CO2 Compare chemistry of Group 16 elements and Group 17 elements.
- CO3 Assign the point group for given molecules using basic concepts of molecular symmetry and construct molecular orbital diagrams for heteronuclear diatomic molecules and polyatomic species.
- CO4 Determine packing density of different types of cubic unit cells


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Practical's

- CO1 Develop the practical skills for preparation of different inorganic metal complexes
- CO2 Examine the percentage purity of the inorganic compounds qualitatively and quantitatively and impurity identification.

Course (Paper) Name and No.: Organic Chemistry

- CO1 Explain the fate of the excited molecule in photochemistry and systematic study of photochemical reactions.
- CO2 Relate the reactivity and reactions of organometallic, heterocyclic compounds and their synthesis
- CO3 Apply the concepts in writing and predicting the mechanism of organic reactions.
- CO4 Examine the spectral data of UV-Visible, IR, NMR and Mass spectroscopy for structure elucidation of organic compounds.

Practical's

- CO1 Identify chemical type of components present in binary mixture of solid-solid mixture and unknown organic compound by micro-scale technique.
- CO2 Apply skills in the separation and qualitative analysis of organic compounds of solid-solid mixtures by microscale technique.

Course (Paper) Name and No.: Analytical Chemistry

- CO1 Define the quality concepts, chemical standards certified reference materials, various grades of chemicals and sampling methods
- CO2 Contrast solvent and solid phase extraction methods
- CO3 Discuss the principles and instrumentation of different spectroscopic methods
- CO4 Evaluate the various concentrations based on weight and volume and their interconversions.


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Semester VI

Course (Paper) Name and No.: Physical Chemistry

- CO1 Classify chemical and concentration cells with and without transferences
- CO2 Summarize preparation methods and characterization techniques of nanomaterials.
- CO3 Classify polymers in various class and determine the average molecular weight of polymers using various methods
- CO4 Explain physical aspects of NMR spectroscopy in details and classify the systems using phase rules

Practical's

- CO1 Determine molecular weight by Rast method and order of reaction by fractional change method and Explain the adsorption phenomenon and the validity of dsorption isotherm.
- CO2 Demonstrate practical skills based on instruments such as conductometry, pH meter, potentiometry

Course (Paper) Name and No.: Inorganic Chemistry

- CO1 Demonstrate the knowledge of organometallic chemistry, and metallurgy.
- CO2 Explain the chemistry of Group 18 elements, preparation and structures of xenon compounds and biological importance of metal ions.
- CO3 Construct molecular orbital diagram of different coordination compounds, Analyse the electronic spectra of complexes.
- CO4 Measure Crystal field stabilization energy (CFSE) for octahedral complexes using basic concepts of Crystal Field Theory.

Practical's

- CO1 Develop the practical skills for preparation of different inorganic metal complexes
- CO2 Examine the percentage purity of the inorganic compounds qualitatively and quantitively and impurity identification.


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Course (Paper) Name and No.: Organic Chemistry

- CO1 Explain stereoselectivity, stereospecificity, mechanism and stereochemistry of substitution, elimination and addition and rearrangement reactions.
- CO2 Classify polymers and its preparation, functional group transformation and selectivity of reagents and catalyst in organic synthesis.
- CO3 Construct the structures of carbohydrates and its interconversion, describe the structures of proteins, nucleic acids and its components.
- CO4 Interpret the analytical and chemical evidences for structure elucidation of natural products

Practical's

- CO1 Demonstrate the separation of the liquid-liquid and solid-liquid mixtures by fractional distillation.
- CO2 Plan organic synthesis with calculations, stoichiometry, aspects of synthesis and predictions of spectral data in IR and NMR of the reactant and product.

Course (Paper) Name and No.: Analytical Chemistry

- CO1 Illustrate the principles of polarography and amperometric titration
- CO2 Extend the theoretical principles to the range of applications of TGA, DTA and NAA
- CO3 Classify the advanced chromatographic techniques based on mobile phases and stationary phases, modes of separation and their instrumental details and applications in industry
- CO4 Apply the suitable analytical method for food and cosmetic analysis

Practical's

- CO1 Explain the theory behind the separation of ions by ion exchange chromatography and analysis of commercial samples and waste water samples
- CO2 Interpret the measured data after numerical or graphical treatment


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Course (Paper) Name and No.: Drugs

- CO1 Explain details about the chemotherapeutic agents used for the treatment of different diseases side effects and synthesis.
- CO2 Explain drug discovery design and development and drug metabolism and application of nanoparticles in medicinal chemistry.
- CO3 Classify the dyes based on Chemical Constitution and preparations
- CO4 Explain the non-textile uses, Health and Environmental Hazards of the dyes

Practical's

- CO1 Synthesize, Crystallization Physical constant, Apply the o-Methylation step to different phenols
- CO2 Propose the acetylation method of aromatic amines
- CO3 Examine monograph
- CO4 Apply the TLC technique for the separation of the mixture of dyes

Head

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A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg-416703



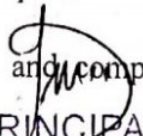
University of Mumbai
Kharepatan Panchakroshi Shikshan Prasarak Mandal, Kharepatan's
ARTS, COMMERCE AND SCIENCE COLLEGE,
KHAREPATAN

•F.Y.B.A. • S.Y.B.A. •T.Y.B.A.

Programme/Courses
Under Graduate programme- **HISTORY**

Programme specific outcomes

- PSO1. Students will be able to learn history of India and Historical personalities
- PSO2. Students will have knowledge of development through the study of social, eco. religious history and other contemporary forms of culture.
- PSO3. Students will be capable of performing research, analysis, and criticism of various events from different movements.
- PSO4. Students will develop intellectual flexibility, creativity and skill.
- PSO5. Students will be able to use the skills acquired to get apprenticeships and initiate into jobs in various fields related to humanities digital or otherwise.
- PSO6. Student will be able to learn a basic narrative of historical events in a specific region of the world.
- PSO7. Student can distinguish primary and secondary sources.
- PSO8. Understand and evaluate historical ideas, arguments, and points of view.
- PSO9. Evaluate competing interpretations and multiple narratives of the past.
- PSO10. Student will be able to assess primary historical evidence and compile a


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bibliography.

PSO11. Student can present clear and compelling arguments, based on critical analysis of diverse historical sources, and effectively communicate his interpretations in written essays and/or other media.

PSO12. To develop a research question and complete a well-supported piece of historical writing

PSO13. Learn a basic narrative of historical events in a specific region of the world in a specific time frame

PSO14. Distinguish between primary and secondary sources

PSO15. Understand and evaluate different historical ideas, various arguments, and points of view.

PSO16. Evaluate competing interpretations and multiple narratives of the past.

PSO17. Gather and assess primary historical evidence.

PSO18. Compile a composite bibliography. Present clear and compelling arguments, based on critical analysis of diverse historical sources

PSO19. Articulate factual and contextual knowledge of specific places and times, to make careful comparisons (across time, space, and culture) and to discern how each generation (including theirs) uses the past for present purposes.

PSO20. Students should understand academic honesty, a concept presented to them in all history classes.

PSO21. Students should understand the basic skills that historians use in research.

PSO22. Students should understand the basic skills that historians use in writing.

PSO23. Students should understand the basic tools of historical analysis.

PSO24. Students should understand the value of diversity.



PSO25. Students should develop a secular outlook towards society.

PSO26. Students should believe in the equality of man irrespective of caste, creed, religion and colour.


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COURSE OUTCOMES

CLASS :F.Y.B.A,

HISTORY

Semester -I

COURSE(PAPER)NAME AND NO.: HISTORY OF MODERN INDIA (1857C.E.-1947C.E.)-I

CO1	The Students aware about first World War of Independence in India and making of India
CO2	The Students enable to comprehend the transition of Indian Nationalism.
CO3	The Students acquainted with Gandhian thought Satya,Ahimsa, and his National Movements
CO4	Understand the events which lead to the growth of Nationalism in India
CO5	Acquaint himself with major events of the freedom struggle under the leadership of Mahatma Gandhi
CO6	Explain the contribution of Revolutionaries, Left Movement and Indian National Army
CO7	Know the concept of Communalism and the causes and effects of the partition of India
CO8	Lerner will understand the contribution of the Moderates, Extremists and revolutionaries in the struggle for India's independence.
CO9	Lerner will also understand the important movements and Acts passed during the period from 1857 to 1947.
CO10	Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.21-FYBA-History-Archeology.pdf


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COURSE OUTCOMES

CLASS :F.Y.B.A,


HISTORY

Semester -II



**COURSE(PAPER)NAME AND NO:-HISTORY OF MODERN INDIA
SOCIETY AND ECONOMY (1857C.E.-1947C.E.)-I**

CO1	In the second semester students will be understand the social evils and efforts made by the social reformers to eradicate them Since Ancient and Medieval times.
CO2	The Students enable to comprehend the Legacy of Western education and their impact.
CO3	The Students acquainted with problems faced by farmers during British rule also good and bad effects of Industrialization.
CO4	The students understand issues of women, Dalit, Peasants and Tribals before independence and after
CO5	Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.21-FYBA-History-Archeology.pdf
CO6	In the second semester learner will able to understand changes or reforms happened at the social, economic and educational fields.


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COURSE OUTCOMES

CLASS :S.Y.B.A.,

HISTORY

Semester -III

COURSE(PAPER)NAME AND NO: -LANDMARKS IN WORLD HISTORY (1800A.D.-1945A.D.)-II

CO1	To enable the students to comprehend the transition of Europe from medieval to modern times and its impact on the world.
CO2	The learners enable to understand the revolutions and their differences.
CO3	The students acquainted with Gandhian thought Satya, Ahimsa, and his movements.
CO4	The learners motivate to understand struggles and importance of world peace and transition of modern world.
CO5	The students will understand the various landmarks in the history of Modern World.
CO6	The students will understand and explain the renaissance and reformation in various fields.

COURSE(PAPER)NAME AND NO: - HISTORY OF ANCIENT INDIA(1000A.D)-III

CO1	Students will learn the Archaeological and Literary sources available for Ancient Indian History.
CO2	Learner will understand the dynasties rose and downfall in Ancient India.
CO3	Learner will understand the importance of Archaeological sources to reconstruct the Ancient Indian history.
CO4	The students aware about sources of writing Ancient India's history
CO5	The learners enable to comprehend the transition of Indian civilization.
CO6	The students understand Ancestors Civilization.
CO7	The learners motivate to realized and understand foreign invasion



Semester -IV

**COURSE(PAPER)NAME AND NO: -LANDMARKS IN WORLD HISTORY
(1300A.D.-1945A.D.)-II**

CO1	The pupils realized and understand significant events and personalities of the period under study.
CO2	The learners enable to comprehend the accurate knowledge of the different ideology .
CO3	The students acquainted with problems faced by world and need of world peace.
CO4	The learners encourage understanding imperialism in Asia and importance of Nationalist movement
CO5	Student will know the importance of American War of Independence, French Revolution and Russian Revolution in the development of Modern Society and State.
CO6	Student will know the causes and effects of the Word War I & II

**COURSE(PAPER)NAME AND NO: - HISTORY OF ANCIENT
INDIA{1000A.D}-III**

CO1	Students shall be able understand the facts, chronology and the scope of Indian History. Enable the students to understand the political, socio-economic and cultural developments in the period under study.
CO2	Learner will understand the dynasties rose and downfall in Ancient India.
CO3	The Students understand Chandragupta Maurya and emperor Ashok and their ideal kingship.
CO4	The students are acquainted with problems faced by the Varden dynasty and how disunity of country became responsible for ARAB invasion of SIND in 712 A.D .
CO5	The students aware about sources of writing Ancient India's history



COURSE OUTCOMES

CLASS :T.Y.B.A.,

HISTORY

Semester -V

COURSE(PAPER)NAME AND NO: -MEDIEVAL INDIA -SULTANATE PERIOD {1000A.D.-1526A.D} -IV

CO1	To enable the students to comprehend the transition of India from medieval to modern times and its impact
CO2	The learners enable to understand the admin of sultanate period and their differences .
CO3	The students acquainted with Rise of new states and their developments, conflict and decline.
CO4	The learners motivate to understand socio, eco developments and religious movements .
CO5	Student got knowledge of Turkish rule in India Students are aware the development of Socio-Economic, administrative and Cultural trends during the period of the Sultan's rule.
CO6	The learners motivate to realized and understand foreign invasion.
CO7	Student got knowledge about History of South India and Deccan region.

COURSE(PAPER)NAME AND NO: -HISTORY OF

MODERNMAHARASHTRA {1818C.E.-1960C.E.} -V

CO1	To enable the students to understand and comprehend the transition of British Rule from end of medieval to modern times and its impact on the India .
CO2	The learners enable to understand the revolutionary socio-economic Movements and their Activities.
CO3	The students acquainted with Gandhian thought Satya, Ahimsa, and his Movements



CO4	The learners motivate to understand struggles and importance of emerging new forces in Modern India.
CO5	Knowledge of Modern Indian History. Knowledge of Freedom Movement in India.
CO6	Development of Nationalism among the student. Awareness about social reforms among the Students.
CO7	Student will eligible for Government service, can attempt competitive exams. E.g. IBPS, SSC, UPSC, MPSC, Railway Recruitment and many others.

COURSE(PAPER)NAME AND NO:- MEDIA AND COMMUNICATION-VI

CO1	The program considers media industries and their relationship to culture and society, and the understanding of how communication works. The program emphasizes the development of critical thinking, professional writing skills and effective Oral Communication.
CO2	The Communication and Media Studies major prepares students for a wide variety of careers in business and industry, advertising, public relations and Journalism, or advanced study.
CO3	This program will equip the learners with professional skills essential for making career in Entertainment industry, Cinema, Television, OTT Platforms, social media platforms etc.
CO4	Students would demonstrate the ability to apply rhetorical principles in a variety of creative, cinematic, organizational, professional and journalistic venues.
CO5	Knowledge, skills, and values that prepare them for future careers in our interconnected society, whether in mass media or advanced study.
CO6	Learners would develop a global awareness of political, social and corporate issues influenced by communication sensitivity and skills..
CO7	Learners will understand mass media as a system of interrelated forces, including historical foundations, technological advances, economic dynamics, regulatory constraints, and ethical concerns.
CO8	This programme will also give them an improved sense of self-confidence and self-efficacy and an awareness of their responsibilities as professionals in their field



CO9	Learners will be able to create and design emerging media products, including Blogs, Digital Audio, Digital Video, Social Media, Digital Photography, and Multimedia.
CO10	They will be better equipped to grasp the complex relationship between communication/media theories and a diverse set of individual, social, and professional practices.
CO11	Learners will understand the underlying philosophical assumptions of, and be able to apply, communication research methods to address a range of media texts and audiences, production and technological practices, and relevant social issues.
CO12	Learners will comprehend the foundations, process, and practices of writing for and about the media, and demonstrate proficiency in writing across platforms.
CO13	Learners will be able to conceptualize, design, and produce one or more works in media based on effective.

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Semester -VI



**COURSE(PAPER)NAME AND NO: -MEDIEVAL INDIA -MUGHAL
PERIOD {1526A.D.-1700A.D} -IV**

CO1	To enable the students to understand and comprehend the transition of Mughal Rule from end of sultanate to Mughal age its impact on the India.
CO2	The learners enable to understand the revolutionary changes in Administration.
CO3	The students acquainted with Shivaji Maharaj thought and his struggle for the establishment of Swaraj.
CO4	The learners motivate to understand changes in Society, religion and trade-Commerce.
CO5	Students aware of the History of Mughal rulers. Nationalism develop among the students by studying rise of Maratha power.
CO6	Students aware about religious tolerance of Mughal Period.

**COURSE(PAPER)NAME AND NO: -HISTORY OF COMTEMPORARY
INDIA {1947C.E.-2000C.E.} -V**

CO1	The pupils realized and understand significant events during Nehru era.
CO2	The learners enable to understand the accurate knowledge of the socio-economic reforms in India.
CO3	The students acquainted with problems faced by India after the death of Indira Gandhi. And they enable to know various political developments taken place since 1984 to 2000.
CO4	The learners encourage to understanding new emerging Trend in India
CO5	Student will eligible for government service, can attempt competitive exams. E.g. IBPS, SSC, UPSC, MPSC, Railway recruitment and many others



COURSE(PAPER)NAME AND NO:- MEDIA AND COMMUNICATION-VI

CO1	The students should get to study Indian cinema through its similarities and differences with both Indian & Western traditions of art and culture.
CO2	The Communication and Media Studies major prepares students for a wide variety of careers in business and industry, advertising, public relations and journalism, or advanced study .
CO3	This program will equip the learners with professional skills essential for making career in Entertainment industry, Cinema, Television, OTT Platforms, social media platforms etc.
CO4	To provide the students with basic understanding of advertising, growth, importance and types.
CO5	To provide the students with basic understanding of advertising, growth, importance and types.
CO6	To understand an effective advertisement campaigns, tools, models etc. To provide students with various advertising trends, and future .
CO7	This Programme will also give them an improved sense of self-confidence and self-efficacy and an awareness of their responsibilities as professionals in their field .
CO8	The teacher must briefly address diverse films in the course of their lecture (Although there are some specific subjects that can deal with films of different types a special session must touch upon Cinema in all its possible forms to encompass from the ordinary Factual Documentary format to the most effective Bumper Breaks/ Advertisements. From the special effects total Sci-fi and Fiction films to the harsh Reality bite films. Even from Promotional Corporate films and travelogues to the most stereotype telecast of Newsreels.

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University of Mumbai
Kharepatan Panchakroshi Shikshan Prasarak Mandal, Kharepatan
ARTS, COMMERCE AND SCIENCE COLLEGE, KHAREPATAN
Programme/Courses

Under Graduate Programme
MARATHI DEPARTMENT

Programme Specific Outcomes

FYBA, SYBA, TYBA.



- PSO : 1 Interest can be analyzed. Literature can be reviewed
- PSO : 2 To impart a broad knowledge of the historical tradition of Marathi literature while beginning the study at a specialized level.
- PSO : 3 To know the motivations, trends behind literature in the background of a particular period.
- PSO : 4 To impart a broad understanding of the evolving tradition of literary forms. Preparation for postgraduate study.
- PSO : 5 To create interest in Marathi scientific literature among students To create scientific awareness among students
- PSO : 6 To further develop the language skills of students in writing, reading, comprehension and communication
- PSO : 7 To make students aware of the interrelationship of different inventions and media of language skills
- PSO : 8 The usage of Marathi in scientific, office, commercial etc
- PSO : 9 To introduce students to terminological terms while giving information.
- PSO : 10 To give information about business sector of Marathi to students of commerce.
- PSO : 11 To explain the nature and need of language practice in various fields.
- PSO : 12 To study Marathi in various fields by clarifying the place of Marathi language in this field and to explain the nature of media and its discourse.
- PSO : 13 Study of different types of writing in media and direct writing.
- PSO : 14 Difficulties in writing Marathi as an official language, techniques and skills of office language, economics and commerce should be effectively presented in Marathi. This requires skills.


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Course Outcomes
MARATHI DEPARTMENT



FY. BA.- SEM I & II

Paper No I –Marathi (Opt)

Paper No II-Marathi (Com)

- CO : 1) The essence can be grasped by analyzing fine literature
- CO : 2) You will learn how to read plays.
- CO : 3) Know how to read poetry.
- CO : 4) You will realize the importance of grammar in writing.
- CO : 5) Know how to present one-act play.

SY. BA.- SEM III :

Paper No II – Kthan Sahity.

- CO : 1) Students studying travel literature in Marathi literature
- CO : 2) The essence can be grasped by analyzing travel literature.
- CO : 3) Knowledge of how to read travelogues.
- CO : 4) Love to read travel descriptions.
- CO : 5) Know how to use grammar in daily life.


Paper No III - Language and dialect studies.

- CO :1) Study of narrative literature in Marathi literatureThe essence can be grasped by analysis.
- CO: 2) Knowledge of how to read a novel while reading a story-novelwill receive.

SY. BA.-SEM IV :

Paper No II – Drama.

- CO :1) Drama and one-act plays will be noticed.
- CO:2) Knowledge of various dialects of Marathi.
- CO :3) Marathi dialect study will get a boost.


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SEM VI : Paper No 5 - Western Literary Thoughts.

CO : 1) Introduction to Western Literary Thoughts.

CO : 2) Consideration of production process and purpose of western literature.

CO : 3) Understand the methods of tasting western literature.

SEM V : Paper No. 6 Literature and Society – Part : I

CO : 1) Introduce the unique relationship between literature and society.

CO : 2) Of metropolitan and rural awareness literature and society.

The interrelationships will be notice.

CO : 3) Various Vadmayin streams based on selected works of Art Will be introduced.

SEM VI : Paper No. 6 Literature and Society – Part : II

CO : 1) Social transition has an effect on Marathi literature Will understand.

CO : 2) Understand the process of production of Dalit literature.

CO :3) There will be feminist awareness and knowledge of vadmayin tendency.


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Paper No III - Marathi Grammar and Writing Skills. (Competitive Exam)

- CO : 1) Language writing skills will be acquired.
CO : 2) Gain Marathi writing skills.
CO : 3) Marathi language will be used for computer.
CO : 4) This course will be useful for passing competitive exams.

**TY. BA.-SEM V : Paper No.4-II History of Medieval Marathi Wadmaya. Part I
(HISTORY OF MARATHI LITERATURE)**

- CO : 1) You will know the history of ancient Marathi Vadmaya
CO : 2) Understand the composition types of ancient Marathi Vadmaya.
CO : 3) There will be pride about Marathi language.

**SEM VI : Paper No.4-II History of Medieval Marathi Wadmaya. Part II
(HISTORY OF MARATHI LITERATURE)**

- CO : 1) Shahiri Vadmaya will be introduced.
CO : 2) Bakhar Vadmaya will be introduced.
CO : 3) The form of Vadmaya of different sects will be noticed.
CO : 4) Introduction to Vadmaya creation by different religions will.
CO : 5) The nature of medieval Vadmaya will be clear.

SEM V : Paper No 5 - Indian Literary Thought.

- CO : 1) Indian literary thought will be introduced.
CO : 2) Understand the process of tasting Indian literature.
CO : 3) The process of production of Indian literature will be introduced.


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Programme Specific Outcomes:-

- साहित्याचे विश्लेषण करता येईल.
- साहित्याची समीक्षा करता येईल
- विशेषस्तरावर अभ्यासाचा प्रारंभ होत असताना, मराठी साहित्याच्या ऐतिहासिक परंपरेचे स्थूल ज्ञान करून देणे.
- विशिष्ट कालखंडाच्या पार्श्वभूमीवर साहित्यामागील प्रेरणा, प्रवृत्तींचे ज्ञान करून देणे.
- साहित्यप्रकारांच्या विकसनशील परंपरेचे स्थूल ज्ञान करून देणे.
- पदव्युत्तर अभ्यास करण्याची पूर्वतयारी करणे.
- विद्यार्थ्यांमध्ये मराठी विज्ञानसाहित्याविषयी आवड निर्माण करणे
- विद्यार्थ्यांमध्ये वैज्ञानिक जाणिवा निर्माण करून देणे
- विद्यार्थ्यांना विज्ञान, उद्योगातील विविध प्रवाह, संधी यांचा परिचय करून देणे
- विद्यार्थ्यांमध्ये लेखन, वाचन, आकलन आणि संभाषण ही भाषिक कौशल्ये अधिकाधिक विकसितकरणे
- भाषिक कौशल्यांचे विविध आविष्कार आणि प्रसारमाध्यमे यांच्या परस्परसंबंधाचे ज्ञानविद्यार्थ्यांना करून देणे
- वैज्ञानिक, कार्यालयीन, व्यावसायिक आदी कामकाजात मराठीच्या होणाऱ्या वापराची
- माहिती देत पारिभाषिक संज्ञांची ओळख विद्यार्थ्यांना करून देणे.
- वाणिज्य विषयाच्या विद्यार्थ्यांना मराठीच्या व्यवहार क्षेत्राची माहिती देणे. विविधक्षेत्रातील भाषा व्यवहाराचे स्वरूप व गरज समजावून देणे.
- या व्यवहारक्षेत्रातील मराठी भाषेचे स्थान स्पष्ट करून विविध क्षेत्रातील मराठीचा अभ्यास करण्यासाठी प्रसारमाध्यमाचे स्वरूप व त्यातील भाषण व्यवहार समजावून देणे.
- प्रसारमाध्यमातील विविधलेखन प्रकारांचा अभ्यास व प्रत्यक्षलेखन.
- राजभाषा म्हणून मराठीचे मराठीतून लेखन करतांना येणाऱ्या अडचणी, कार्यालयीन भाषेची तंत्रे व कौशल्ये, अर्थकारण व वाणिज्य विषय मराठीतून परिणामकारकरित्या मांडता यावा. यासाठी कौशल्यांची आवश्यकता आहे.

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2. Course Outcomes

FYB.SC MATHEMATICS

Semester I

Course USMT 101: Calculus I

1. Learners will get knowledge of properties of real numbers and will have developed proof writing skills of some basic results.
2. Learners will know concepts like neighbourhood, interval, bounded sets etc and inequalities related to real number systems.
3. Learner will get knowledge of sequence of real numbers and its properties and subtypes.
4. Learners will get knowledge of first degree differential equation and will be solve problems on it.

Course USMT 102: Algebra I

1. Learner will be able to experiment with principles of mathematical inductions.
2. Learner will be able to find gcd and lcm of any two non-zero integers by applying different results in connection with lcm and gcd.
3. Learner will get basic knowledge about prime numbers.
4. Learner will be able to use congruences to find remainders and last digits of given integer.
5. Learner will get basic knowledge about functions, equivalence relations and equivalence classes.
6. Learner will know basics of polynomials, finding roots and its multiplicities.

Course USMTP 01: Practicals

1. Problem solving skills of students will be enhanced.
2. Theoretical concepts will be strengthened by solving maximum no. of problems.
3. Due to one-to-one interaction with the teacher, doubts of the students will be cleared.
4. Students will be able to apply mathematical concept or any result to solve problems.


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Semester II

Course USMT 201: Calculus II

1. Learners will get knowledge of limits and continuity, its epsilon-delta definition and related results.
2. Learners will be able to find limit of given function and will be able to check continuity of given function at given point.
3. Learners will get knowledge of differentiability of real valued function and will be able to solve problems on it.
4. Learner will know applications of differentiability of real valued functions like mean value theorem, indeterminate forms etc and will be able to use this knowledge to solve real life problems.

Course USMT 202: Discrete Mathematics

1. Learner will get knowledge about finite sets, infinite sets, countable and uncountable sets.
2. Learner will know basic counting principles, Stirlings number of second kind, Pigeonhole principle and will develop an ability to solve examples.
3. Learner will get knowledge about permutations and combinations of sets, Binomial theorem, multinomial theorem and its applications.
4. Learner will know permutations as functions, cyclic form of it, signature of a permutation.
5. Learner will get basic knowledge about recurrence relations and how to solve homogenous linear recurrence relations.

Course USMTP 02: Practicals

1. Problem solving skills of students will be enhanced.
2. Theoretical concepts will be strengthened by solving maximum no. of problems.
3. Due to one-to-one interaction with the teacher, doubts of the students will be cleared.
4. Students will be able to apply mathematical concept or any result to solve problems.



UNIVERSITY OF MUMBAI

KAREPATAN SHIKSHAN PRASARAK MANDAL KHAREPATANS

ARTS .COMMERCE AND SCIENCE COLLEGE KHAREPATAN

PROGRAMME / COURSE OUTCOMES

Under Graduate Programme – Mathematics

- ❖ F.Y.B.Sc.
- ❖ S.Y.B.Sc.
- ❖ T.Y.B.Sc.

1. Programme Specific Outcomes

- Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study. A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
- Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
- Introduction to various courses like group theory, ring theory, calculus, metric spaces, discrete mathematics.
- Enhancing students' overall development and to equip them with mathematical modeling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment.

PRINCIPAL

Arts, Commerce & Science College, Kharepatan,
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Class: S.Y.B. Sc.

Mathematics

Semester III



Course USMT 301: Calculus III

1. Learners will know concept and related results and problems of infinite series.
2. Learners will get knowledge of Riemann integration and its properties.
3. Learners will get knowledge of applications of integration and will be able to use properties of integrations to solve real life problems.
4. Learners will get knowledge of improper integrals, its types and beta-gamma functions.

Course USMT 302: Linear Algebra I

1. Learner will be able to solve system of linear equations using various techniques.
2. Learner will get knowledge about elementary matrices and its applications.
3. Learner will get basic knowledge about vector spaces, subspaces, linear combination, linear span, linear dependence and independence, basis and dimension.
4. Learner will learn basics of determinants and its properties.
5. Learner will get knowledge about row space, column space, row rank, column rank and some results in connection with it.

Course USMT 303: Ordinary Differential Equations

1. Students will get knowledge of higher order linear differential equations, general solutions and non-homogeneous D.E. and will be able to solve problems on it.
2. Students will be able to find general solutions of homogeneous and non-homogeneous linear differential equations.
3. Students will be able to find solution of initial value problems using various numerical methods.
4. Students will be able to find solution of simultaneous and higher order ordinary differential equation using various numerical methods.

Course USMTP03: Practicals

1. Problem solving skills of students will be enhanced.
2. Theoretical concepts will be strengthened by solving maximum no. of problems.
3. Due to one-to-one interaction with the teacher, doubts of the students will be cleared.
4. Students will be able to apply mathematical concept or any result to solve problems.


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Course USACCS601: Applied Component

1. Students will be introduced to java applets, graphics, font and colour class, AWT package.
2. Students will learn basics of Python programming language, selection statements and loops.
3. Students will get knowledge about Strings, Lists and Dictionaries and basic operations on them. They will also learn to design their own functions in python.
4. Students will also get knowledge about Exception handling in Python. They will also learn how to do mathematics using python such as working with numbers, symbolic maths using sympy, factorizing and expanding, solving equations, plotting graphs etc.

Course USMTP06: Practicals

1. Problem solving skills of students will be enhanced.
2. Theoretical concepts will be strengthened by solving maximum no. of problems.
3. Due to one-to-one interaction with the teacher, doubts of the students will be cleared.
4. Students will be able to apply mathematical concept or any result to solve problems.



Semester IV

Course USMT 401: Multivariable Calculus I

1. Learners will get knowledge of scalar and vector valued functions and basic concepts of calculus like limits, continuity etc.
2. Learners will get knowledge of differentiation of scalar fields and related results.
3. Learners will get knowledge of differentiation of vector fields and its applications in Mathematics.

Course USMT 402: Linear Algebra II

1. Learner will know basics of Linear Transformations, Nullity, Rank, Rank-Nullity theorem, Matrix associated with linear maps and some results in connection with it.
2. Learner will get knowledge about inner product spaces, angle between vectors, Orthogonal basis, orthonormal basis, orthogonal projection and orthogonal complement.
3. Learner will be able to find eigenvalues and eigenvectors of a matrix. He/She will be able to check whether the matrix is diagonalizable/orthogonally diagonalizable or not.
4. Learner will get knowledge about basics of quadratic forms, classification of conic sections and how one can reduce quadratic forms to standard forms.

Course USMT 403A: Numerical Methods

1. Students will get knowledge of errors and types of errors.
2. Students will be able to solve algebraic and transcendental equations using various iterative methods.
3. Students will get knowledge of Lagrange's Interpolation, finite difference operators and its derivations.
4. Students will be able to find the value of integration using numerical methods.
5. Students will be able to solve system of linear equations using iterative methods.
6. Students will be able to find eigen values and eigen vectors using Rutishauser and Jacobi's method.

Course USMTP04: Practicals

1. Problem solving skills of students will be enhanced.
2. Theoretical concepts will be strengthened by solving maximum no. of problems.
3. Due to one-to-one interaction with the teacher, doubts of the students will be cleared.
4. Students will be able to apply mathematical concept or any result to solve problems.

T. Y. B. Sc.



Course USMT 501: Multivariable Calculus II

1. Students will get knowledge of basic concepts, tools and techniques of integral calculus and will be able to use them to solve problems from real-life applications including science and engineering problems involving areas, volumes, centroid, Moments of mass and center of mass Moments of inertia.
2. Learners will be able to examine vector fields and will be able to define and evaluate line integrals using the Fundamental Theorem of Line Integrals and Green's Theorem and can compute arc length.

Course USMT 502: Group Theory

1. Students will have a working knowledge of important mathematical concepts in abstract algebra such as definition of a group, subgroups, order of an element with emphasis on problem solving.
2. Students will get knowledge about cosets, normal subgroups, group homomorphisms, external direct products and some results in connection with them.
3. Students will know about cyclic groups, cyclic subgroups, generators of cyclic groups some properties and results in connection. They will also learn characterization of cyclic groups.

Course USMT 503: Topology of Metric Space

1. Students will get full knowledge of basic concepts of metric spaces. It extends the ideas of open sets, closed sets and concepts such as compactness and complete Metric space.
2. Students will be able to think logically and will be able to prove or disprove any statement logically.

Course USMT 504: Graph Theory

1. Students will get knowledge of graphs and its various types.
2. Students will get knowledge of trees, its types and its applications.
3. Students will get knowledge of Eulerian and Hamiltonian graphs with their properties.

Course USACCS501: Applied Component

1. Students will get practical knowledge about database management system.
2. Students will learn SQL commands and functions for database management as well as they will get basic knowledge in PL/SQL.
3. Students will be get basic introduction in java programming in which they will learn java basics, what is class in java, creating objects, arrays and access controls.
4. Students will also get knowledge about inheritance in java, exception handling and packages.


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Course USMTP05: Practicals



1. Problem solving skills of students will be enhanced.
2. Theoretical concepts will be strengthened by solving maximum no. of problems.
3. Due to one-to-one interaction with the teacher, doubts of the students will be cleared.
4. Students will be able to apply mathematical concept or any result to solve problems.

Semester VI



Course USMT 601: Basic Complex Analysis

1. Students will be able to analyse sequences and series of analytic functions and types of convergence.
2. Students will also be able to evaluate complex contour integrals directly and by the fundamental theorems,
3. Students will be able to evaluate complex integration by applying the Cauchy integral theorem in its various versions, and the Cauchy integral formula.
4. Students will also be able to represent functions as Taylor, power and Laurent series, classify singularities and poles, and will be able to find residues and evaluate complex integrals using the residue theorem.

Course USMT 602: Ring Theory

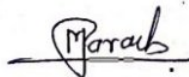
1. Students will get working knowledge about rings, subrings, units in ring, characteristic of rings.
2. Students will learn important mathematical concept such as integral domains, fields, ideals, quotient rings, prime ideals, maximal ideals, homomorphism and isomorphism of rings.
3. Students will also learn mathematical concepts such as Euclidean domain, PID, Divisibility in rings, polynomial rings, irreducible and prime elements, UFD.
4. Students will also understand the connection and transition between previously studied mathematics and more advanced mathematics.

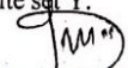
Course USMT 603: Topology of Metric Spaces and Real Analysis

1. Students will get knowledge of continuous functions and will be able to check whether the given function is continuous or not.
2. Students will get knowledge of connected metric space and will be able check whether the given set is connected or not in a given metric spaces.
3. Students will get knowledge of convergence concepts of sequences and series of functions, power series. The treatment of this course will enable the learner to explain their reasoning about analysis with clarity and rigour.

Course USMT 6C4: Graph Theory and Combinatorics

1. Students will get knowledge of graph coloring, vertex and edge chromatic number. Students will be able to find chromatic polynomials of graphs.
2. Students will get knowledge of planar graphs, planarity of some special graphs and related theorems.
3. Students will get knowledge of directed graphs, networks, flow and cuts in a network, Ford-Fulkerson algorithm and will be able to solve problems related to it.
4. Students will get knowledge of Inclusion-Exclusion principle with applications, Rook polynomial, recurrence relations and generating functions and students will be able to find system of distinct representatives of a family of subsets of finite set Y .




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University of Mumbai
Kharepatan Panchakroshi Shikshan Prasarak Mandal, Kharepatan's
ARTS, COMMERCE AND SCIENCE COLLEGE, KHAREPATAN

Programme/Courses

Under Graduate programme- Zoology

- F.Y.B.Sc.
- S.Y.B.Sc.

Programme specific outcomes

PSO1: Gain the comprehensive knowledge and understanding of major concepts, theoretical principles and experimental findings in Zoology and its different subfields.

PSO2: Learn a wide range of approaches, from genetics to molecular and cellular biology, as well as physiological processes and anatomy, and diseases.

PSO3: Spread awareness about wildlife and ecology as well as the environment and its conservation in the society.

PSO4: Gain knowledge of Agro based Small Scale industries like sericulture, aquaculture and vermicomposting.

PSO5: Develop the interest and employability, program includes learning experiences which offer opportunities for higher studies and research at reputed laboratories.

PSO6: Understand the concept of research and its type along with basic knowledge of qualitative research techniques, data collection and process of scientific documentation.

PSO7: Analyse the ethical aspects of research and evaluate the different methods of scientific writing and reporting by appropriate documentations and presentations.


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Course Outcomes

Class: F.Y.B. Sc. Zoology

Semester I

Course (Paper) Name and No.: Kingdom Animalia, Wonders of Animal World, Biodiversity and its Conservation

CO1	Curiosity will be ignited in the mind of learners, to know more about the fascinating world of animals which would enhance their interest and love for the subject of Zoology.
CO2	Learner would come to know about basic of systematic and the hierarchy in invertebrates. Learner would have knowledge about different phyla with their respective examples.
CO3	Learners would appreciate treasure of Biodiversity, its importance and hence would contribute their best for its conservation

Course (Paper) Name and No.: Laboratory safety units and measurement, Instrumentation and Animal biotechnology

CO1	Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and understanding of economy in use of materials/chemicals during practical sessions.
CO2	Learner would be able to select and operate suitable instruments for the studies of different components of Zoology. Further learner would be skilled in the area of research.
CO3	Learner would understand the recent advances in the subject, its applications for the betterment of mankind; and that the young minds would be tuned to think out of the box


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Semester II

Course (Paper) Name and No.: Laboratory safety units and measurement, Instrumentation and Animal biotechnology

CO1	This lesson explores the classification system used to identify animals. This unit is specifically designed to move quickly beyond the knowledge level to high-level thinking.
CO2	Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being.
CO3	Learners would be inspired to choose career options in the field of wild life conservation, research, photography and ecotourism.

Course (Paper) Name and No.: Laboratory safety units and measurement, Instrumentation and Animal biotechnology

CO1	Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits.
CO2	Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases


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Class: S.Y.B. Sc. Zoology

Semester III

Course (Paper) Name and No.: Fundamentals of Genetics, Chromosomes and Heredity, Nucleic acids

CO1	Learner shall comprehend and apply the principles of inheritance to study heredity. Learner will understand the concept of multiple alleles, linkage and crossing over
CO2	Learner will comprehend the structure of chromosomes and its types. Learner shall understand the mechanisms of sex determination. Learner would be able to correlate the disorders linked to a particular sex chromosome.
CO3	Learner will understand the importance of nucleic acids as genetic material. The learner shall comprehend and appreciate the regulation of gene expressions.

Course (Paper) Name and No.: Study of Nutrition and Excretion, Respiration and circulation, Control and coordination, Locomotion and Reproduction

CO1	Learner would understand the increasing complexity of nutritional, excretory and osmoregulatory physiology in evolutionary hierarchy.
CO2	Learner would be able to
CO3	Learner would understand the increasing complexity of respiratory and
CO4	Learner would be able to correlate the habit
CO5	Learner would understand the process of control and coordination by nervous and endocrine regulation.
CO6	Learner would be fascinated by various locomotory structures found in the animal kingdom.
CO7	Learner would be acquainted with various reproductive strategies present in animals.

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Course (Paper) Name and No.: Ethology, Parasitology, Economic Zoology

CO1	Learners would gain an insight into different types of animal behavior and their role in biological adaptations. Learners would be sensitized to the feelings instrumental in social behavior.
CO2	Learners would understand the general epidemiological aspects of parasites that affect humans and apply simple preventive measures for the same. Learners would comprehend the life cycle of specific parasites, the symptoms of the disease and its treatment
CO3	Learners would gain knowledge on animals useful to mankind and the means to make the most of it. Learners would learn the modern techniques in animal husbandry. Learners would be pursuing entrepreneurship as careers

Semester IV

Course (Paper) Name and No.: Origin and Evolution of Life, Population and Evolutionary Genetics, Scientific Attitude, Methodology, Scientific Writing and Ethics in Scientific Research

CO1	Learner will gain insight about origin of life. Learner will ponder and critically view the different theories of evolution.
CO2	Learner would understand the forces that cause evolutionary changes in natural populations. Learner would comprehend the mechanisms of speciation. Learner will be able to distinguish between microevolution, macroevolution and megaevolution.
CO3	The learner shall develop qualities such as critical thinking and analysis.
CO4	The learner will imbibe the skills of scientific communication and he/she will understand the ethical aspects of research.


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Course (Paper) Name and No.: Cell biology, endomembrane system and biomolecule

CO1	Learner would acquire insight of transport mechanisms for the maintenance and composition of cell.
CO2	Learner would appreciate the intricacy of endomembrane system. Learner would understand the interlinking of endomembrane system for functioning of cell
CO3	The learner will realize the importance of biomolecules and their clinical significance

Course (Paper) Name and No.: Comparative Embryology, Aspects of Human Reproduction, Pollution and its effect on organisms

CO1	Learner will be able to understand and compare the different pre- embryonic stages
CO2	Learner will be able to appreciate the functional aspects of extra embryonic membranes and classify the different types of placentae.
CO3	Learners will able to understand human reproductive physiology.
CO4	Learners will become familiar with advances in ART and related ethical issues
CO5	The learners will be sensitized about the adverse effects of pollution and measures to control it

Head

Department of Zoology
Arts, Commerce and Science College, Kharepatan

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A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg-416703



DEPARTMENT OF GEOGRAPHY

PROGRAMME OUTCOME

B.A. in Geography

By the end of the Programme a student should develop the ability to:

1. Understand, coherently and effectively about various genres of Geography.
2. Understanding the diverse concepts in the field of Geography.
3. Understand global and regional patterns of cultural, political and economic institutions, and their effects on exploitation of natural resources and landscapes.
4. Understand need for protection and conservation of natural resources.
3. Develop basic skills in practical Geography and its industrial applications.

COURSE OUTCOMES

Semester: - I - F.Y.B.A. Geography

Revised Syllabus w.e.f. Academic Year, 2022-2023

(CBSGS) Course Outcomes:

PAPER NO. I – HUMAN GEOGRAPHY(UAR2GE1)

By the end of the course, a student should develop the ability to:

1. Understand comprehensibly the nature, scope, approaches, branches and concepts in Human Geography
2. Understanding the concept, types and patterns of rural and urban settlements.
3. Understand the determinants on growth, distribution and problems of population.
4. Understand the concept, causes, types, trends and consequences of migration.
5. Able to construct and interpret of line graphs and flow diagrams and other techniques.


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Arts Commerce & Science College, Kharepatan
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Semester: - I - F.Y.B. Com. Environmental Studies



Course Outcomes:

PAPER NO. 1 - ENVIRONMENTAL STUDIES (UCM1EVS)

By the end of the course, a student should develop the ability to:

1. Understand comprehensibly the concept of environment and ecosystem.
2. Understanding the natural resources and need and measures for sustainable development.
3. Understand the population and emerging issues of development
4. Understand the urbanization and environment.
5. Read the thematic maps and fill the world map.

Semester: - II - F.Y.B.A. Geography

Course Outcomes:

PAPER NO. 1 - ENVIRONMENTAL GEOGRAPHY (UAR6GE2)

By the end of the course, a student should develop the ability to:

1. Understand the nature, scope, importance and man-environment relationship in Environmental Geography
2. Understand the Structure, functions and types of ecosystem.
3. Understand environmental problems there Cause, Effect and Remedies.
4. Acquire knowledge about biodiversity and its importance and Management.
5. Understand the concept, types, distribution and hotspots of biodiversity

Semester: - II - F.Y.B. Com. Environmental Studies

Course Outcomes:

PAPER NO. 1 - ENVIRONMENTAL STUDIES (UCM2EVS)

By the end of the course, a student should develop the ability to:

1. Understand the solid waste management and role of society in solid waste management.
2. Understanding the environmental problems associated with agriculture and sustainable agricultural practices.
3. Understand the Tourism potentials and challenges before India.
4. Understand the environmental movements and environmental management in India.
5. Able to fill the environmentally significant features in Mumbai and Konkan region map.


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Semester: - III - S.Y.B.A. Geography
Revised Syllabus w.e.f. Academic Year, 2022-2023



(CBSGS)Course Outcomes:

PAPER NO. II – GEOGRAPHY OF MAHARASHTRA (UAR3GE2)

By the end of the course, a student should develop the ability to:

1. Understand the location, Physiography, Rives and Climate in Maharashtra
 2. Understand the Soil, Forest, Minerals and Energy Resources in Maharashtra
 3. Understand the Agriculture, Fishing and Livestock Resources in Maharashtra
 4. Understand the Industrial, Transportation and Communication Sector of Maharashtra.
- Understand the Map Filling of Maharashtra and Construction of map

PAPER NO. III – AGRICULTURAL GEOGRAPHY (UAR3GE3)

By the end of the course, a student should develop the ability to:

1. Understand the Introduction to Agriculture, Nature, Scope, Origin, Major Gene Centers, Diffusion and change, in Agriculture.
2. Understand the Determinants of Agriculture.
3. Study of Types of Agriculture and Distribution.
4. Understand the Agriculture Problems and Sustainability of Agriculture
5. Map Filling and Construction of Statistical Diagrams and Graphs.

Semester: - IV- S.Y.B.A. Geography

Revised Syllabus w.e.f. Academic Year, 2022-2023

(CBSGS)Course Outcomes:

PAPER NO. II – Geography of India (UAR4GE2)

By the end of the course, a student should develop the ability to:

1. Understand the location, Physiography, Rives and Climate in India .
2. Understand the Soil, Vegetation and, Minerals Resources in India.
3. Understand the Agriculture, Livestock and Fishing Resources in India.
4. Understand the Energy Resources Industries, Transport and Trade.
5. Map Filling and Thematic Map Reading.

PAPER NO. III – GEOGRAPHY OF TOURISM (UAR4GE3)

By the end of the course, a student should develop the ability to:

1. Understand the Introduction, nature, scope, importance significance importance of Tourism geography.
2. Understand the Tourism Infrastructure and Travel Agency.
3. Understand the Tourism Planning Impacts and Sustainability .
4. Understand the Tourism in India with Special Reference to Maharashtra .
5. Map Filling and Thematic maps Reading.


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Semester: - V- T.Y.B.A. Geography
Revised Syllabus w.e.f. Academic Year, 2022-2023



(CBSGS) Course Outcomes:

PAPER NO. IV - GEOGRAPHY OF SETTLEMENTS (UAR5GE4)

By the end of the course, a student should develop the ability to:

1. Understand the nature and scope of Settlement Geography and the characteristics of rural and urban settlements.
2. Understand the structure of house and building materials, regional variations of rural settlement in India.
3. Understand the history of world settlements and factors responsible for world settlements.
4. Understand the classification and morphology, pattern and nature and process of rural and urban settlements
5. Understand the process of urbanization, urban problems and smart cities in India.

PAPER NO. V-A - GEOGRAPHY OF MAHARASHTRA (UAR5GE5)

By the end of the course, a student should develop the ability to:

5. Understand the location, administrative setup and geographical personality of Maharashtra
6. Understand the drainage and climate in Maharashtra
7. Understand the natural and human resources of Maharashtra
8. Understand the agriculture, fishing and livestock resources in Maharashtra.
9. Understand the growth and development of industries, trade and transport in Maharashtra

PAPER NO. VI - TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-I (Practical) (UAR5GE6)

By the end of the course, a student should develop the ability to:

1. Understand the basic concept and types map projections.
2. Understand the Basic elements of map and able to area calculation.
3. Able to read and interpret of topographical maps.
4. Able to use the computer with basic Microsoft and SPSS software's.
5. Able to prepare the thematic maps by using different techniques.


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Arts, Commerce & Science College, Kharepatan
Tal. Kankavli, Dist. Sindhudurg

Semester:-VI- T.Y.B.A. Geography

Revised Syllabus w.e.f. Academic Year, 2022-2023

(CBSGS)Course Outcomes:

PAPER NO. IV - ENVIRONMENTAL GEOGRAPHY (UAR6GE4)

By the end of the course, a student should develop the ability to:

6. Understand the nature, scope, importance and man-environment relationship in Environmental Geography
7. Understand the Structure, functions and types of ecosystem.
8. Acquire knowledge about biodiversity and its importance and Management.
9. Understand the concept, types, distribution and hotspots of biodiversity
10. Understand environmental problems there Cause, Effect and Remedies.
11. Understand the Sustainable Development and Environmental Management methods in India.

PAPER NO. V-A – GEOGRAPHY OF TOURISM and RECREATION(UAR6GE5)

By the end of the course, a student should develop the ability to:

1. Understand about nature, scope, development and factors of tourism development
2. Understand about infrastructure and ancillary services for tourism
3. They understand about types and impacts of tourism.
4. Understand Planning and organization about tourism
5. Understand the potential of tourism sectors in Maharashtra and India
6. Know about national tourism policy.

PAPER NO. VI – TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-II (Practical) (UAR6GE6)

By the end of the course, a student should develop the ability to:

1. Understand the Meaning and types of data and its presentation.
2. Understand and able to solve the examples of measures of central tendency, dispersion and deviation and correlation, regression and hypothesis testing.
3. Able to collect and analysis of data sampling.
4. Able to collect the field data, its processing and writing of research report.



Head

Department of Geography
Arts Commerce and Science College, Kharepatan



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Arts Commerce & Science College Kharepatan,
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University of Mumbai
Kharepatan Panchakroshi Shikashan Prasark Mandal
ARTS, COMMERCE , SCIENCE COLLEGE , KHAREPATAN

F.Y.B.A ,S.Y.B.A, T.Y.B.A

Programme/ Courses
Under Graduate Programme- ECONOMICS

Programme Specific Outcomes

- PSO1 Students will able to understand the basic concepts of economics.
- PSO2 Students will learn the application of different concepts of economics in practical field.
- PSO3 Students will able to appear in different fields of economics.
- PSO4 Students can participate in various examinations linked to economics.


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Arts Commerce & Science College, Kharepatan
A.p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg

Course Outcomes

SEMESTER I



A. Economics

Course (Paper) Name and No.: UAR1EC1 Micro Economics

- CO1 Understand basic theories of micro economics.
- CO2 Define ten principles of economics
- CO3 Calculate the market demand and market supply.
- CO4 Analyse the consumer's behaviour with the help of indifference curve.


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SEMESTER II

A. Economics

Course (Paper) Name and No.: UAR2EC1 Micro Economics

- CO1 Understand basic theories of micro economics.
- CO2 Define ten principle of economics
- CO3 Calculate the market demand and market supply.
- CO4 Analyse the consumer's behaviour with the help of indifference curve.


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SEMESTER III



A. Economics

Course (Paper) Name and No.: (Economics) Public Finance

- CO1 Find out the public Finance and Private
- CO2 Compare Budget and Taxation
- CO3 Distinguish between public Expenditure and debt
- CO4 Interpret the Indian Public Finance

Course (Paper) Name and No.: (Economics) Demography

- CO1 Show the nature of Indian Population
- CO2 Relate the theories of population
- CO3 Assess the sources of demographic data in India
- CO4 Choose the appropriate methods of calculation

Course (Paper) Name and No.: (Economics) Macro Economics

- CO1 Define the concepts of Macro Economics and National Income
- CO2 Interpret the theories of consumption and investment
- CO3 Distinguish between supply of money and demand for money
- CO4 Compare the banking structure in India


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SEMESTER IV

A. Economics

Course (Paper) Name and No.: (Economics) Indian Economy

- CO1 Define the various concepts of Indian economy
- CO2 Explain the agriculture policies.
- CO3 Identify the various programmes for Industrial Development
- CO4 Examine the role and nature of service sector in India
- CO5 Define the various concepts of Indian economy

Course (Paper) Name and No.: (Economics) Demography

- CO1 Explain the concept of fertility, Nuptiality, Mortality and Life Table
- CO2 Choose the theories of Migration
- CO3 Examine urbanization and problems of urbanization in India
- CO4 Evaluate the population Policy

Course (Paper) Name and No.: (Economics) Macro Economics

- CO1 Find the inflation in Indian economy
- CO2 Relate the monetary and fiscal policy in India
- CO3 utilize post Keynesian Theories of Economics
- CO4 Examine the relationship between domestic economy and External sectors


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SEMESTER V

A. Economics

Course (Paper) Name and No.: Micro Economics -IV

- CO1 Learners understand the monopoly situation.
- CO2 Learners are able to discriminate how the monopoly and oligopoly.
- CO3 Learners are studied the equilibrium concept and social welfare of the people.
- CO4 Learners are studied the Nash equilibrium

Course (Paper) Name and No.: Economics of Development -V

- CO1 Learners will get familiar with concepts of growth and development.
- CO2 Learners will able to understand the role of factors of development.
- CO3 Learners will study effects of poverty, inequality on development.
- CO4 Learners will think about sustainable development

Course (Paper) Name and No.: Economics of Agriculture and cooperation -VI

- CO1 To get the role of agriculture in economic development.
- CO2 To know the institutional and non-institutional sources of credit and micro finance.
- CO3 To recognize the importance of marketing in agriculture.
- Co4 To understand various agriculture price and policy


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SEMESTER VI

A. Economics

Course (Paper) Name and No.: Macro Economics - IV

CO1 To study the goods market and the open economy.

CO2 To study the financial market.

CO3 To study the exchange rate crisis.

CO4 To study the international monetary situation

Course (Paper) Name and No.: International Economics - V

CO1 Learners are studied the importance of international economics.

CO2 Learners are studied the various modern theories of international trade.

CO3 Learners are learned how trade is an engine of economic growth.


CO4 Learners understand the trade policy and regionalism

Course (Paper) Name and No.: Economics of Agriculture and cooperation -VI

CO1 To understand the important feature of co-operation.

CO2 To get need, structure and progress of co-operative finance.

CO3 To know the role and types of co-operative agro


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University of Mumbai
Kharepatan Panchakroshi Shikshan Prasarak Mandal's
ARTS, COMMERCE AND SCIENCE COLLEGE, KHAREPATAN


F.Y.B.A, S.Y.B.A, T.Y.B.A
Under Graduate Programme – POLITICAL SCIENCE

Programme Specific Outcomes:-

- PSO1:- Knowledge of Constitution of India, Political Process in India.
- PSO2 :- Knowledge of political Concepts.
- PSO3 :- Knowledge about political and administrative system of the State and Nation.
- PSO4 :- Study of national and international political affairs.
- PSO5 :- Students aware about competitive examination.
- PSO6 :- Understanding the government mechanism, its functions, duties and responsibilities and Citizen rights and duties.
- PSO7:- Job Opportunities available in Civil Services, Media, Law and other Sectors.

Course Outcomes:-

Sr.No.	Class	Paper No	Sem	Course Name	Outcomes
I	FYBA	Paper No. I	Sem I	Indian Constitutional Framework	Students acquaint about the important features of the Constitution of India and basic framework of Indian Government Students understand the process in the working of the Constitution of India, functions of the Government, awareness about Citizens rights and duties
			Sem II	Indian Political Process	Students Understand Political Process in India.


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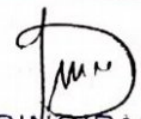


Sr.No.	Class	Paper No	Sem	Course Name	Outcomes
					Understand the changes and the new trends in Indian Politics. important issues in contemporary Indian Politics. Knowing about the problems and challenges in Indian politics.
		Paper No. II	Sem III	Principles & Concepts of Political Theory	Understand the basic concepts of Political Theory
			Sem IV	Political Values and Ideologies	Understand the basic concepts. Value and ideologies in Political Science acquaint the students with the contemporary debates across the ideologies
2	SYBA	Paper No. III	Sem III	Public Administration	Students understand the discipline. Important Concept of Public Administration Students sanitize on the changing concerns of Public Administration Students acquaint with concept of governance and its increasing significance in the era of Globalization
			Sem IV	Indian Administration	Students know the administrative system of the nation. Students aware of various issues related to the institutional behavior of Indian Administration Students understanding


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Sr.No.	Class	Paper No	Sem	Course Name	Outcomes
					mechanism for the solution of problems in Indian Administration
		Paper No. IV	Sem V	World Politics	Students help to identify and conceptualize the Major issues in the International Relations Students help to identify the major national/international actors engaged in dealing with these issues at various levels in international Politics
			Sem VI	India in World Politics	Understand to the Nature and emerging trends of India's Foreign Policy. Students acquaint with the domestic and international security concerns Understand of the relations of India with neighboring countries and major powers in the world
3	TYBA	Paper No. V	Sem V	Western Political Thought	understand the major phases in the evolution of western political tradition - enlighten tradition, Liberal tradition, and Marxist tradition and contemporary tradition Comparative study of the after 15th Centuries thoughts and modern thoughts.
			Sem VI	Indian Political Thoughts	Understand the Political Ideas, views and concerns of leading Indian thinkers



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Sr.No. Class Paper No

Sem	Course Name	Outcomes
		Understand the deciphering of the diverse and often contesting ways in which the ideas of nationalism, democracy and social transformations were discussed in pre and post-independence India, their need for modern society
Sem V	Political Process in Modern Maharashtra	Student familiarize with the historical basic information, analytical framework the formation of Maharashtra State
Sem VI	Determinants of Politics of Maharashtra	Students understand the changes and the new trends in Maharashtra Politics Understand important issues in Current Maharashtra Politics.

Paper No.
VI

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UNIVERSITY OF MUMBAI
KAREPATAN SHIKSHAN PRASARAK MANDAL KHAREPATAN
ARTS , COMMERCE AND SCIENCE COLLEGE KHAREPATAN



Under Graduate Programme – Physics

- F.Y.B.Sc.
- S.Y.B.Sc.

1. Programme Specific Outcomes

- It will develop analytical abilities among students towards real world problems
- The students are expected to familiarize with current and recent scientific and technological developments.
- It will induce the programming skills for C++ and microprocessors among students.
- With hands on experiments, students can correlate their theory with practical's.
- Students will be exposed to various measuring devices, equipment's, sensors, transducers and their daily applications.
- It will develop scientific temper among students and they can pursue their research interest in the relevant fields such as, radiology, tele communication, space science, nuclear physics, electronics, solid state physics, thermodynamics, cryogenics, geophysics, relativity etc.
- With proper knowledge of electrical components, they are expected to build basic electrical circuits.
- The error analysis may develop scientific approach skills and accuracy among the students.


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Department of Physics

Course Outcomes

Class: F.Y.B. Sc. Physics :

Semester I



Course (Paper) Name and No.: Classical Physics, Physics 1

- CO1 Understand Newton's laws and apply them in calculations of the motion of simple systems.
- CO2 Use the free body diagrams to analyse the forces on the object.
- CO3 Understand the basic mathematical concepts and applications of them in physical situations
- CO4 Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process
- CO5 Understand the elasticity and fluid dynamics concepts and its applications in practical life

Course (Paper) Name and No.:

Modern Physics , Physics 2

- CO1 Learners will get detailed knowledge about the discovery of the nucleus and learn all the properties of the nucleus.
- CO2 Learners will understand the phenomenon of Radioactivity, Radioactive elements, laws of Radioactive Decay and their applications to various fields of science.
- CO3 Learners will understand various kinds of Nuclear Reactions, Various laws related to Nuclear Reactions and how Nuclear Energy is produced.
- CO4 Learners will understand the Principles, Construction and Working of various types of Nuclear Detectors.
- CO5 Learners will understand the response of Resistor, Capacitor and Inductor to an Alternating Current (AC)
- CO6 Learners will understand various kinds of AC Bridges and their Operation.


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Course Name and No.: Practicals



- CO1 Learners will get hands-on training on various measuring devices such as Digital Multimeter, Vernier Caliper, Micrometer Screw Gauge, Travelling Microscope and other such devices.
- CO2 Learners will understand various methods for finding different mechanical properties of Solids like the Moment of Inertia, Modulus of Elasticity and the Young's Modulus.
- CO3 Learners will understand various methods for finding different mechanical properties of liquids like the Coefficient of Viscosity, Surface Tension & Angle of Contact.
- CO4 Learners will understand the Thermoelectric Characteristics of Thermistor and be able use it as a temperature sensor.
- CO5 Learners will understand the proper way of connecting various electrical components like Resistors, Inductors, Capacitors, Voltmeter, Ammeter, etc in different types of circuits.
- CO6 Learners will practically understand the response of Resistor, Capacitor and Inductance to an Alternating Current. Also the learners will get Hands-On Training for handling such electrical components.

**Class: F.Y.B. Sc.
Physics : Semester II**



Course (Paper) Name and No.: Optics, Physics 1

- CO1 Able to explain natural physical processes related to light waves
- CO2 Use of understanding application of basic differential equation in various circuits
- CO3 Able to differentiate the transverse and spherical waves
- CO4 Able to apply superposition principle for various harmonic oscillations
- CO5 Able to differentiate the different aberrations of light and understands the various methods to eliminate it

Course (Paper) Name and No.:

**Modern Physics, DC Circuits & Digital Electronics, Electrostatics,
Magnetostatics, Geophysics, Physics 2**

- CO1 After the completion of the course learners will get knowledge about Quantum Physics, Geophysics, and Electrodynamics
- CO2 This course will also develop the skills among the learners to handle D.C. circuits and Digital Circuits
- CO3 Learners will be able to do the circuit analysis using various network theorems.
- CO4 Learners will understand the concept of Electrostatic field in detail.
- CO5 Learners will understand the concept of Magnetic fields in detail.


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**Class: S.Y.B. Sc.
Physics: Semester III**



Course (Paper) Name and No.: Mechanics & Thermodynamics, Physics-1

- CO1 Learners will understand the Laws of Conservation Linear Momentum, Angular Momentum & Energy and be able to apply the laws to study the Dynamics of System of Particles.
- CO2 Learners will be able to understand the Simple Harmonic Oscillations of Simple Pendulum & Compound Pendulum and write their equations.
- CO3 Learners will understand the Simple Harmonic Motion and the effect of Damping forces on such motions and equation of motion related to particles performing Damped Simple Harmonic Motion.
- CO4 Learners will understand the Forced Damped Simple Harmonic Motion and Resonance.
- CO5 Learners will understand various Laws of Thermodynamics and their implications in daily life.
- CO6 Learners will understand various Thermodynamic Processes and various Thermodynamic Cycles (P-V graph).
- CO7 Learners will understand the Construction & Working of different types of Heat Engines and the Thermodynamical Processes inside the heat engines.

Course (Paper) Name and No.: Vector Calculus, Analog Electronics, Physics 2

- CO1 Understand learners the basic concepts of Mathematical physics and their applications in physical situations
- CO2 Understand the basics of transistor biasing, Op-Amp and their applications
- CO3 Understand different types of oscillator and find its frequency.
- CO4 Evaluate line and surface integrals


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Class: S.Y.B. Sc.
Physics :Semester IV



Course (Paper) Name and No.: Optics and Digital Electronics, Physics-I

- CO1 Learners will understand various natural phenomenon related to light like Interference, Diffraction, Polarization, etc.
- CO2 Learners will understand the Phenomenon of Interference in details.
- CO3 Learners will understand the Principle, Construction and Working Michelson's Interferometer & Febry-Perot Interferometer.
- CO4 Learners will be able to differentiate between the Fresnel & Fraunhofer class of Diffraction.
- CO5 Learners will understand Fresnel and Fraunhofer class of Diffraction at various obstacles or slits.
- CO6 Learners will understand the phenomenon of Polarization in details and various ways of Polarizing the Light and the applications of Polarized light in daily life.

Course (Paper) Name and No.:

Quantum Physics , Physics 2

- CO1 Able to understand the postulate of Quantum Mechanics
- CO2 Use of Quantum Mechanics , its relevance in explaining significant phenomena in Physics
- CO3 Gained knowledge about basic non-relativistic quantum mechanics, the time-dependent and time-independent Schrödinger equation for simple potentials like for instance the harmonic oscillator and hydrogen like atoms
- CO4 Solve the time-independent Schrodinger equation as an intermediate step to solve the time-dependent Schrodinger equation.
- CO5 apply boundary conditions to constraint the set of possible states.
- CO6 Find the transmission and reflection coefficients for one-dimensional barriers.

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Kharepatan Panchkroshi Shikshan Prasarak Mandal's

**ARTS, COMMERCE AND SCIENCE COLLEGE,
KHAREPATAN**

Tal- Kankavli. Dist-Sindhudurg



(Affiliated to the University of Mumbai)

**PROGRAMME OUTCOMES,
PROGRAMME SPECIFIC OUTCOMES
AND COURSE OUTCOMES**

The college is affiliated to the University of Mumbai thus, it follows the Curriculum framed by the Board of Studies, University of Mumbai

BACHELOR OF COMMERCE PROGRAMME OUTCOMES



PO1	Know the primary functions of the business and key business terms which shall offer conceptual clarity of the programme chosen for higher studies
PO2	Learn the entire process of setting up of a business unit as well as managing the business activity, covering strategic aspects of business management such as accountancy, economics, environment, documentation and record
PO3	Be able to enhance both soft and hard skills in order to meet the challenges of the vocation
PO4	Get an opportunity to study multidimensional aspects of business and commerce including advertising, business communication, costing, marketing research etc which impact the organic growth of business
PO5	Be able to identify and choose appropriate field for personal career growth at the end of six semesters
PO6	Be sufficiently equipped with the knowledge of contemporary trends in business and commerce in 21st century


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Arts, Commerce and Science College, Kharepatan

BACHELOR OF COMMERCE PROGRAMME OUTCOMES



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BACHELOR OF COMMERCE

PROGRAMME SPECIFIC OUTCOMES



PSO1	The students will be able to understand the basic concepts of Final Accounts of Manufacturing Concern, Partnership Firms, Limited Liability Partnership and Private Limited Companies.
PSO2	The students will be able to understand the concepts of Departmental Accounting, Hire Purchase Accounting, Consignment Accounting, Branch Accounting, Single Entry, Fire Insurance Claim, Piecemeal Distribution of Cash, Amalgamation of Firms, Conversion of Partnership Firms into Limited Company, Redemption of Preference Shares and Debentures, Treatment of Profit Prior to Incorporation, Personal Investment Accounting, Accounting of transactions involving Foreign currency, statement of underwriters liability.
PSO3	The students will be able to Understand the basics of Auditing
PSO4	The students will be able to understand the basics of Management Accounting including Financial Statement Analysis, Ratio Analysis, Pricing, Budgetary Control, Cost Allocation and performance evaluation.
PSO5	The students will be able to understand the basic concepts related to Companies, its Final Accounts, Internal Reconstruction, Buy back of Shares, Amalgamation, Absorption and External Reconstruction and liquidation of company.
PSO6	The students will be able to understand the basic concepts of Cost accounting including Material, Labour and Overhead Costing.
PSO7	The students will be able to Understand cost recording systems and different types of costing viz. Contract costing, process costing, standard costing and marginal costing,
PSO8	The students will be able to Understand the basic concepts of Income Tax and Goods and Service Tax


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BACHELOR OF COMMERCE COURSE OUTCOMES

F.Y.B.Com.

SEMESTER I

Accountancy & Financial Management-I



CO1	Understand the accounting standards, its compliances, standardization processes of different accounting policies and practices followed by different business concerns.
CO2	Calculate closing stock and prepare stock ledger as per perpetual inventory system.
CO3	Calculate departmental profit or loss by allocating expenses and income.
CO4	Demonstrate an understanding of accounting procedures related to accounting for hire purchase.
CO5	Prepare financial records for a manufacturing organization
CO6	Classify the nature of transactions as capital or revenue

SEMESTER II

Accountancy & Financial Management-II

CO1	Solve problems based on treatment of transactions related to conversion of single-entry system into double entry system.
CO2	Explain the concepts related to Consignment and account the same.
CO3	Demonstrate an understanding of the conceptual framework of branch accounts and accounting of the same.
CO4	Understand the concept of fire insurance claim and ascertain the claim on the basis of fire insurance policy.

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SEMESTER I
Business Economics-I



CO1	Understand the fundamentals of economic theory & their applications to business practice.
CO2	Case studies on Demand, Elasticity of demand, Cost & profit & Demand Forecasting will develop & sharpen the interpretative, analytical & problem - solving skills of the students.
CO3	The theories of production & consumption will assist the students in drawing estimations & making future predictions of their economic behavior.

SEMESTER II
Business Economics -II

CO1	Comprehend and identify the economic variables in general business atmosphere.
CO2	Identify, classify & compare the various market structures – Perfect Competition, Monopoly, Monopolistic Competition & Oligopoly as per principles of taxonomy.
CO3	Case studies on market structures, capital budgeting, pricing practices will develop explicatory, logical & problem- solving skills of the students.
CO4	Demonstrate an understanding of the overall role and importance of the finance function.


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SEMESTER I
Foundation Course -I



CO1	Explain and Differentiate the multi-cultural diversity of Indian society through its demographic composition, regional differences, regional variations, diversity as difference and disparity as inequality.
CO2	Classify Social Stratification and Discuss about Gender Disparity, Women Related Problems, Physical and Mental Disabilities and Implement Measures to Curb the Stated Issues.
CO3	Identify the inter-group conflicts, relate the consequences and use the measures to solve such conflicts.
CO4	Discuss about the Indian Constitution and interpret the same.
CO5	Define and describe the Significant Aspects of Political Processes

SEMESTER II
Foundation Course-II

CO1	Define globalization and analyses its impact on the Indian Society.
CO2	Discuss about Human Rights and fundamental rights in India.
CO3	Explain the importance of environment and sustainable Development.
CO4	Locate the causes of stress and conflict and outline the measures for stress management


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S.Y.B.Com.

SEMESTER III

Advertising-I



CO1	Analyze Integrated Marketing Communication and learn various classification of Advertising.
CO2	Evaluate Economic and Social Aspects of Advertising.
CO3	Understand the basics of Advertising Agency and its functioning.
CO4	Effectively use Advertising for Brand Building of Product or Services.

SEMESTER IV

Advertising -II

CO1	Analyse and learn various options of Traditional and New age Media.
CO2	Design and plan Advertising Campaign.
CO3	Execute and Evaluate Advertising creatively.
CO4	Effectively use Fundamentals of Creativity for preparing Advertisement.


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SEMESTER I
Mathematical and Statistical Techniques-I



CO1	Understand basic concepts of mutual funds and shares and calculate rate of return on investments, number of shares and its face value along with brokerage.
CO2	Demonstrate counting techniques like permutations and combinations to efficiently solve problems
CO3	sketch the graphs of linear equations and identify the feasibility region and solve various examples
CO4	Solve problems related to measurements of central tendency, frequency distributions and measures of dispersion and sketch the graphs.
CO5	Understand and solve problems involving simple probability and discrete probability distributions.
CO6	Understand the concept of decision theory and use it to solve problems on Maxmin, Maxmax, Minimax regret, Laplace criteria, EMV, EOL and decision tree.

SEMESTER II
Mathematical and Statistical Techniques -II

CO1	Understand the concept and use it to solve simple problems involving economic functions.
CO2	Understand concepts of simple interest, compound interest and annuity and solve problems relating to the same.
CO3	Understand the correlation and regression analysis and apply the same to solve problems
CO4	Calculate trend values for a time series using Moving Averages, trend line, Least Squares methods and estimate Seasonal Components for a time series.

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SEMESTER I
Commerce-I



CO1	Understand the framework of Business and Business Environment.
CO2	Draft Business Plan of new Business Projects.
CO3	Analyse and conduct feasibility study for Business Project
CO4	Understand the concept of Entrepreneurship and examine the Incentives to Entrepreneurs in India.

SEMESTER II
Commerce-II

CO1	Understand the framework of Services.
CO2	Understand the Recent trends in Retail Sector
CO3	Analyze and select various career options in Retailing.
CO4	Understand the concept of E-commerce and its current status.


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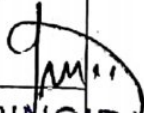
SEMESTER I
Business Communication-I



CO1	Explain basic concepts in Business Communication
CO2	Identify and recognise the complexities and dynamics of the process of Communication at the workplace, the channels, methods, barriers of communication
CO3	Articulate the need and importance of Business Ethics, Personal Integrity and /corporate social Responsibility.
CO4	Examine and explain the processes and methods of cultivating good Listening Skills.
CO5	Draft short paragraphs and structured personnel letters - letter of recommendation, job application letter & letter of appointment, statement of purpose and resume in a structured manner.

SEMESTER II
Business Communication -II

CO1	Identify and Explain basic concepts involved in Group Communication and Public relations.
CO2	Interpret and articulate the complexities and dynamics of group discussions, interviews, conferences, meetings and Public Relations.
CO3	Draft structured formal Business letters – letters of inquiry, letters of complaints, claims, adjustments, sales letters, promotional leaflets and fliers, consumer grievance redressal letters, letters under Right to Information (RTI) Act, business proposals and reports
CO4	Prepare a summary of given write ups.


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SEMESTER I
Environmental Studies -I



CO1	Understand and evaluate the concepts of the ecosystem
CO2	Explain and classify concepts related to natural resources and sustainable development.
CO3	Discuss issues related to population, urbanization and its impact on development.
CO4	Read, recall and fill in thematic world maps.

SEMESTER II
Environmental Studies -II

CO1	Understand the sustainable method, classification of solid waste management.
CO2	Discuss on effect of agriculture and industry on environment and adopting sustainable Agricultural & Industrial practices
CO3	Understand the Tourism Policy of India, and consequences on the economy, culture and Ecology
CO4	Understand various Environmental Movement and applications of Geospatial Technology in Environmental Management.
CO5	Apply map reading skill for Mumbai and Konkan regional map.


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SEMESTER III
Introduction to Management Accounting



CO1	Understand and explain the concepts, methods and techniques of management accounting.
CO2	Compare, analyse and interpret the financial statements to help in managerial decision making and control.
CO3	Calculate Ratios related to financial statements and also requirement of working capital.
CO4	Analyse and recommend projects using the methods of capital budgeting.

SEMESTER IV
Auditing

CO1	Understand and explain the concepts, objectives and Principle of Auditing, Circumstances Indicating Errors and Frauds and Types of Audit.
CO2	Understand and describe Audit Planning, Procedures & Documentation.
CO3	Demonstrate an understanding of Audit Techniques and Internal Audit.
CO4	Understand and explain the Process of Vouching and Verification of various accounting documents of business organizations.


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SEMESTER III
Accountancy & Financial Management-III



CO1	Understand the process of amalgamation of partnership firms and prepare the related accounts.
CO2	Demonstrate the accounting procedures of conversion /sale of partnership firm into a limited company.
CO3	Understand the procedure and prepare the statement of piecemeal distribution of cash.
CO4	Understand and prepare the statements of final accounts of partnership firms along with admission of a new partner and retirement & death of an existing partner.

SEMESTER IV
Accountancy & Financial Management -IV

CO1	Explain the basic concepts and principles of Company Accounts. (Understand)
CO2	Demonstrate an understanding of concepts and legal provisions of redemption of preference shares and pass the necessary journal entries with the balance sheet after redemption. (Demonstrate)
CO3	Explain debentures and its types along with preparation of journal entries related to redemption of debentures.
CO4	Demonstrate an understanding of the accounting treatment of profits prior to incorporation.


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SEMESTER III
Commerce-III



CO1	Understand the framework of Functions of management
CO2	Analyze and understand the concept of M.B.O and M.I.S
CO3	Understand the framework of Organizing and organization structure.
CO4	Understand the concept of Controlling and examine the techniques of controlling.

SEMESTER IV
Commerce-IV

CO1	Understand the framework of production management, inventory management
CO2	Understanding the basics of Indian Financial System
CO3	Learn and understand IPO, Dematerialization process
CO4	Analyze and learn various sources of financial investments.


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SEMESTER III
Business Law-I



CO1	Understand and explain the basic concepts of The Indian Contract Act along with case laws.
CO2	Understand the applications of validity of Contracts.
CO3	Describe Special Contracts like Bailment, Indemnity, Pledge, etc.
CO4	Explain the concepts and provisions under the Sale of Goods Act and differentiate between sale and agreement to sale.
CO5	Discuss the various provisions related to The Negotiable Instrument Act and rules related to Bills of Exchange, Promissory Note and Cheque.

SEMESTER IV
Business Law-II

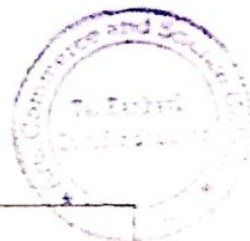
CO1	Explains the basic concepts and Provisions under Company Law in respect of Incorporation and Dissolution of Companies and compare the related terms.
CO2	Describe the provisions related to various meetings and provisions related to appointment of directors under The Companies Act.
CO3	Describe and compare the various provisions under The Partnership and The Limited Liability Partnership Act.
CO4	Understand and explain various concept under Consumer Protection Act and Competition Act and functioning of Dispute Redressal Mechanism under the Act.
CO5	Understand and discuss the concept of Intellectual Property Rights and various provisions in respect of procedures of obtainment and infringement of IPR.

M. S.
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SEMESTER III
Business Economics-III



CO1	Explain various macroeconomic concepts.
CO2	Discuss the theories of money, prices and inflation with the help of diagrams.
CO3	Describe the concepts related to Keynesian theories like multiplier, consumption function, etc.
CO4	Explain and illustrate with diagrams the concepts related to post Keynesian developments in macroeconomics.

SEMESTER IV
Business Economics -IV

CO1	Explain basic concepts and theories of public finance with the help of diagrams and the role of government in the same. (Level: Understand)
CO2	Describe the taxation theories, types, system and related concepts.
CO3	Discuss the issues related to public debt, public expenditure and its management.
CO4	Understand the concept of fiscal policy and its importance in shaping the economy.


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SEMESTER III
Foundation Course-III



CO1	Understand the nature of Human Rights violations and vulnerable groups.
CO2	Analyze the extent of deprivation faced by Children, women and minorities.
CO3	Evaluate the Constitutional provisions and laws protecting elders and disabled.
CO4	Recall incidents of Disaster and impact on human life.
CO5	Appraise issues addressing of compensation, relief and rehabilitation.
CO6	Develop understanding for Effective Interpersonal Communication skills.
CO7	Evaluation of learner by assignments/project work.

SEMESTER IV
Foundation Course-IV

CO1	Create Awareness about Consumer Right & Right of Citizen.
CO2	Understand the need Right to information amp; PIL Landmark Cases.
CO3	Reviewing Concept of good Governance, Transparency & Accountability.
CO4	To create sensitivity about ecology, Human & Nature centered.
CO5	To give information about modern Technology. Features & Application.
CO6	Develop strong Foundation for personality for better Human being.
CO7	Evaluation of learner by assignment/Project work.

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T.Y.B.Com.
SEMESTER V
Business Economics-V



CO1	Explain the impact of the New Economic Policy and the different policy measures for Sustainable Development and Foreign Investment.
CO2	Discuss the role of agriculture and the problems associated with this sector.
CO3	Explain the recent trends, role and growth of the Secondary and Tertiary sector.
CO4	Explain about the Structure, Growth and Reforms in financial markets.

SEMESTER VI
Business Economics -VI

CO1	Explain the theories and concepts of international trade.
CO2	Analyze the international trade policies and trade blocks.
CO3	Demonstrate a thorough understanding of concepts and components balance of payments.
CO4	Discuss WTO and its Agreements.
CO5	Explain the working of foreign exchange market and the role of RBI in foreign exchange management.


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SEMESTER V

Financial Accounting & Auditing-VII (Financial Accounting)



CO1	Understand relevant provisions and prepare the financial statements as per Companies Act, 2013.
CO2	Demonstrate an understanding of concept, legal procedure and methods of Internal Reconstruction of a Company and its accounting.
CO3	Demonstrate an understanding of the legal provisions of Buy Back of Shares as per Company's Act, 2013 and accounting of the same.
CO4	Express their understanding of Accounting of Investments based on fixed and flexible income bearing securities.
CO5	To understand ethical behaviour and its implication for accountants

SEMESTER VI

Financial Accounting & Auditing-IX (Financial Accounting)

CO1	Understand the concepts of merger and purchase with corresponding accounting treatment of pooling of interests and purchase method respectively along with computation of purchase consideration.
CO2	Demonstrate an understanding of concept in relation to purchase and sale of goods, services and assets and loan and credit of Foreign Currency Transactions and its accounting.
CO3	Demonstrate an understanding of concepts, legal procedure of liquidation or winding up of company and accounting of the same.
CO4	Understand the concepts of underwriting and Provision of Companies Act with respect to underwriting of shares and debentures and its accounting.
CO5	Understand the concept and statutory provisions of Conversion of partnership firm into LLP and accounting of the same.


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SEMESTER V

Financial Accounting & Auditing-VIII (Cost Accounting)



CO1	Explain the various concepts and techniques of costing. (UNDERSTAND)
CO2	Define, classify and recognize the different types of costs and prepare cost sheets.
CO3	Solve problems pertaining to Material and Labour Cost; allocation and apportionment of overheads across cost centres.
CO4	Differentiate between Financial Accounting and Cost Accounting and reconcile the profits of the same.

SEMESTER VI

Financial Accounting & Auditing-X (Cost Accounting)

CO1	Understand the emerging concepts of Cost Accounting.
CO2	Apply the techniques of marginal costing, break even analysis to determine appropriate managerial decisions.
CO3	Prepare a contract account and understand various aspects of contract costing including treatment of profit on incomplete contracts.
CO4	Draw up process accounts and statements of joint products and by-products.
CO5	Understand the concept of standard cost, classify the different types of variances and find out the variances in respect to material and labour.
CO6	Differentiate between integrated and non-integrated system of accounting, differentiate between nominal ledger and other control accounts and would prepare Cost Control Accounts.


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SEMESTER V
Commerce-V
Marketing



CO1	Explain basic concept Marketing.
CO2	Evaluate the Marketing Decisions and its successful Implementation.
CO3	Understand the components of Physical Distribution
CO4	Understand the concept of Unethical Marketing Evaluate the factors contributing to a brands success and failure

SEMESTER VI
Commerce-VI
Human Resource Management

CO1	Explain basic concept of Human Resource Management
CO2	Evaluate Trends in Human Resource Management
CO3	Demonstrate Motivational and Leadership models in real world.
CO4	Effectively use concept of Emotional Quotient and Spiritual quotient for boosting Morale


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SEMESTER V
Export Marketing-I



CO1	Get an insight into the field of global and Indian export marketing practices
CO2	Learn about the procedural formalities required for undertaking export activity in the country
CO3	Know about the institutional structure, incentives and export promotion facilities initiated by the government
CO4	Learn about marketing mix strategies including Product, Price, Promotion and physical distribution ineffective marketing of exportable goods

SEMESTER VI
Export Marketing-II

CO1	Get an insight into the field of global and Indian export marketing practices
CO2	Learn about the procedural formalities required for undertaking export activity in the country
CO3	Know about the institutional structure, incentives and export promotion facilities initiated by the government
CO4	Learn about marketing mix strategies including Product, Price, Promotion and physical distribution ineffective marketing of exportable goods


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SEMESTER V
Labour Welfare & Practice-I



CO1	Learn about Evolution of Labour Welfare in India.
CO2	Know about the Labour Welfare Facilities and Labour Laws of the Elimination of Child Labour
CO3	Learn about Agencies of Labour welfare in India (Central govt. , State govt., Employers & Trade- Unions)
CO4	Know about Industrial hygiene & Occupational Health Industrial accidents

SEMESTER VI
Labour Welfare & Practice -II

CO1	Learn about Various Social Security provisions made in India (Employees provident fund Act, Maternity benefit Act, Family Pension Scheme, Provision of Gratuity Act 1972)
CO2	Learn about Socio-Economic aspects affecting Labour welfare, Productivity & Living standard of labour.
CO3	Know about Labour Force & Human Development in India
CO4	Know about Labour force & Human Resource Development in India. and Globalisation & Labour Markets in India.


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Arts Commerce & Science College
Kharepatan
Department of English

PROGRAMME OUTCOME & COURSE OUTCOME

PROGRAMME OUTCOME:

- | | |
|-------------|---|
| PO1 | Realization of moral, ethical and human values. |
| PO2 | Responsible and dutiful citizens. |
| PO3 | Inculcation of creative abilities. |
| PO4 | Awareness about environmental consciousness. |
| PO5 | Development of employability and soft-skills. |
| PO6 | Awareness of cross-cutting and contemporary issues. |
| PO7 | Development of Research Aptitude. |
| PO8 | Development of national integrity and global competency. |
| PO9 | Instillation of sense of social service. |
| PO10 | Understanding of core discipline in the humanities and social sciences. |

COURSE OUTCOME:

PAPER I : INTRODUCTION TO LITERATURE

- | | |
|------------|--|
| CO1 | Read and write clearly, coherently and effectively about various genres of literature. |
| CO2 | Recognize the culture and context of the work of literature. |
| CO3 | Develop sensitivity to nature and fellow human beings. |
| CO4 | Understand the development of the English language as used in works of literature. |

PAPER II : Drama

- | | |
|------------|--|
| CO1 | Develop interest and passion for drama and theatre. |
| CO2 | Learners will be familiarized with the salient elements and characteristics of drama. |
| CO3 | Identify the different forms and types of drama. |
| CO4 | Identify the various trends and characteristics of significant dramatic movements through the representative dramas. |

PAPER III : INTRODUCTION TO POETRY

- CO1 Familiar with different genres and forms of poetry.
- CO2 Acquire poetic technique, style and rhetorical devices used in poetry.
- CO3 Aware of major poets of world literature and define the importance of their works.
- CO4 Critically appreciate poems by separating various component parts and investigating the relationship of the parts to the whole.

PAPER IV : 16TH TO 18 TH CENTURY ENGLISH LITERATURE –I

- CO1 Understand the distinctive features of English literature of the 16th, 17th and 18th centuries.
- CO2 Comprehend how background influences shaped the writer's thinking.
- CO3 Recognize and appreciate the literary masters who dominated the scene.
- CO4 Grasp the different writing styles that each age adopted.

PAPER V : LITERARY CRITICISM

- CO1 Use some important critical terms.
- CO2 Become aware the nature and function of literature and criticism.
- CO3 Impart the technique of close reading of literary texts.
- CO4 Understand the various literary theories and critical approaches.

PAPER VI : GRAMMAR AND THE ART OF WRITING

- CO1 gain a basic understanding of phonetics, morphology and word transformation
- CO2 Acquire speaking skills.
- CO3 Develop adequate knowledge of the rules of grammar, grammatical analysis and sentence transformation.
- CO4 Write effectively in various domains.




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