



Vidya-Amrut Dnyan Pratishthan's
Arts, Science & Commerce College, Shirsondi
Tal: - Malegaon, Dist: - Nashik (423208)
(Affiliated to Savitribai Phule Pune University, Pune)



Criterion-II:

Teaching-learning and Evaluation

2.6 Student Performance and Learning Outcomes

2.6.1: Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

- 1. Programme Outcomes (POs)**
- 2. Course Outcomes (COs)**
- 3. Programme Specific Outcomes (PSOs)**



ID.No. : PU / NS / ACS / 175 / 2018

Vidya-Amrut Dnyan Pratishthan Shirsondi's

Arts, Science & Commerce College, Shirsondi

Shirsondi, Tal. Malegaon, Dist. Nashik 423 208

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(M.Com., M.Phil, Ph.D.)

Date: 06/12/2023

DECLARATION

This is to declare that the information, reports, true copies of the supporting documents, numerical data etc. submitted/presented in the files is verified by Internal Quality Assurance Cell (IQAC) and it is correct as per the record.


This declaration is for the purpose of NAAC accreditation of HEI for the 1st cycle period 2018-19 to 2022-23.

Date: 06/12/2023

Place: Shirsondi


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2.6.1: Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

**Program Outcomes, Program Specific Outcomes and Course Outcome
Department of Botany**

Program Outcome :B.Sc. (Botany)	
PO1	<ul style="list-style-type: none"> Students know about different types of lower & higher plants their evolution from algae to angiosperm & also their economic and ecological importance.
PO2	<ul style="list-style-type: none"> Cell biology gives knowledge about cell organelles & their functions
PO3	<ul style="list-style-type: none"> Molecular biology gives knowledge about chemical properties of nucleic acid and their role in living systems.
PO4	<ul style="list-style-type: none"> Genetics provides knowledge about laws of inheritance, various genetic interactions, chromosomal aberrations & multiple alleles.
PO5	<ul style="list-style-type: none"> Structural changes in chromosomes.
PO6	<ul style="list-style-type: none"> Student can describe morphological & reproductive characters of plant and also identified different plant families and classification.
PO7	<ul style="list-style-type: none"> They know economic importance of various plant products & artificial methods of plant propagation
PO8	<ul style="list-style-type: none"> Use modern Botanical techniques and decent equipment's.
PO9	<ul style="list-style-type: none"> To inculcate the scientific temperament in the students and outside the scientific community
PO10	<ul style="list-style-type: none"> Industrial Botany: By studying this course students can apply this knowledge in various industries such as Mushroom cultivation, bio fertilizer production, bio pesticide, etc. They can also set up their own industries.

Program Specific outcome: B.Sc. (Botany)	
PSO1	<ul style="list-style-type: none"> • Students acquire fundamental Botanical knowledge through theory and practical's.
PSO2	<ul style="list-style-type: none"> • To explain basis plant of life, reproduction and their survival in nature. PSO-3. Helped to understand role of living and fossil plants in our life.
PSO4	<ul style="list-style-type: none"> • Understand good laboratory practices and safety.
PSO5	<ul style="list-style-type: none"> • To create awareness about cultivation, conservation and sustainable utilization of biodiversity.
PSO6	<ul style="list-style-type: none"> • To know advance techniques in plant sciences like tissue culture, Phytoremediation, plant disease management, formulation of new herbal drugs etc.
PSO7	<ul style="list-style-type: none"> • Students able to start nursery, mushroom cultivation, biofertilizer production, fruit preservation and horticultural practices


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Course Outcomes of B.Sc. (Subject)

Class	Course title	Outcome
F.Y.B.Sc. (Paper-I)	Fundamentals of Botany	<ul style="list-style-type: none"> • Study of morphology & Anatomy of lower plants • Know about life cycle of different plant groups i.e. cryptogams and phanerogams • Evolutionary study of plants • Study of Classification of plants
F.Y.B.Sc. (Paper-II)	Industrial Botany	<ul style="list-style-type: none"> • Introduction to plant resources • Floriculture industry – study of important floriculture crops, Green house technology, cultivation practices • Concept and types of nursery and propagation methods • Study of plant tissue culture industry • Study of organic farming, Seed industries • Study of Mushroom cultivation and commercial production
F.Y.B.Sc. (Paper-III)	Practical based on theory paper I& II	<ul style="list-style-type: none"> • Study of anatomy and morphology of different plants • Study of artificial plant propagation techniques • Study of techniques in plant tissue culture • Cultivation of mushrooms • Study of biofertilizers and biopesticides • Preparation of jams, squash, etc.
F.Y.B.Sc. (Paper-I)	Fundamentals of Botany	<ul style="list-style-type: none"> • Study of morphology & Anatomy of higher plants • Know about different types of inflorescences and parts of typical flower • Types of fruits and seeds • Tissue differentiation and different types of tissues • Internal origination of primary plant body

FYBSc- (Paper-II)	Industrial Botany	<ul style="list-style-type: none"> • Introduction, production and advantages of Bio-fuel industries • Study of bio-pesticides, IPM, concept of Biocontrol 3. Biofertilizer concept , types, products and commercial significance • Fruit processing industries, cold storages, types of processing • Study of ayurvedic formulations using specific plants and use of plants as neutraceuticals and pharmaceuticals
F.Y.B.Sc. (Paper-III)	Practical based on theory paper I& II	<ul style="list-style-type: none"> • Study of anatomy and morphology of different plants • Study of artificial plant propagation techniques • Study of techniques in plant tissue culture • Cultivation of mushrooms • Study of biofertilizers and biopesticides • Preparation of jams, squash,etc.
S.Y.B.Sc. (Paper-I)	Taxonomy of Angiosperms	<ul style="list-style-type: none"> • Know principals of taxonomy, methods in taxonomy • Types of taxonomy, Sources of data for taxonomy • Methods of preparation of Herbarium, E-Herbarium etc.
S.Y.B.Sc. (Paper-II)	Plant Physiology	<ul style="list-style-type: none"> • Applications of plant physiology, Mechanism of Absorption of water, Transpiration
		<ul style="list-style-type: none"> • Plant growth and growth regulators, Nitrogen Metabolism in plants
		<ul style="list-style-type: none"> • Physiology of flowering
S.Y.B.Sc. (Paper-I)	Plant Anatomy and Embryology	<ul style="list-style-type: none"> • Know different tissue systems in plants • Normal secondary growth and different types of anomalous secondary growth • Study of male and female gametes in angiosperms, Process of fertilization and types of endosperms and structure of embryo.
S.Y.B.Sc. (Paper-II)	Plant Biotechnology	<ul style="list-style-type: none"> • Know various application of biotechnology like Enzyme technology, Fermentation technology • Single Cell Proteins and Environmental biotechnology • Know Basics of Plant Genetic Engineering, Methods of gene transfer in plants and applications of plant genetic engineering in crop improvement • Knowledge about Nanotechnology and its applications in Agriculture

S.Y.B.Sc. (Paper-III)	Practical based on theory paper I & II	<ul style="list-style-type: none"> • Know practical knowledge of plant family of angiosperms • Study of different ecological groups and methods to study vegetations in forests • Study different parameters of plant physiology like WHC, DPD, Rate of transpiration and Different instruments used in physiology • Study of Different tissue systems and normal and anomalous secondary growth • Study of fermentation techniques, Spirullina cultivation for SCP
T.Y.B.Sc. (Paper-I)	Cryptogamic Botany	<ul style="list-style-type: none"> • Systematics and Taxonomy • Evolution from Cryptograms to phanerogams • Classification, economic and ecological importance.
T.Y.B.Sc. (Paper-II)	Cell and Molecular Biology	<ul style="list-style-type: none"> • Cell biology gives the knowledge of Internal organization of the cell • Cellular signaling, transport and trafficking, Cellular Processes. • Molecular biology provides the Gene structure and Function • DNA: Structure, Functions and Damage
T.Y.B.Sc. (Paper-III)	Genetics and Evolution	<ul style="list-style-type: none"> • Genetics provides knowledge regarding Classical Genetics, Microbial Genetics & Cytogenetics • Plant Breeding • Evolution provides Information about Darwin theory and lamark's theory
TYBSc (Paper-IV)	Spermatophyta and Palaeobotany	<ul style="list-style-type: none"> • SPERMATOPHYTA gives knowledge of general characters, economic importance and classification of Gymnosperm and Angiosperm. • PALAEOBOTANY provides the information regarding the Fossils.
T.Y.B.Sc. (Paper-V)	Horticulture and Floriculture	<ul style="list-style-type: none"> • Understand economic importance of plant and plant product. • Know the methods of plant propagation. • Understand the fruit & vegetables production technology, scope & importance of floriculture. • Methods of cultivation of different flowering plants.

T.Y.B.Sc. (Paper-VI)	Computational Botany	<ul style="list-style-type: none"> • Study the scope & importance of biostatistics. • Know scope and some basic commonly used terms like sampling, data, dispersion, population, central tendency etc. • Knowledge to apply statistical analysis to biological data for testing different hypothesis.
T.Y.B.Sc. (Paper-I)	Plant Physiology and Biochemistry	<ul style="list-style-type: none"> • Plant physiology and Biochemistry give knowledge regarding the Photosynthesis, Respiration, Translocation of organic solutes • Carbohydrates, Amino acids and proteins, Secondary Metabolites
T.Y.B.Sc. (Paper-II)	Plant Ecology and Biodiversity	<ul style="list-style-type: none"> • Know the biotic and abiotic components of ecosystem. • Food chain & food web in ecosystem. • Understand diversity among various groups of plant kingdom. • Understand plant community & ecological adaptation in plants. • Scope, importance and management of biodiversity.
T.Y.B.Sc. (Paper-III)	Plant Pathology	<ul style="list-style-type: none"> • Study scope and importance of plant pathology. • Know disease cycle and disease development, • Effect of plant diseases on economy of crops. • Know the methods of studying plant diseases. They can identify the plant diseases like bacterial, nematode, and fungal, disease forecasting. • Study prevention and control measures of plant diseases.
T.Y.B.Sc. (Paper-IV)	Medicinal and Economic Botany	<ul style="list-style-type: none"> • Understand scope and importance of pharmacognosy. • Know the cultivation, collection, processing & importance of various herbal drugs and scope of economic botany. • Know the botanical resources like non wood forest products and study the concept of Ayurvedic pharmacy.

T.Y.B.Sc. (Paper-V)	Plant Biotechnology	<ul style="list-style-type: none"> • Study of Plant tissue culture Technology and Recombinant DNA technology • Understand Role of microbes in agriculture, medicine & industry. • Study the concept of bioinformatics & genomics proteomics. Understand technical germplasm & cryopreservation.
T.Y.B.Sc. (Paper-VI)	Plant Breeding and Seed technology	<ul style="list-style-type: none"> • Study the scope & importance of plant breeding. • Study the technique of production of new superior crop varieties, heterosis, hybrid vigor etc. • Know the process of hybrid variety, development & their release. • Know about seed germination, processing , production etc.
T.Y.B.Sc. (Paper-VII)	Practical I	<ul style="list-style-type: none"> • Study of Vegetative and Reproductive structure of Algae, Fungi, Bryophytes and Pteridophytes • Study techniques of cytology, Mitosis, Meiosis, Chromosome morphology • Estimation of DNA and RNA • Estimate Chlorophyll, TLC, Proteins and Amino acids • Study of advanced biotechnological techniques
T.Y.B.Sc. (Paper-VIII)	Practical II	<ul style="list-style-type: none"> • Study plant families • Study structural heterozygote's, Gene mapping, • Study of Vegetative and Reproductive structure of gymnosperms and Pleobotany
T.Y.B.Sc. (Paper-IX)	Practical III	<ul style="list-style-type: none"> • Study techniques in Horticulture and floriculture like cutting, Layering, Budding, Grafting • Calculating Mean mode median, methods of graphical presentations • Study different plant diseases like fungal, bacterial, microbial etc. • Study medicinal plants and methods of preparation of extracts and quantitative analysis of alkaloids, tannins etc.

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of Chemistry

Program outcome : B.Sc. (Chemistry)	
PO1.	<ul style="list-style-type: none">Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.
PO2.	<ul style="list-style-type: none">Solve the problem and also think methodically, independently and draw a logical conclusion.
PO3.	<ul style="list-style-type: none">Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
PO4.	<ul style="list-style-type: none">Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
PO5.	<ul style="list-style-type: none">Find out the green route for chemical reaction for sustainable development.
PO6.	<ul style="list-style-type: none">To inculcate the scientific temperament in the students and outside the scientific community.
PO7.	<ul style="list-style-type: none">Use modern techniques, decent equipments and Chemistry software's


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Program Outcomes, Program Specific Outcomes and Course Outcome

Department of Chemistry

Program Specific outcome : B.Sc. (Chemistry)	
PSO1.	<ul style="list-style-type: none">Gain the knowledge of Chemistry through theory and practical's.
PSO2.	<ul style="list-style-type: none">To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.
PSO3.	<ul style="list-style-type: none">Identify chemical formulae and solve numerical problems.
PSO4.	<ul style="list-style-type: none">Use modern chemical tools, Models, Chem-draw, Charts and Equipments
PSO5.	<ul style="list-style-type: none">Know structure-activity relationship.
PSO6.	<ul style="list-style-type: none">Understand good laboratory practices and safety.
PSO7.	<ul style="list-style-type: none">Develop research oriented skills.
PSO8.	<ul style="list-style-type: none">Make aware and handle the sophisticated instruments/equipments.

Program Outcomes, Program Specific Outcomes and Course Outcome**Department of Chemistry****Course Outcomes of B.Sc. (Chemistry)**

Class	Course title	Outcome
F.Y.B.Sc. (Paper-I)	CH-101 Physical chemistry	<ul style="list-style-type: none">• Learn the thermodynamic principles, calculation of different types of energies Exergonic and Endergonic reaction, Gas equilibrium• Concept of PH of different salts, buffer solution, common ion effect
F.Y.B.Sc. (Paper-II)	CH-101 Organic chemistry	<ul style="list-style-type: none">• To learn fundamentals principles and developments of organic chemistry• Learn the confirmation .cis –trans• Learn difference in alkane ,alkene and alkyne
F.Y.B.Sc. (Paper-III)	CH-103 Chemistry Practical	<ul style="list-style-type: none">• Chemical safety and Lab safety• Determination of thermochemical parameters• Techniques of pH measurements , Preparation of buffer solutions• Elemental analysis of organic compounds, Chromatographic Techniques for separation of constituents of mixtures
F.Y.B.Sc. (Paper-I)	CH-201 Inorganic chemistry	<ul style="list-style-type: none">• Various theories and principles of atomic structure• Origin of quantum mechanics , Schrodinger equation, Significance of quantum numbers, Shapes of orbitals• To learn periodic table ,properties trends• learn chemical bonding of different molecule
F.Y.B.Sc. (Paper-II)	CH-202 Analytical chemistry	<ul style="list-style-type: none">• Introduction to Analytical Chemistry• Relation between molecular formula and empirical formula• Purification techniques for organic compounds.• Theoretical background for Paper and Thin Layer Chromatography• Applications of pH meter
F.Y.B.Sc. (Paper-III)	CH-203 Chemistry Practical	<ul style="list-style-type: none">• Inorganic Estimations using volumetric analysis• Synthesis of Inorganic compounds• Analysis of commercial products• Purification of organic compounds. Preparations and mechanism of reactions involved

S. Y. B. Sc. (Paper-I)	CH-211 Physical & Analytical Chemistry	<ul style="list-style-type: none"> • Introduction to Analytical Chemistry, Chemical analysis and its applications, Sampling, Common techniques, Instrumental methods and other techniques, Choice of method. Basic principles in qualitative analysis , Meaning of common ion effect, Role of common ion effect and solubility product
S. Y. B. Sc. (Paper-II)	CH-212 Organic & Inorganic Chemistry	<ul style="list-style-type: none"> • In Organic Chemistry, Students learnt about the Stereochemistry, where they have dealt with chirality, optical activity and polarimetry, enantiomers, absolute configuration, R/S system nomenclature. In addition, they learnt about Baeyer strain theory and cyclohexane's conformations and geometrical isomerism. Also organic reaction and mechanism. Substitution and elimination reactions also have been studied. • (i) Definition of corrosion. ii) Types of corrosion. iii) Mechanism of corrosion. iv) Factors affecting corrosion. v) Methods of prevention of metal from corrosion. vi) Meaning of passivity. vii) Different theories of passivity. viii) Galvanising, Tinning
S. Y. B. Sc. (Paper III)	CH-221 Physical & Analytical Chemistry	<ul style="list-style-type: none"> • Meaning of equivalent weight, molecular weight, normality, molality, primary and secondary standards. Different way to express concentrations of the solution, Preparation of standard solution, Calibrate various apparatus such as burette, pipette, volumetric flask, barrel pipette etc. • Types instrument
S. Y. B. Sc. (Paper- IV)	CH-222 Organic & Inorganic Chemistry	<ul style="list-style-type: none"> • Learnt about oxidation and reduction concept. Catalytic hydrogenation were studied, where Birch reduction, Resenmund's reduction were studied.
S. Y. B. Sc. (Paper-V)	Practical Course in Chemistry CH – 223	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance
T. Y. B. Sc. (Paper-I)	CH-331 Physical Chemistry	<ul style="list-style-type: none"> • Write an expression for rate constant K for third order reaction • Solve the numerical problems based on Rate constant • Understand the term specific volume, molar volume and molar refraction • Know the meaning of phase, component and degree of freedom • Derive the expression for rotational spectra for the transition from J to J+1

T. Y. B.Sc. (Paper-II)	CH-332 Inorganic Chemistry	<ul style="list-style-type: none"> • Know the meaning of various terms involved in co- ordination chemistry • To understand Werner's formulation of complexes and identify the types of valences • Know the limitations of VBT • Know the shapes of d-orbital's and degeneracy of d- orbital's • Draw the geometrical and optical isomerism of complexes
T. Y. B.Sc. (Paper-III)	CH-333 Organic Chemistry	<ul style="list-style-type: none"> • Define organic acids and bases. • Distinguish between geometrical and optical isomerism. • Discuss kinetics, mechanism and stereochemistry of SN1 and SN2 reactions. • Compare between E1 and E2 reactions. • Understand the evidences, reactivity and mechanism of various elimination and substitution reactions.
T. Y. B.Sc. (Paper- IV)	CH- 334Analytical Chemistry	<ul style="list-style-type: none"> • Know the principles of common ion effect and solubility product. • Study the methods of thermo-gravimetric analysis. • Understand the principles of Spectro-photometric analysis and properties of electromagnetic radiations. • Study the Voltammetry and Polarography as an analytical tool. • Measure the absorbance of atoms by AAS.
T. Y. B.Sc. (Paper-V)	CH-335 Industrial Chemistry	<ul style="list-style-type: none"> • Know the importance of chemical industry. • Classify various insecticides. • Study the nutritive aspects of food constituents. • Understand the characteristics of some food starches. • Study the manufacture of cement, dyes, Glass, Soap and Detergents by modern methods.
T. Y. B.Sc. (Paper- VI)	CH-336- EEnvironmental Chemistry	<ul style="list-style-type: none"> • Know the role of environmental chemistry and its potential • Understand the basic concept of properties of soil & its classification on the basis of pH. • Know the different plant nutrients, their functions and deficiency symptoms. • Identify the problematic soil pollution, air, water pollution. • Have the knowledge of various pesticides, insecticides, fungicides and herbicides and their impact

T. Y.B.Sc. (Paper-I)	CH-331 Physical Chemistry	<ul style="list-style-type: none"> • Understand Mechanics of system of particles. • Know the Redox reaction. • Study the Nuclear Chemistry. • Solve the cell reaction and calculate EMF.. • Calculate interplanar distance. • Understand De-Broglie hypothesis and Uncertainty principle • Derive Schrodinger's time dependent and independent equations
T. Y.B.Sc. (Paper-II)	CH-332 Inorganic Chemistry	<ul style="list-style-type: none"> • Study the electronic configuration of lanthanides and actinides. • Get knowledge of Crystalline solid. • Understand different operation in stoichiometric molecule. • Study the Bio-inorganic chemistry. • Understand the p-type semiconductor and n-type semiconductor
T. Y.B.Sc. (Paper-III)	CH-333 Organic Chemistry	<ul style="list-style-type: none"> • To study UV, IR and NMR spectroscopy. • Discuss different types of rearrangement reactions. • Determine structure of compound by spectroscopic methods. • Understand the difference between carbocation and carbanion. • To study alkaloids, Ephedrine, citral molecule with their properties and application.
T. Y.B.Sc. (Paper- IV)	CH- 334Analytical Chemistry	<ul style="list-style-type: none"> • Know the different analytical techniques. • To understand different types of separation techniques. • To study principle, construction and working of GC and HPLC. • To give an extended knowledge about chromatographic techniques used for separation of amino acids. • Discuss the problem based on distribution coefficient and extraction techniques.
T. Y.B.Sc. (Paper-V)	CH-335 Industrial Chemistry	<ul style="list-style-type: none"> • Know the various pharmaceutical drugs, their application and synthesis. • To study the waste management. • To understand the function of dyes, paints and pigments. • To study the various type of surfactants. • To know about molasses and bagasse. • To study the different types of polymer.

T. Y. B.Sc. (Paper- VI)	CH-336- EEnvironmental Chemistry	<ul style="list-style-type: none"> • Know the various environmental issues and their solution. • To study the waste management. • To understand the function of chemicals and application of green chemistry. • To study the various type of surfactants. • To know natural sources of energy. • To study the different types of hazardous and toxic chemicals.
T. Y. B.Sc. (Paper- VII)	CH-347 Physical chemistry practical's	<ul style="list-style-type: none"> • Calculate molar and normal solution of various concentrations. • Determine specific rotations and percentage of optically active substances by polarimetrically. • Study the energy of activation and second order reaction. • Study the stability of complex ion and standard free energy change and equilibrium constant by potentiometry. • Find out the acidity, Basicity and PKa Value on pH meter.
T. Y. B.Sc. (Paper- VIII)	CH- 348Inorganic chemistry practical's	<ul style="list-style-type: none"> • Study the gravimetric and volumetric analysis of ores and alloy. • Prepare a various inorganic complex and determine its % purity. • To study binary mixture with removal of borate and phosphate. • To understand the chromatographic techniques
T. Y. B.Sc. (Paper- IX)	CH-349 Organic chemistry practical's	<ul style="list-style-type: none"> • Perform the Binary mixtures. • Preparation of organic compounds, their purifications and run TLC. • Determination of physical constant: Melting point, Boiling point. • Different separation techniques.


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Program Outcomes, Program Specific Outcomes, Course Outcomes
Department of Mathematics

Program outcome : B.Sc. (Mathematics)	
PO1	<ul style="list-style-type: none">• Solve and an understanding of concepts in all disciplines of Mathematics
PO2	<ul style="list-style-type: none">• Solve the problem and also think methodically, independently and draw a logical conclusion
PO3	<ul style="list-style-type: none">• Be well grounded in the basic manipulative skills level of algebra, geometry, trigonometry and beginning level calculus
PO4	<ul style="list-style-type: none">• Be able to transmit mathematics ideas both orally and in writing.
PO5	<ul style="list-style-type: none">• Apply the underlying unifying structures of mathematics (i.e. sets, relations and functions, logical structure) and the relationships among them
PO6	<ul style="list-style-type: none">• Gain experience investigating the real world problems and learn to how to apply Mathematical ideas and models to those problems.

Program Outcomes, Program Specific Outcomes, Course Outcomes
Department of Mathematics

Program Specific outcome : B.Sc. (Mathematics)	
PSO1	<ul style="list-style-type: none">• Think in a critical manner.
PSO2	<ul style="list-style-type: none">• Know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand.
PSO3	<ul style="list-style-type: none">• Formulate and develop mathematical arguments in a logical manner
PSO4	<ul style="list-style-type: none">• Acquire good knowledge and understanding in advanced areas of mathematics and statistics, chosen by the student from the given courses.
PSO5	<ul style="list-style-type: none">• Understand, formulate and use quantitative models arising in social science, business and other contexts.

Course Outcomes of BSc (Mathematics)
Department of Mathematics

Class	Course title	Outcome
F.Y.B.Sc. (Paper-I)	Algebra and Geometry	<ul style="list-style-type: none"> • Solve various problems on properties of integers and use the basic concepts of divisibility, congruence and their applications in basic algebra. • Apply factor theorem, remainder theorem to solve problems on polynomials and by using given relations between roots he will find the roots of polynomials • Solve the system of homogeneous and non-homogeneous linear of m equations in n variables by using concept of rank of matrix, finding eigen values and eigen vectors. • Solve the problems of lines in three dimension, planes, spheres, and cylinders and how geometry is related to algebra by using their algebraic equations
F.Y.B.Sc. (Paper-II)	Calculus and Differential Equations	<ul style="list-style-type: none"> • Identify algebraic and order properties of real numbers. • Identify and apply the function properties of real numbers system such as the completeness property • Verify the values of limit of a function at a point using the definition of a limit • Students will be familiar with the techniques of integration and differentiation of function with real variables • Identify and apply the intermediate value thm, Mean value thm and L'Hospital's rule • Identify types of differential equations and solve differential equations such as Exact, homogeneous, non-homogeneous, and linear and Bernoulli differential equations etc.

Class	Course title	Outcome
S.Y.B.Sc. (Paper-I) (I)	Multivariable Calculus I	<ul style="list-style-type: none"> • Students learn analysis of multivariable functions, continuity, and differentiability. • learn the concepts of multiple integrals and their application to area and volumes
S.Y.B.Sc. (Paper-II) (I)	Laplace Transforms and Fourier Series	<ul style="list-style-type: none"> • Learn the methods and properties of Laplace transform and Inverse Laplace Transforms, apply them to solve Linear Differential equations. • Apply the fundamental concepts of Fourier series, Fourier Sine series, Fourier Cosine series to find series Representation of irrational numbers.
	Discrete Mathematics	<ul style="list-style-type: none"> • Understand the addition and multiplication principles for counting • Understand how to apply combinatorial ideas to real life problems • Use generating functions to solve variety of combinatorial problems
S.Y.B.Sc. (Paper-I) (II)	Linear Algebra	<ul style="list-style-type: none"> • Use the concept of basis and dimension of vector spaces linear dependence and linear independence, to solve problems. • Use the concept of inner product spaces to find norm of vectors, distance between vectors, check the orthogonality of vectors, to find the orthogonal and orthonormal basis. • Apply the properties of linear transformations to linearity of transformations, kernel and rank of linear transformations, inverse transformations to solve the problems of matrix transformations, change of basis.
S.Y.B.Sc. (Paper-II)	Multivariable Calculus II Numerical Analysis	<ul style="list-style-type: none"> • Students develop knowledge in the limit, continuity, differentiation of vector functions. • Use the various techniques of solving Integral problems of vector valued functions. • The students will not only learn how to use the finite element method, but also how to formulate and code a finite element method for any given set of partial differential equations. Thus, the finite element method is developed as a tool for the numerical solution of partial differential equations, and not confined only to structural mechanics applications the way it is typically taught. • The students will learn how to Solve the Ordinary differential equation by various methods • The students will learn how to find the Integration & Derivative by various methods • The students will learn how to find the roots of the equation by various methods

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Department of Physics

Program outcome: B.Sc. (Physics)	
PO1.	<ul style="list-style-type: none"> Transfer and apply the acquired fundamental knowledge of physics, including basic concepts and principles of 1) classical mechanics, electrodynamics, quantum mechanics, Statistical Mechanics and thermodynamics;(2) mathematical (analytic and numerical) methods and experimental methods for physics to study different branches of physics
PO2.	<ul style="list-style-type: none"> Demonstrate the ability to translate a physical description to a mathematical equation, and conversely, explain the physical meaning of the mathematics, represent key aspects of physics through graphs and diagrams, and use geometric arguments in problem-solving
PO3.	<ul style="list-style-type: none"> Apply and demonstrate knowledge of concepts of physics, to analyze a variety of physical phenomena
PO4.	<ul style="list-style-type: none"> Demonstrate the learned laboratory skills, enabling them to take measurements in a physics laboratory and analyse the measurements to draw valid conclusions
PO5.	<ul style="list-style-type: none"> Capable of oral and written scientific communication, and will prove that they can think critically and work independently.
PO6.	<ul style="list-style-type: none"> Communicate effectively using graphical techniques, reports and presentations within a scientific environment.
PO7.	<ul style="list-style-type: none"> Use and apply professional software for scientific data analysis and presentation
PO8.	<ul style="list-style-type: none"> Respond effectively to unfamiliar problems in scientific contexts
PO9.	<ul style="list-style-type: none"> Plan, execute and report the results of a complex extended experiment or investigation, using appropriate methods to analyze data and to evaluate the level of its uncertainty
PO10.	<ul style="list-style-type: none"> Integrate and apply these skills to study different branches of physics.
PO11.	<ul style="list-style-type: none"> Work comfortably with numbers and analyzing an issue quantitatively, acquire knowledge effectively by self-study and work independently, present information in a clear, concise and logical manner and apply appropriate analytical and approximation methods
PO12.	<ul style="list-style-type: none"> Willingness to take up responsibility in study and work Confidence in his/her capabilities Capacity to work effectively in a team Motivation for learning and experimentation

Department of Physics

Program Specific Outcome: B.Sc. (Physics)	
PSO1.	<ul style="list-style-type: none">• Demonstrate and understanding of principles and theories of physics. These include: Newtonian Mechanics, thermodynamics, atomic and Molecular physics, electrodynamics, electronics, optics, nuclear physics, quantum mechanics.
PSO2.	<ul style="list-style-type: none">• Apply vector algebra, differential and integral calculus as well as graphical methods to solve physics problems.
PSO3.	<ul style="list-style-type: none">• Demonstrate ability to apply knowledge learned in classroom to set and perform simple laboratory experiments.
PSO4.	<ul style="list-style-type: none">• Solve physics problems using the appropriate methods in mathematical, theoretical and computational physics.

Department of Physics
Course Outcomes of B.Sc. (Physics)

Class	Course	Outcomes
F.Y.B.Sc	PHY111: Mechanics and Properties of Matter	<ul style="list-style-type: none"> • Demonstrate an intermediate knowledge of Newton's Laws and the equations of motion • Analyse the forces on the object and apply them in calculations of the motion of simple systems using the free body diagrams • Determine whether using conservation of energy or conservation of momentum would be more appropriate for solving a dynamics problem • Apply the concepts of elasticity to real world problems. • List fundamental forces in nature, applications and factors affecting surface tension. • Define and conceptualize different laws of fluid mechanics and related quantities like steady, turbulent flow and concept of Reynolds number • Demonstrate different applications of Bernoulli's theorem, laws of elasticity, surface tension.
	PHY112: Physics principles and applications	<ul style="list-style-type: none"> • Define absorption, spontaneous emission and stimulated emission process and describe Laser action describe different atomic models in order to understand atomic structure • Classify different types of bonding & their properties. • Draw electromagnetic spectrum showing different regions and analyze vibrational & rotational spectra of diatomic molecule. • Study the properties of Laser and its applications. • Quote essential principles of operation of radar system and develop the radar for any given frequency • Describe principle and construction of solar cell & to calculate efficiency and fill factor of solar cell.
	PHY-113 :Physics Laboratory-IA	<ul style="list-style-type: none"> • Acquire technical and manipulative skills in using laboratory equipment's, tools and materials. • Understand of laboratory procedures including safety and scientific techniques. • Skill development in collaborative learning and teamwork in lab setting.

F.Y.B.Sc	PHY121: Heat and Thermodynamics	<ul style="list-style-type: none"> • Define laws of thermodynamics, entropy, thermodynamic processes etc. • Describe Andrew's experiment, Amagat's experiment, Carnot engine concept of entropy. • Derive expression for efficiency of heat engine (Otto cycle, Diesel cycle, and Carnot cycle), latent heat equation, adiabatic relations for perfect gas, work done during isothermal and adiabatic change. • Determine critical constants using Vander Waal's gas equation Reduced equation of state • Compare reversible and irreversible processes, adiabatic and isothermal process, • Illustrate that work is a path dependent function using PV diagram and to solve entropy for reversible and irreversible process. • Apply first law of thermodynamics to solve problems. • Categorize thermometers and state its applications
	PHY122: Electromagnetics	<ul style="list-style-type: none"> • Define the basic terms such as electric field, electric potential, magnetic intensity, magnetic induction, magnetic susceptibility and electric and magnetic flux. • State and conceptualise basic laws in electromagnetic. • Explain the superposition principle, gauss's law in dielectrics and relation between three electric vectors. • Solve numerical problems using Coulombs Law ,Gauss's law, Biot-Savart's law,Ampere circuital law and principle of superposition • Determine the electric field and potential due to an electric dipole and different types of charge distribution. • Determine magnetic induction due to various current distributions • Derive the relation between three magnetic vectors and compare different types of magnetic material. • Describe soft and hard magnets on the basis of hysteresis loop.
	PHY123: Physics Laboratory-IB	<ul style="list-style-type: none"> • Demonstrate an ability to collect data through observation • Acquire technical and manipulative skills in using laboratory equipment, tools and materials • Experimentation and interpreting data. • Demonstrate an understanding of laboratory procedures including safety, and scientific methods.

	PHY123: Physics Laboratory-IB	<ul style="list-style-type: none"> • Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena. • Acquire the complementary skills of collaborative learning and teamwork in laboratory settings
S.Y.B.Sc	PHY231: Mathematical Methods in Physics	<ul style="list-style-type: none"> • Define the basic operations in complex numbers; • Explain graphical representation of complex numbers and calculate roots of complex numbers; • Solve partial differential equations in Physics; • Discuss vector algebra required in Physics; • Define and calculate the gradient, divergence and curl of a field; • Define order, degree and homogeneity of ordinary differential equation; • Explain singular points of ordinary differential equation; • Develop problem-solving skills of identifying strategies to solve unfamiliar problem
	PHY232: Instrumentations	<ul style="list-style-type: none"> • Understand the concept of measurement. • Understands Static and dynamic characteristics: • Understands Temperature Measurement Techniques • Understands Measurement of Pressure • Understand the performance of measuring instruments. • Design experiments using sensors.
	PHY233: Physics Laboratory-2A	<ul style="list-style-type: none"> • Use various instruments and equipment. • Design experiments to test a hypothesis and/or determine the value of an unknown quantity. • Describe the methodology of science and the relationship between observation and theory. • Set up experimental equipment to implement an experimental approach. • Analyse data, plot appropriate graphs and reach conclusions from your data analysis. • Work in a group to plan, implement and report on a project/experiment. • Keep a well-maintained and instructive laboratory logbook. • Express their knowledge and ideas through oral and written language.

	<p>PHY241: Oscillations, Waves and sound</p>	<ul style="list-style-type: none"> • Define periodic and oscillatory motion; • Setup and solve differential equations of motion for simple harmonic, damped, and forced oscillators; • Describe oscillatory motion with graphs and equations, and use these descriptions to solve problems of oscillatory motion; • Discuss phenomenon of resonance and apply in different applications; • Set and solve differential equation for wave motion for longitudinal and transverse waves; • Calculate the phase velocity, energy and intensity of simple harmonic waves; • Discuss the Doppler effect, and predict in qualitative terms the frequency change that will occur for relative motion between source and observer or listener; • Explain in qualitative terms how frequency, amplitude, and wave shape affect the pitch, intensity, and quality of tones produced by musical instruments.
<p>S.Y.B.Sc</p>	<p>PHY242: Optics</p>	<ul style="list-style-type: none"> • Describe the geometrical formation of images by thin lenses, lens equation and lens maker's formula using fundamental laws of geometrical optics. • Use mathematical analysis to calculate properties of image, formed by combination of lenses and apply theory of optics to calculate the cardinal points of an optical system and design optical devices • Describe optical aberrations produced in image by lenses and methods of their removal. • Describe the construction and operation of optical devices, including, eyepieces, compound microscope, grating, polarizers etc. • Use mathematical analysis to find bright and dark fringes in an interference pattern of thin and wedge shaped film and find a wavelength of light using Newton's rings • Interpret a diffraction pattern to determine resolution of an optical system and grating • Demonstrate an ability to solve problems using 'paraxial' optics-based formulae, numerical calculations and graphical drawings. • Geometrical determination of polarization of light and concept and determine a polarization state of light by interpreting polarizer

S.Y.B.Sc	PHY243: Physics Laboratory-2B	<ul style="list-style-type: none"> • Use various instruments and equipment. • Design experiments to test a hypothesis and/or determine the value of an unknown quantity. • Describe the methodology of science and the relationship between observation and theory. • Set up experimental equipment to implement an experimental approach. • Analyse data, plot appropriate graphs and reach conclusions from your data analysis. • Work in a group to plan, implement and report on a project/experiment. • Keep a well-maintained and instructive laboratory logbook. • Express their knowledge and ideas through oral and written language.
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Program Outcomes, Program Specific Outcomes and Course Outcome
Department of Zoology

Program outcome : B.Sc. (Zoology)	
PO1	<ul style="list-style-type: none">• Demonstrate, solve and an understanding of major concepts in all disciplines of Zoology.
PO2	<ul style="list-style-type: none">• Solve the problem and also think methodically, independently and draw a logical conclusion.
PO3	<ul style="list-style-type: none">• Understand the evolution, history of phylum.
PO4	<ul style="list-style-type: none">• Create an awareness of the impact of Zoology on the environment, society, and development outside the scientific community
PO5	<ul style="list-style-type: none">• To study and understand the classification of whole phyla includes in Non chordates with the help of charts/models/pictures.
PO6	<ul style="list-style-type: none">• To inculcate the scientific temperament in the students and outside the scientific community.
PO7	<ul style="list-style-type: none">• Use modern techniques, decent equipment's

Program Specific Outcome : B.Sc./ (Zoology)	
PSO1	<ul style="list-style-type: none"> • Gain the knowledge of Zoology through theory and practical's.
PSO2	<ul style="list-style-type: none"> • Study and understand the DNA Recombinant technology.
PSO3	<ul style="list-style-type: none"> • Understand the testing of hypothesis.
PSO4	<ul style="list-style-type: none"> • Use modern Zoological tools, Models, Charts and Equipment's.
PSO5	<ul style="list-style-type: none"> • Know structure-activity relationship.
PSO6	<ul style="list-style-type: none"> • Understand good laboratory practices and safety.
PSO7	<ul style="list-style-type: none"> • Make aware and handle the sophisticated instruments/equipment.
PSO8	<ul style="list-style-type: none"> • Gain the knowledge of Zoology through theory and practical's.
PSO9	<ul style="list-style-type: none"> • Study and understand the DNA Recombinant technology.

Course Outcomes of B.Sc. (Zoology)

Class	Course title	Outcome
F.Y.B.Sc. (Paper-I)	Animal systematics and Diversity I and II	<ul style="list-style-type: none"> • Understanding of basics of Animal Classification. • Understanding of parasitology • Understanding of host and parasite relationship
F.Y.B.Sc. (Paper-II)	Fundamental of Cell Biology and Genetics	<ul style="list-style-type: none"> • Understanding of fundamentals of cell biology • Understanding of types of cells • Understanding of cell organelles • Understanding of techniques used in cell biology study • Understanding of Mendellian genetics. • Understanding of fundamentals of genetics
S.Y.B.Sc. (Paper-I)	Animal systematics and Diversity III	<ul style="list-style-type: none"> • Understanding of phylum Arthropoda, Mollusca and Echinodermata with respect to habits and habitats • Understanding of morphology and anatomy of starfish • Understanding of larval forms of above mentioned phyla • Economic importance of Arthropods and molluscs
S.Y.B.Sc. (Paper-II)	Applied zoology I	<ul style="list-style-type: none"> • Understanding of application of fishery science • Understanding of science of pest control • Understanding of different pests and their infestation
S.Y.B.Sc. (Paper-I)	Animal systematics and Diversity IV	<ul style="list-style-type: none"> • Understanding of Phylum Chordata and its classes • Understanding of general characteristics of reptiles aves and mammals. • Understanding of Scoliodon systems • Understanding of adaptations according to their habitat
S.Y.B.Sc. (Paper-II)	Applied zoology II	<ul style="list-style-type: none"> • Understanding of apiculture and sericulture • Understanding of tools and techniques used in apiculture and sericulture • Understanding of enemies of honey bees and silk moths


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DEPARTMENT OF ELECTRONIC SCIENCE

Program Outcomes (POs) for B.Sc. (Electronic Science) Program

PO1	Disciplinary Knowledge: Demonstrate comprehensive knowledge of electronic science. Execute strong theoretical and practical knowledge generated from electronics graduate program in the area of work.
PO2	Communication: Effective Communication on complex electronic science activities with the relative community and with society at large.
PO3	Problem Analysis: Identify, formulate and analyze complex problems in electronics. Solve the Problems by observing the situation and design appropriate solutions.
PO4	Scientific temper: Develop the working knowledge and applications of instrumentation and laboratory Techniques. Make the students able to apply skills to design and conduct experiments independently.
PO5	Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and ICT tools for understanding of subject knowledge.
PO6	Environment and Sustainability: Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge and need for sustainable development.
PO7	Life-long learning: Acquire the ability to engage in life-long learning independently in the broadest context of socio-technological changes.

DEPARTMENT OF ELECTRONIC SCIENCE

Program Specific Outcomes (PSOs) for B.Sc. (Electronic Science) Program

PSO1	Ability to apply knowledge of mathematics and science in solving electronics related problems
PSO2	Ability to design and conduct electronics experiments, as well as to analyze and interpret data
PSO3	Ability to design and manage electronic systems or processes that conforms to a given specification within ethical and economic constraints
PSO4	Ability to identify, formulate, solve and analyze the problems in various disciplines of electronics
PSO5	Ability to function as a member of a multidisciplinary team with sense of ethics, integrity and social responsibility
PSO6	Ability to communicate effectively in term of oral and written communication skills
PSO7	Recognize the need for, and be able to engage in lifelong learning
PSO8	Ability to use techniques, skills and modern technological/scientific/engineering software/tools for professional practices

Department of Electronic Science
B.Sc.-I
Course Outcomes 2019-20

Paper No.	Paper/Course Name	Semester-I
I	Basics of Applied Electronics	After completion of this course student will be able: <i>1. To identify different parameters/functions/specifications of components used in electronic circuits</i> <i>2. To solve problems based on network theorems.</i> <i>3. To perform simulations using simulator for analyzing network performance</i>
II	Electronic Devices and Circuits	After completion of this course student will be able: <i>1. To analyze performance parameters based on study of characteristics of electronic devices like diode, transistors etc</i> <i>2. To choose proper electronic devices as per the need of application</i> <i>3. To perform simulations for designing and analyzing diode/transistor circuits</i> <i>4. To build and test the circuits like street light controller using electronic devices</i>
Electronics Lab IA		After completion of this course student will be able <i>1. To identify different components and devices as well as their types</i> <i>2. To understand basic parameters associated with each device</i> <i>3. To know operation of different instruments used in the laboratory</i> <i>4. To connect circuit and do required performance analysis</i> <i>5. To compare simulated and actual results of given particular experiment</i>
Paper No.	Paper/Course Name	Semester-II
I	Fundamentals of Digital Electronics	After completion of this course student will be able <i>1. To solve problems based on interconversion of number systems</i> <i>2. To reduce the expression using Boolean theorems</i> <i>3. To reduce expressions using K maps in SOP and POS forms</i> <i>4. To understand how to use flip flops to build modulus counter</i> <i>5. To familiarize with applications of counters like ring counter or event counter</i>

II	Analog and Digital Device applications	<p>After completion of this course student will be able</p> <ol style="list-style-type: none"> 1. To compare different op-amps as per specifications or performance parameters 2. To understand op-amp circuits and its usefulness in different applications 3. To know operating principle of IC 555 in different configurations 4. To understand different types of DAC and their performance parameters 5. To study different types of ADC and their performance parameters
Electronics Lab IB		<p>After completion of this course student will be able</p> <ol style="list-style-type: none"> 1. To connect op-amp circuits and analyze the output 2. To build application circuits of op-amp 3. To design the output frequency of IC 555 as astable/monostable multivibrator 4. To compare simulated and actual results of given circuit

Department of Electronic Science
B.Sc.-II
Course Outcomes 2020-21

Paper No.	Paper/Course Name	Semester-III
I	Communication Electronics	<p>After completion of this course student will be able</p> <ol style="list-style-type: none"> 1. Understand different blocks in communication systems, types of noise in communication systems and its different parameters 2. Understand need of modulation, modulation process and amplitude modulation and demodulation methods 3. Analyze generation of FM Modulation and demodulation methods and comparison between amplitude and frequency modulation 4. Identify different radio receivers and their performance parameters. 5. Solve problems based on AM and FM performance parameters 6. Compare pulse modulation techniques such as PAM, PPM, PWM and compare TDM and FDM techniques used in communication 7. Understand need of sampling and sampling theorem as well as know about performance parameters of digital communication 8. Analyze difference between ASK, FSK, PSK as well as PCM and its applications
II	Digital Circuit Design	<p>After completion of this course student will be able</p> <ol style="list-style-type: none"> 1. Distinguish between different logic families based on their performance parameters 2. Analyze basic combinational logic circuits for simple applications 3. Design combinational logic circuits using K maps for identified applications 4. Design Sequential logic circuits using state diagram, excitation table for identified applications 5. Understand and compare different types of ADC and their performance parameters using data sheets/manuals 6. Understand and compare different types of DAC and their performance parameters using data sheets/manuals
III	Practical Course	<p>After completion of this course student will be able</p> <ol style="list-style-type: none"> 1. Describe and explain the techniques of generation of AM/ FM and demodulation 2. Design FSK generation using standard IC XR 2206 referring data manuals 3. Describe and explain the TDM/ FDM generation technique

		<p>4. Demonstrate PPM/PWM/PAM and PCM techniques using standard circuits in data manuals</p> <p>5. Design and build minimum complexity digital circuits using logic gates</p> <p>6. Design and analyze different combinational and sequential logic circuits using standard ICs in data manuals</p> <p>7. Design ADC/ DAC using data manuals and study its performance parameters</p>
Paper No.	Paper/Course Name	Semester-IV
I	Analog Circuit Design	<p>After completion of this course student will be able</p> <p>1. Design single/multistage amplifier using transistor and analyze their frequency response based on gain-bandwidth product due to coupling /bypass capacitors</p> <p>2. Classify and compare different power amplifiers</p> <p>3. Understand and design push pull amplifier and need of heat sinks</p> <p>4. Distinguish between Op-amp Feedback circuits based on their configurations</p> <p>5. Analyze the effect of negative and positive feedback on characteristics of Op-amp</p> <p>6. Understand and analyze the need of positive feedback in oscillator circuits</p> <p>7. Design, develop and build circuits for identified applications</p>
II	Microcontroller and Python Programming	<p>After completion of this course student will be able</p> <p>1. Identify the features and architectural details of microcontroller (ARDUINO)</p> <p>2. Write code/program using open-source programming language (ARDUINO) for basic identified applications</p> <p>3. Understand programming basics of python programming language</p> <p>4. Understand special features of python programming language such as importing modules, directory, tuples</p> <p>5. Design, build and implement applications using ARDUINO and python</p>
III	Practical Course	<p>After completion of this course student will be able</p> <p>1. Describe and explain the design procedure of different types of active filters and analyze its frequency response</p> <p>2. Demonstrate positive feedback for oscillator circuits using standard ICs</p> <p>3. Describe and explain design procedure for two stage amplifiers and application circuits</p> <p>4. Design practical circuits for identified applications</p> <p>5. Develop working setup and write programs using programming techniques of ARDUINO</p> <p>6. Demonstrate and explain interfacing hardware to ARDUINO microcontroller</p> <p>7. Solve problems using programming techniques of python</p>

Department of Electronics
B.Sc.-III
Course Outcome 2021-22

Paper No.	Paper/Course Name	Semester-V
I	Digital Design using Verilog	<p>After completing the course, the students will be able to</p> <p>1: Know and understand structure of HDL and Verilog. 2: Understand different modelling styles in Verilog. 3: Use Verilog effectively for simulation, verification and synthesis of digital system. 4: Understand basics of programmable logic devices.</p>
II	Microcontroller Architecture and Programming	<p>After completing the course, the students will be able to</p> <p>1: Understand the basics of microcontroller. 2: Acquire basic programming skills in C language. 3: Understand and acquire basic programming skills for AVR microcontroller.</p>
III	Analog circuit Design and Applications	<p>After completing the course, the students will be able to</p> <p>1: Understand basics of analog circuit design. 2: Analyze waveform generators required for testing different circuits. 3: Build application circuits using specialized ICs. 4: Design analog systems using available ICs.</p>
IV	Nanoelectronics	<p>After completing the course, the students will be able to</p> <p>1: Understand basic concepts of nano electronic devices and nano technology. 2: Understand the electron transport mechanism in nanostructures. 3: Understand techniques of characterization of nanostructures. 4: Understand different devices constructed using nanotechnology.</p>
V	Signals and Systems	<p>After completing the course, the students will be able to</p> <p>1: Know basics of electronic signals. 2: Know different types of systems. 3: Analyze systems using Laplace and Fourier analysis. 4: Understand digital signal processing system.</p>
VI	Optics and Fiber Optic Communication	<p>After completing the course, the students will be able to</p> <p>1: To acquire Knowledge of optical fiber communication system. 2: To understand different parameters of optical fibers. 3: To learn essential optical components of Fiber Optic Communication.</p>

		<i>4: To analyze and integrate fiber optical network components in variety of networking schemes.</i>
VII	Practical Course I	<p>After completing the course, the students will be able to</p> <p><i>1: Analyze different design and test procedures for analog circuits and systems.</i></p> <p><i>2: Measure different parameters of optical fiber communication systems</i></p> <p><i>3: Understand importance of product design and entrepreneurship.</i></p> <p><i>4: Develop electronic systems for given application.</i></p>
VIII	Practical Course II	<p>After completing the course, the students will be able to</p> <p><i>1: Develop and simulate design digital systems using Verilog.</i></p> <p><i>2: Design and develop AVR microcontroller-based systems.</i></p> <p><i>3: Understand different nanoelectronic devices.</i></p> <p><i>4: inculcate basic skills required for design and development of embedded Systems.</i></p>
IX	Practical Course III (Project)	<p>After completing the course, the students will be able to</p> <p><i>1: Understand basic methodology of selection of topic for project.</i></p> <p><i>2: Understand how to do literature review for selected topic for project.</i></p> <p><i>3: Apply the knowledge for design and development of the selected project.</i></p> <p><i>4: Use different software and hardware for testing, validation and verification of circuits for successful outcome of project</i></p> <p><i>5: Understand documentation process in the form of presentation and project report</i></p> <p><i>6: Understand process of systematic development of electronic system and Development of skills for successful outcome</i></p>
X	Electronic Design Automation Tools	<p>After completing the course, the students will be able to</p> <p><i>1: Design the electronics circuits using EDA software tools</i></p> <p><i>2: Simulate various analog and digital circuits using EDA software tools</i></p> <p><i>3: Plot various waveforms.</i></p> <p><i>4: Simulate basic electronic system blocks</i></p>
XI	Internet of Things and Applications	<p>After completing the course, the students will be able to</p> <p><i>1: Know the basic building blocks of IoT</i></p> <p><i>2: Know IoT protocols</i></p> <p><i>3: Understand how to Design and Develop IoT based system through case studies.</i></p>
Paper No.	Paper/Course Name	Semester-VI
I	Modern Communication Systems	<p>After completing the course, the students will be able to</p> <p><i>1: Understand the digital modulation techniques.</i></p> <p><i>2: Understand different types of pulse modulation techniques.</i></p> <p><i>3: Describe the evolution and importance of Mobile communication and cellular</i></p>

		<p>communication</p> <p>4: Know the basics of satellite communication systems.</p>
II	Embedded System Design using Microcontrollers	<p>After completing the course, the students will be able to</p> <p>1: Understand features and architecture of PIC microcontroller.</p> <p>2: Demonstrate how to interface PIC microcontroller with different peripherals</p> <p>3: Understand features and architecture of ARM microcontroller.</p> <p>4: Demonstrate embedded system using given microcontroller.</p>
III	Industrial Electronics	<p>After completing the course, the students will be able to</p> <p>1: Understand basics of semiconductor power devices.</p> <p>2: Analyze basic power electronics circuits and demonstrate applications.</p> <p>3: Understand basics of motor control.</p> <p>4: Understand basics of Electric Vehicle systems</p>
IV	Manufacturing Processes for Electronics	<p>After completing the course, the students will be able to</p> <p>1: Understand basics of Passive Electronic Component Manufacturing Processes</p> <p>2: Understand process involved in PCB manufacture and Modern Circuit Assembly</p> <p>3: Know about the Semiconductor Device and IC Fabrication Process</p>
V	Process Control Systems	<p>After completing the course, the students will be able to</p> <p>1: Familiar with different types of sensors and related systems</p> <p>2: Know different types of measurement systems.</p> <p>3: Understand control parameters in process automation.</p> <p>4: Understand different types of process control systems and their characteristics.</p>
VI	Sensors and Systems	<p>After completing the course, the students will be able to</p> <p>1: Understand basic principles and types of different sensors.</p> <p>2: Understand basic principles and types of actuators.</p> <p>3: Know about signal conditioning systems for sensors.</p>
VII	Practical Course I	<p>After completing the course, the students will be able to</p> <p>1: Demonstrate power electronic circuits.</p> <p>2: Demonstrate different types of digital communication systems,</p> <p>3: Understand working principles of different power devices and their characteristics</p>
VIII	Practical Course II	<p>After completing the course, the students will be able to</p> <p>1: Design embedded systems using PIC microcontroller.</p> <p>2: Design embedded systems using ARM microcontroller.</p> <p>3: Demonstrate PLC SCADA using ladder programming.</p> <p>4: Design and develop sensor systems for different applications.</p>

IX	Practical Course III (Project)	<p>After completing the course, the students will be able to</p> <p>1: Understand basic methodology of selection of topic for project. 2: Understand how to do literature review for selected topic for project. 3: Apply the knowledge for design and development of the selected project. 4: Use different software and hardware for testing, validation and verification of circuits for successful outcome of project 5: Understand documentation process in the form of presentation and project report 6: Understand process of systematic development of electronic system and Development of skills for successful outcome</p>
X	Design and Fabrication of PCB	<p>After completing the course, the students will be able to</p> <p>1: Understand basics of PCB. 2: Know about the PCB design technology. 3: Know about different soldering techniques.</p>
XI	Mobile Application Development	<p>After completing the course, the students will be able to</p> <p>1: Understand basics of Mobile application development. 2: Develop ability to work in android development environment. 3: Design and develop mobile applications.</p>


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**Program Outcomes, Program Specific Outcomes and Course Outcome
Department of Commerce**

Program outcome: B.Com.	
PO1.	<ul style="list-style-type: none"> • Practical Exposure that would equip the students to face the challenges in modernera in commerce and business.
PO2.	<ul style="list-style-type: none"> • The course offers a number of values based and job oriented skills to ensure thatstudents become enables to feet for every challenging situation.
PO3.	<ul style="list-style-type: none"> • Proficiency for completing various professional courses like Management,CA.,CMA.,CS.,MBA and Law
PO4.	<ul style="list-style-type: none"> • Ability to recognize the role of businessman, entrepreneurs, consultants etc.
PO5.	<ul style="list-style-type: none"> • Thorough knowledge of fundamentals of Commerce, Trade, Economics, Management etc.
PO6.	<ul style="list-style-type: none"> • Expertise in way to contribute towards the development of new practices and procedure of Administration, Banking and finance, Entrepreneurship, Marketing, Insurance, Computers, Laws, Accountancy etc.
PO7.	<ul style="list-style-type: none"> • Students become competent to demonstrate the role of Accountant, Manager, Advisor, Analyzer etc. in society and business.
PO8.	<ul style="list-style-type: none"> • Learners will be able to do higher education and advance research in the field ofcommerce and finance.

Program Specific outcome: B.Com.

PSO1.	<ul style="list-style-type: none">• To develop numerical abilities of students
PSO2.	<ul style="list-style-type: none">• To develop business language abilities of students
PSO3.	<ul style="list-style-type: none">• To inculcate writing skills and Business correspondence.
PSO4.	<ul style="list-style-type: none">• To create awareness of Law and Legislations related to commerce and business.
PSO5.	<ul style="list-style-type: none">• To introduce recent Trends in Business, Organizations and Industries.
PSO6.	<ul style="list-style-type: none">• To inform about Business Environment of Country as well as World
PSO7.	<ul style="list-style-type: none">• To acquire practical skills related with commerce, trade, banking and finance.
PSO8.	<ul style="list-style-type: none">• To provide a platform for overall development of students and Develop knowledge level and awareness of students about Recent Trends of World.

Courses Outcome: B.Com

Class	Course	Outcomes
F.Y.B.Com.	102 Financial Accounting.	<ul style="list-style-type: none"> • Students acquainted with the knowledge of various accounting concepts. • Students become knowledgeable about accounting procedures, methods and techniques. • Acquaint them with practical approach to accounts writing by using software package e.g. Tally ERP-9, SAP etc.
	104 (A) Business Mathematics and Statistics	<ul style="list-style-type: none"> • Students are prepared for competitive examinations by inculcating them with the concept of Simple interest, compound interest and the concept of EMI. • Imparted the concept of shares and to calculate Dividend, concept of population and sample. • They knew how to calculate various types of averages and variations along with the application of profit and loss in business.
	104 (B) Computer Fundamentals	<ul style="list-style-type: none"> • Students get knowledge about the Computer environment and the basics of Operating System, basics of Network, Internet and related concepts. • Students become aware about applications of Internet in Commerce. • Enable students to develop their own web site.
	105 Organizational Skill Developments	<ol style="list-style-type: none"> 1. On successful completion of this subject the students acquires the Knowledge about the various types of business organizations, office management and related practices.
	106 Essentials of E-Commerce	<ul style="list-style-type: none"> • Students become familiar with the mechanism of conducting business transactions through electronicmedia. • Students are able to explain various components of e-commerce, understand the dynamics of e-commerce, appreciate the Internet technology and its utility in commercial activities, understand the methodology of online business dealings using e-commerce infrastructure

	106 B Insurance and Transport	<ul style="list-style-type: none"> • Students become knowledgeable on various insurance aspects And the importance of transport facility to a business.
F.Y.B.Com.	106 C Marketing and Salesmanship (Fundamentals of Marketing)	<ul style="list-style-type: none"> • On successful completion of this course the students should get the practical knowledge and the tactics in the marketing
	106 D Consumer Protection and Business Ethics	<ul style="list-style-type: none"> • The students have understood consumer motivation and Perception, Learnt consumer protection act 1986.
	106 E Business Environment & Entrepreneurship	<ul style="list-style-type: none"> • With this subject students are motivated to make their mind set for taking up entrepreneurship as a career.
S.Y.B.Com.	201 Business Communication	<ul style="list-style-type: none"> • Students will able to communicate in the language of business. • Developing intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioral attitude through literary subjects and shaping the students socially responsible citizens.
	202 Corporate Accounting	<ul style="list-style-type: none"> • To enable the students to be aware on the Corporate Accounting inconformity with the provision of the Companies Act 2013. • After the successful completion of the course the student should have a thorough knowledge on the accounting practiceprevailing in the Corporate world.
	204 Business Management	<ul style="list-style-type: none"> • The students get the understandings of Principles & Functions of Management, Process of decision making,and modern trends in management process.
	205 Elements of Company Law	<ul style="list-style-type: none"> • Enlighten the students' knowledge on Companies Act 2013 and Secretarial practices.
	206 A Business Administration	<ul style="list-style-type: none"> • Students are inculcated with the basic knowledge about various forms of business organizations, business environment and its implications thereon. • They will be able to aware with the latest trends in business.
	206 E Cost and Works Accounting	<ul style="list-style-type: none"> • Enables the students to inculcate knowledge on Cost sheet, Material issues, Labour cost, Financial statement analysis, Budgeting etc.
	206 G Business Entrepreneurship	<ul style="list-style-type: none"> • The student will be well versed in Concept relating to Entrepreneur and knowledge in the finance institution.
	206 H Marketing Management	<ul style="list-style-type: none"> • Enable the student to understand the Principles of marketing management, market segmentation Product life cycle, pricing, branding etc.
	206 K Insurance Transport and Clearance	<ul style="list-style-type: none"> • Aquatint skills needed to manage insurance business, the importance of insurance and tourism

		to a business.
	206 L Computer Programming and Application	<ul style="list-style-type: none"> • Students learn to use VBScript, transform Web pages from static text and images into functional, interactive, and dynamic e- commerce tools. • They Learn to embed VBScript code in an HTML document, use VBScript operators; write code that makes decisions based on existing conditions, using control structures and loops, Web page visitor using Message and Input boxes, use the DOM to control the layout of HTML pages, add effects, and get information from users.

Class	Course	Outcomes
T.Y.B.Com.	301 Business Regulatory Framework (Mercantile Law)	<ul style="list-style-type: none"> • Enables to inculcate knowledge on various laws relating to business such as law of contract, law of sale of goods, law of agency, Negotiable Instruments Act etc.
	302 Advanced Accounting.	<ul style="list-style-type: none"> • Providing entire coverage of advanced accountancy. • Acquired knowledge on preparation of departmental accounts with respect to Apportionment of overheads.
	304 Auditing & Taxation	<ul style="list-style-type: none"> • Creating basic conceptual knowledge about the auditing principles. • Understanding the basic concepts and to acquire knowledge about Computation of Income, Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961.
	305 A Business Administration Special Paper II	<ul style="list-style-type: none"> • Acquaint the students with basic concepts & functions of HRD and nature of Marketing functions of a business enterprise
	305 E Cost and Works Accounting Special Paper II	<ul style="list-style-type: none"> • The students get a thorough knowledge on the cost accounting principles and the methods of cost accounting.
	305 G Business Entrepreneurship Special Paper II	<ul style="list-style-type: none"> • Acquainted the students with the basic concepts of entrepreneurship and preparing a business plan to start a small industry and developed the Knowledge and understanding in creating and managing new ventures.

T.Y.B.Com.	305 H Marketing Management Special Paper II	<ul style="list-style-type: none"> • Enable the students to understand the Principles of marketing management, market segmentation Product life cycle, pricing, branding, advertising, sales promotions, marketing research and CRM.
	305 K Insurance Transport and Clearance Special Paper II	<ul style="list-style-type: none"> • Promoting the awareness of Insurance Business & practices by making they learn the various regulations relating to Life Insurance & General Insurance.
	305 I Computer Programming and Application Special Paper II	<ul style="list-style-type: none"> • Inculcate knowledge on Networking concepts and technologies like wireless, broadband and Bluetooth. • Meet the security requirements of the SLAs and other external requirements further to contracts, legislation and externally imposed policies.
	306 A Business Administration Special Paper III	<ul style="list-style-type: none"> • Acquaint the students with the basic concepts in finance and production functions of a business enterprise
	306 E Cost and Works Accounting	<ul style="list-style-type: none"> • Imparted the knowledge regarding costing techniques, concepts, procedures and legal Provisions of cost audit
	306 G Business Entrepreneurship Special Paper III	<ul style="list-style-type: none"> • Students are aware to develop the Knowledge and understanding of behavioral aspects of entrepreneurship. Through studying the autobiographies of various entrepreneurs.
	306 H Marketing Management Special Paper III	<ul style="list-style-type: none"> • Enable to inculcate the knowledge of brand and Distribution Management in marketing plus making them aware about importance of control on marketing activities
	306 K Insurance Transport and Clearance Special Paper III	<ul style="list-style-type: none"> • Students understand the significance of travel and tourism industry. • They study the functions and working of various Travel Organizations. • Understand the concept of marketing mix and recent trends with Global Tourism and Transport Business.
	306 I Computer Programming and Application Special Paper III	<ul style="list-style-type: none"> • Students understand the software project management and project planning also show how graphical schedule representations are used by project management and the risk management process.

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Arts, Science & Commerce College
Shirsondi, Tal. Malegaon (Nashik)



PRINCIPAL
Arts, Science & Commerce College
Shirsondi Tal. Malegaon (Nashik)

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of Economics

Program Outcome: B.A./B.Com (Economics)	
PO1	<ul style="list-style-type: none">• Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	<ul style="list-style-type: none">• Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	<ul style="list-style-type: none">• Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	<ul style="list-style-type: none">• Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	<ul style="list-style-type: none">• Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	<ul style="list-style-type: none">• Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	<ul style="list-style-type: none">• Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio- technological changes.

Department of Economics

Program Specific Outcomes: B.A. (Economics)	
PSO1	<ul style="list-style-type: none">• Knowledge of Economic System: An ability to understand economic theories and functioning of basic microeconomic and macroeconomic systems.
PSO2	<ul style="list-style-type: none">• Statistical and Mathematical Skills: Acquaint with collection, organization, tabulation and analysis of empirical data. Ability to use basic mathematical and statistical tools to solve real economic problems.
PSO3	<ul style="list-style-type: none">• Econometric Applications: Acquaint with basic and applied econometric tools and methods used in economics. The aim of this course is to provide a foundation in applied econometric analysis and develop skills required for empirical research in economics. It also covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models.
PSO4	<ul style="list-style-type: none">• Development Perspectives: Delineate the developmental policies designed for developed and developing economics. The course also acquaint with the measurement of development with the help of theories along with the conceptual issues of poverty and inequalities.
PSO5	<ul style="list-style-type: none">• Environmental Strategy and Management: This course emphasizes on environmental problems emerging from economic development. Economic principles are applied to valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments.
PSO6	<ul style="list-style-type: none">• Perspectives on Indian Economy: Acquaint with basic issues of Indian economy and learn the basic concept of monetary analysis and financial marketing in Indian financial markets. This course reviews major trends in economic indicators and policy debates in India in the post-Independence period.
PSO7	<ul style="list-style-type: none">• Knowledge of Banking and Financial System: To develop a deep understanding of financial system and theories to work proficiently with financial markets, institutions, instruments and regulatory framework. Inculcate skills for practical application in the field of corporate finance, investment banking & management, financial services, risk management etc.

Course Outcome Department of Economics

Class	Course	Outcome
F. Y. B. A.	Indian Economic Environment	<ul style="list-style-type: none"> • Understand nature, Basic Characteristics and Major issues of Indian economy • Understand population & economic development • Understand Poverty and Unemployment Concepts and their trends in Indian economy • Understand role of agriculture, industrial sector in Indian economy. • Understand economic planning in India • Understand Salient Features of Economy of Maharashtra. • Understand Role of Co-operative in Economic Development of Maharashtra. • Understand Regional Imbalance Causes & Preventive Measures.
S. Y. B. A.	Financial System	<ul style="list-style-type: none"> • Create the awareness among the students of Modern Banking System. • Understand commercial banking system in India • Understand working & operation of RBI • Understand new development in Indian financial system periods • Understand cooperative and rural banking in India • Understand non-banking financial institutions & financial services in India • Understand the Indian money market • Understand the Indian capital market • Able to understand international aspects of the Indian financial system
S. Y. B. A.	Micro Economics	<ul style="list-style-type: none"> • Student is expected to understand the behaviour of an economic agent, namely, a consumer, a producer, a factor owner and the price fluctuation in a market. • To understand nature and scope of economics, the theory of consumer behaviour, analysis of production function and equilibrium of a producer, the price formation in different markets structures and the equilibrium of a firm and Industry. • Understand concept of Revenues and cost of Production. • Understand Linear & Non- Linear functional relationship • Understand price determination of factors (Rant, wages, interest and Profit.) • Understand meaning of social welfare function.

S. Y. B. A.	Macro Economics	<ul style="list-style-type: none"> • Understand macro-economic analysis • Understand of national income • Understand classical & Keynesian theories of output and employment • Understand consumption & Investment function • Understand process of credit creation by commercial banks • Understand Quantity theory of money. • Understand various macroeconomic problems. • Understand various macroeconomic policies
T. Y. B. A.	Indian Economic Development	<ul style="list-style-type: none"> • Understand the differences between Economic growth and Development, Indicators of Economic Development. • Understand Characteristics of Developing Countries. • Understand Constraints on Development Process. • Understand theories and Approaches of economic development. • Understand some growth models • To understand macroeconomic policies, roll of foreign capital and economic planning etc. in developing countries.
T. Y. B. A.	International Economics	<ul style="list-style-type: none"> • Understand Nature, Scope and Importance of International Economics • Understand theories international trade. • Understand gains from international trade & their measurements • Understand theory of intervention in trade • Understand the theory of regional blocks • Understand trade policies in India • Understand international financial institutions • Understand foreign direct investments • Understand foreign exchange market
T. Y. B. A.	Public Finance	<ul style="list-style-type: none"> • Understand Functions and Role of Government in Economy and Meaning, Nature, Scope & Importance's of public finance. • To understand various Approaches about Role of Government and Principle of Maximum Social Advantage- Dr. Dalton. • Understand concept of public expenditure • Understand concept of public revenue • Understand incidence & approaches of taxation • Understand concept of public debt • Understand concept of budget & deficit finance • Understand taxation & public debt of India • Understand fiscal federalism in India

IQAC Coordinator
Arts, Science & Commerce College
Shirsondi, Tal. Malegaon (Nashik)



PRINCIPAL
Arts, Science & Commerce College
Shirsondi Tal. Malegaon (Nashik)

**Program Outcomes, Program Specific Outcomes and Course Outcome
Department of Geography**

Program outcome: B.A./B.Com (Geography)	
PO1.	<ul style="list-style-type: none">• Define and develop the interdisciplinary approach through the study of Geography
PO2.	<ul style="list-style-type: none">• Enhance employability and entrepreneur skills among the students.
PO3.	<ul style="list-style-type: none">• Demonstrate and appreciate the importance of diverse cultural, economic, regional, and resources perspective.
PO4.	<ul style="list-style-type: none">• Realization the importance of relation between Geography and various branches of Humanities, mental moral sciences.
PO5.	<ul style="list-style-type: none">• Demonstrate and understand the important concept and theories in the field of Geography.

Program Specific outcome: B.A. (Geography)

PSO1.	<ul style="list-style-type: none">• Demonstrate knowledge of physical and cultural features of the earth surface.
PSO2.	<ul style="list-style-type: none">• Define basic disciplines of Geography and its sub branches.
PSO3.	<ul style="list-style-type: none">• Discuss the basic concepts and terminologies used in Geography like interior of the earth, plate tectonic, sea floor spreading, population growth, disasters, composition and structure of atmosphere, hydrosphere, etc.
PSO4.	<ul style="list-style-type: none">• Distinguish between minerals and rocks, weather and climate, interior of the earth, basic industries, farming etc.
PSO5.	<ul style="list-style-type: none">• Describe the causes and effects of local, national and international problems like global warming, acid rain, ozone depletion, soil degradation, deforestation etc.

**Course Outcomes of B.A.
(Geography)**

Class	Course title	Outcome
F.Y.B.A.	Gg-110 (A) Physical Geography	<ul style="list-style-type: none"> • Define the terms • Explain the concepts and components of Physical Geography • Learn the structure of earth. • Explain the theories to understand the earth structure. • Learn the components of atmosphere. • Learn the components of Hydrosphere.
F.Y.B.A.	Gg-110 (B) Human Geography	<ul style="list-style-type: none"> • Define the terms • Explain the concepts and components of Human Geography • Explain the factors influencing the distribution of Population. • Types of rural settlement and identify various pattern of settlement. • Explain the factors affecting on agricultural activity. • Solve the problems of Indian agriculture.
F.Y.B.Com.	115C(I) & 125 C(II) Elements of Commercial Geography	<ul style="list-style-type: none"> • Study the Human Economic Activities • Explain the Weber theory of Industrial Location • Understand the mineral and power resources • Study conventional and non-conventional energy resources • Study of the distribution of Iron and Steel, Automobile, Cotton Paper and Ship Building Industries in India • Get knowledge about types of agriculture, trade and Transport. • Aware the student about need of conservation and Protection of natural resources. • Study of Transport and Trade • Understand the concept of Privatization, Globalization and Liberalization • Cartographic Techniques of Data Representation and Maps

Class	Course title	Outcome
SYBA	Gg-201 Practical Geography (I) (Scale & Map Projections) (II) (Cartographic Techniques, Surveying and Excursion / Village / Project Report)	<ul style="list-style-type: none"> • Define map scale and projection • Apply practical skill to use the map scale and projection • Learn the new techniques, accuracy and the skills of map making • Acquired the Plan Table and Prismatic Compass Surviving techniques. • Known the components and function of GPS • Acquired Skills of handling GPS and Conducted GPS Survey • Measure Map Scales, conversion of scales • Understand types of projections • Preparation of various graphs and diagrams • Get knowledge about Statistical Methods. • Understand the different surviving techniques like, Plane Table, prismatic survey. • Acquire knowledge of preparation of drawing of profile with the help of Dumpy level. • Understand the socio economic condition of the villages.
SYBA	GG 210-A and B Economic Geography	<ul style="list-style-type: none"> • Study the Human Economic Activities • Explain the Weber theory of Industrial Location • Understand the mineral and power resources • Study conventional and non-conventional energy resources • Study of the distribution of Iron and Steel, Automobile, Cotton Paper and Ship Building Industries in India • Get knowledge about types of agriculture, trade and Transport. • Aware the student about need of conservation and • Protection of natural resources. • Study of Transport and Trade • Understand the concept of Privatization, Globalization and Liberalization
SYBA	GG220 A & B Population Geography- (I & II)	<ul style="list-style-type: none"> • To understand the history of population • Introduced the basic concept of Population geography • Introduced the types of population data.

TYBA	Gg.310 A&B Geography of Disaster Management- (I&II)	<ul style="list-style-type: none"> • To introduce students the concept of disaster & its relation with Geography. • To acquaint the students with the utility & application of hazards in different areas & its management. • To make the students aware of the need of protection & disaster management • To make the awareness among the students about the climatic disaster and their Management. • To understand the students about the geological and geomorphic disaster • To understand the students about the anthropogenic disaster and their management • To understand the students regarding the global issues
TYBA	Gg.320 - A &B- (DSE 1C& D) Geography of India- (I &II)	<ul style="list-style-type: none"> • To acquaint the students with geography of our Nation. • To make the student aware of the magnitude of problems and Prospects at National level. • To help the students to understand the inter relationship between the subject and the society. • To help the students to understand the recent trends in regional studied
TYBA	Gg-301-A &B- (DSE 2 C& D) Techniques of Spatial Analysis (I&II)	<ul style="list-style-type: none"> • To make students aware of techniques of geographical analysis, skill of SOI Toposheet Interpretation. • To make students aware of Aerial Photographs and satellite Images and interpretation with help of Computer software. • Students understand the Observation and Identification of Geographical Features and preparation of a Brief Report on it. • To make aware about the open source software and techniques of visualization. • To make students aware of techniques of geographical analysis. • To make students aware of Geographical data and basic analysis of data. • To understand the Central Tendency and Application of test in geographical data. • To understand the Observation of Geographical Problem/Socio economic condition and prepare a report on it.


 IQAC Coordinator
 Arts, Science & Commerce College
 Shirsondi, Tal. Malegaon (Nashik)




 PRINCIPAL
 Arts, Science & Commerce College
 Shirsondi Tal. Malegaon (Nashik)

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of English

Program outcome: B.A./B.Sc./B.Com/B.Voc. (English)	
PO1	<ul style="list-style-type: none">• Communicate in English language fluently and effectively.
PO2	<ul style="list-style-type: none">• Demonstrate the knowledge and understanding of English language and texts in English.
PO3	<ul style="list-style-type: none">• Understand literary texts in English
PO4	<ul style="list-style-type: none">• Understand and apply critical theories and texts in English.
PO5	<ul style="list-style-type: none">• Understand the phonology, morphology, syntax, semantics and pragmatics of English language.

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of English

Program Specific Outcome: B.A./B.Sc./B.Com/B.Voc. (English)	
PSO1	<ul style="list-style-type: none">• Communicate in English language fluently and effectively.
PSO2	<ul style="list-style-type: none">• Demonstrate the knowledge and understanding of English language and texts in English.
PSO3	<ul style="list-style-type: none">• Understand literary texts in English
PSO4	<ul style="list-style-type: none">• Understand and apply critical theories and texts in English.
PSO5	<ul style="list-style-type: none">• Understand the phonology, morphology, syntax, semantics and pragmatics of English language.

**Program Outcomes, Program Specific Outcomes and Course Outcome
Department of English**

Course Outcomes of BA (Subject)

Class	Course title	Outcome
F.Y.B.A.	Compulsory English	<ul style="list-style-type: none"> • Students have acquainted with prose and poem • Students have been exposed to different cultural experiences and developed humane values • Students have improved their linguistic skills in English • Students have learnt various communication skills
F.Y.B.A.	Optional English (I)	<ul style="list-style-type: none"> • Students have understood literary devices employed in short story • Students have learnt the components of a literary piece and approaches of literature • Students have been familiarized with different genres of short story • They have followed technical aspects of short story writing
F.Y.B.Com.	Compulsory English	<ul style="list-style-type: none"> • Students have acquainted with prose and poem • Students have been exposed to different cultural experiences and developed humane values • Students have improved their linguistic skills in English • Students have learnt various communication skills
F.Y.B.Com.	Additional English	<ul style="list-style-type: none"> • Students have acquainted with prose and poem • Students have been exposed to different cultural experiences and developed humane values • Students have improved their linguistic skills in English • Literary sensibilities

S.Y.B.A.	Compulsory English	<ul style="list-style-type: none"> • Students have developed competence for self-learning • Students have familiarized with prose and poetry in English • Students have developed interest in literary pieces • Students have developed humane values • Students have learnt advanced Grammatical Concepts • Students have also mastered important written skills such as paragraph writing, report writing & letter writing
S.Y.B.A.	Optional English-I	<ul style="list-style-type: none"> • Students have understood literary devices employed in short story • Students have learnt the components of a literary piece and approaches of literature • Students have been familiarized with different genres of short story • They have followed technical aspects of short story writing • Students have learnt advanced concepts in linguistics
S.Y.B.A.	Special English-I	<ul style="list-style-type: none"> • Students have been acquainted with Shakespearean plays esp. tragi-comedy with reference to The Merchant of Venice • Students have understood features of Naturalistic and Realistic Theatre with reference to ADoll's House • Students have learnt about Indian Dramas in English
S.Y.B.A.	Special English-II	<ul style="list-style-type: none"> • Students have learnt new terminology in poetry criticism • Students have learnt to appreciate poems • Students' aesthetic sense have improved • Students are able to read, appreciate and critically evaluate the poetry independently
S.Y.B.Sc. (Paper-I)	Additional English	<ul style="list-style-type: none"> • Students have acquainted with prose and poem • Students have been exposed to different cultural experiences and developed humane values • Students have improved their linguistic skills in English • Students have learnt various communication skills
S.Y.B.Sc. (Computer Science)	Compulsory English	<ul style="list-style-type: none"> • Students have acquainted with prose and poem • Students have been exposed to different cultural experiences and developed humane values • Students have improved their linguistic skills in English • Students have learnt various communication skills


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 Arts, Science & Commerce College
 Shirsondi, Tal. Malegaon (Nashik)




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 Shirsondi Tal. Malegaon (Nashik)

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of Hindi

Program outcome: B.A./B.Com (Hindi)	
PO1.	<ul style="list-style-type: none">Realized the importance of literature in creating aesthetic, mental, moral, intellectual development of an individual and society.
PO2.	<ul style="list-style-type: none">Students are able to write on various aspects in literature, social, economic political, environmental issues in the form of story, poetry, research articles, reports, etc. in various periodicals & journals.
PO3.	<ul style="list-style-type: none">Students are able to know social issues in order to create social awareness with the help of literature.
PO4.	<ul style="list-style-type: none">Gained the ability to criticise the literature and to understand social issues and able to suggest remedies to improve social life.
PO5.	<ul style="list-style-type: none">Understand the co-relation of society and literature.
PO6.	<ul style="list-style-type: none">Able to express social values in the form of articles, novels, stories, etc.
PO7.	<ul style="list-style-type: none">Developed various communication skills such as reading, listing, speaking, etc., which will help in expressing ideas and views clearly and effectively.

Program Specific Outcome: B.A. (Hindi)

PSO1.	<ul style="list-style-type: none">• Develop attitude of literary forms. (Hindi Poetry& Fiction)
PSO2.	<ul style="list-style-type: none">• Develop reading, writing & communication skills of students.
PSO3.	<ul style="list-style-type: none">• Get information about the history of ancient, medieval and modern Hindi literature.
PSO4.	<ul style="list-style-type: none">• Understand the basic concept and trends of literature.
PSO5.	<ul style="list-style-type: none">• Get information about modern trends of literature.
PSO6.	<ul style="list-style-type: none">• Develop various skill of Hindi Language.
PSO7.	<ul style="list-style-type: none">• Applications of translation and Prayojanmulak Hindi concepts.
PSO8.	<ul style="list-style-type: none">• To enhance language and skill.
PSO9.	<ul style="list-style-type: none">• The latest development of literary works in the world and within the country.

Program Outcomes, Program Specific Outcomes and Course Outcome
Department of Hindi
Course Outcomes of B.A. (Hindi)

Class	Course	Outcomes
F.Y.B.A.	11091 Vaiklpik Hindi	<ul style="list-style-type: none"> • Develop interest in literature, fiction and poetry. • Develop Hindi reading and linguistic comprehension of students. • Make special use of language for their expression. • Understand the basic forms of fiction and poetry. • Introduce to the minor genres such as Internet, Facebook, Computer, What sup, Twitter. • Know the new trends study of Advertisement writing.
F.Y.B.A.	12092 Vaiklpik Hindi	<ul style="list-style-type: none"> • Develop interest in literature, fiction and poetry. • Develop Hindi reading and linguistic comprehension of students. • Make special use of language for their expression. • Understand the basic forms of fiction and poetry.
F.Y.B.com	117C Optional Hindi	<ul style="list-style-type: none"> • Develop the comprehensive ability. • Inculcate moral and human values within themselves. • Introduce to the minor genres such as Internet, Facebook, and Computer. • Get information about Hindi Literature Forms.
F.Y.B.com	127C Optional Hindi	<ul style="list-style-type: none"> • Develop the comprehensive ability. • Inculcate moral and human values within themselves. • Introduce to the minor genres such as Internet, Facebook, and Computer.
S.Y.B.A	23093 Aadhunik Kahani Kayva tatha Vyavaharik Hindi	<ul style="list-style-type: none"> • Understand the types of Hindi Short story writing. • Develop literary tendencies • Introduce to the minor genres such as Poem, Story and Hindi Prose. • Get introduction of Hindi writer.
S.Y.B.A	24093 Aadhunik kavya Vyangya sahitya tatha Vyavaharik Hindi	<ul style="list-style-type: none"> • Understand the types of Vyangya Sahitya writing. • Develop literary tendencies. • Introduce to the minor genres such as Poem, and hindi Prose.

S.Y.B.A	23092 Madhyayugin Kavya tatha Upnyas Sahitya	<ul style="list-style-type: none"> • Understand the basic forms of fiction and poetry. • Get information about Sant poet & their Literature. • Get information Well Known poet Sant Kabeer, Mirabai • Get information Well Known Writer Mamta Kaliya.
S.Y.B.A.	24092 Madhyayugin kavya tatha Natak Sahitya	<ul style="list-style-type: none"> • Understand the basic forms of poetry and drama. • Get information about Sant poet & their Literature. • Get information Well Known poet Rahim, Bihari . • Get information Well Known Writer Mannu Bhandari.
S.Y.B.A	23091 Kavyashastra	<ul style="list-style-type: none"> • Know Indian Poetry structure in ancient and modern era. • Know the importance of criticism • Increase vision regarding literary value. • Know the concept and process of literature.
S.Y.B.A.	24091 Sahitya Ke Bhed	<ul style="list-style-type: none"> • Know Indian Poetry structure in ancient and modern era. • Know the importance of criticism • Increase vision regarding literary value. • Know the concept and process of literature.
T.Y.B.A	35091 Hindi Sahitya Ka Itihas	<ul style="list-style-type: none"> • Introduce to the minor genres such as One Act Play, Essay and Hindi Prose • Study Grammar which acquainted them to the correct usage language. • Use literature to develop their social and moral sense in life.
T.Y.B.A	36091 Hindi Sahitya Ka Itihas	<ul style="list-style-type: none"> • Introduce to the minor genres such as One Act Play, Essay and Hindi Prose • Study Grammar which acquainted them to the correct usage language. • Use literature to develop their social and moral sense in life.
T.Y.B.A	35092 BhashaVidyan	<ul style="list-style-type: none"> • Get acquainted with Hindi grammatical forms and functions. • Get acquainted with morphological concepts and processes. • Get acquainted with the basic concepts in syntactic and semantic levels of Hindi language. • Know the importance of language in human life. • Understand the communication process and method
T.Y.B.A	36092 Hindi Bhasha or Uska Vikas	<ul style="list-style-type: none"> • Get acquainted with Hindi grammatical forms and functions. • Get acquainted with morphological concepts and processes. • Get acquainted with the basic concepts in syntactic and semantic levels of Hindi language. • Know the importance of language in human life. • Understand the communication process and method

T.Y.B.A.	35093 Kathetar Vidhayen	<ul style="list-style-type: none"> • Introduce the modern forms of hindi prose-Rekhachitr. • Introduce the modern forms of hindi prose-Sansmaran. • Get introduction of Hindi writer. • To know and improve importance of summery writing skill.
T.Y.B.A.	36093 Gajhal Vidyayen Or Patrachar	<ul style="list-style-type: none"> • Introduce the modern forms of hindi prose-Hindi Gajhal. • Deference in Hindi and Urdu Gajhal. • Get introduction of Hindi Gajhal Poet. • To know forms and importance of official letters.


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 Arts, Science & Commerce College
 Shirsondi Tal. Malegaon (Nashik)

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of History

Program Outcome: B.A. (History)	
PO1.	<ul style="list-style-type: none">• The students acquire knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough
PO2.	<ul style="list-style-type: none">• The B.A. graduates will be acquainted with the social, economic, historical, geographical, political, ideological and philosophical tradition and thinking
PO3.	<ul style="list-style-type: none">• The program also empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice.
PO4.	<ul style="list-style-type: none">• The B. A. program enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.
PO5.	<ul style="list-style-type: none">• The students will be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever
PO6.	<ul style="list-style-type: none">• Programme provides the base to be the responsible citizen

Program Outcomes, Program Specific Outcomes and Course

OutcomeDepartment of History

Program Specific Outcome: B.A. (History)	
PSO1.	<ul style="list-style-type: none">• Demonstrate thinking skills by analyzing, synthesizing, and evaluating historical information from multiple sources.
PSO2.	<ul style="list-style-type: none">• Develop the ability to distinguish between fact and fiction while understanding that there is no one historical truth.
PSO 3.	<ul style="list-style-type: none">• To learn foundation of Delhi Sultanate and Sultanate Administration.
PSO 4.	<ul style="list-style-type: none">• It will enable students to develop the overall understanding of the Modern World.
PSO 5.	<ul style="list-style-type: none">• The students will get acquainted with the Renaissance, major political, socio-religious and economic developments during the Modern World.
PSO 6.	<ul style="list-style-type: none">• It will enable students to understand the significance of the intellectual, economic, political developments in the Modern World.

Program Outcomes, Program Specific Outcomes and Course Outcome
Department of History

Course Outcomes of B.A. (History):

Class	Course	Outcome
F.Y.B.A	GENRAL PAPER (G-1) Early India: From Prehistory to the Age of the Maurya's	<ul style="list-style-type: none"> • Students will be able to examine institutional basis of Ancient India. • Student will learn the sources of the history of ancient India. • Student will learn about the Paleolithic life. • Student will learn about social, economic, religious and political life in ancient India. • Student will learn about art, architecture and scientific progress in ancient India.
	GENRAL PAPER (G-1) Early India: Post Mauryan Age to the Rashtrakutas	<ul style="list-style-type: none"> • Student will learn the sources of the history of ancient India. • Student will learn about the concept of 'state' in ancient India. • Student will learn about social, economic, religious and political life in ancient India. • Students will be able to illustrate the development of empire.
S.Y.B.A	GENRAL PAPER (G-2) History of the Marathas: (1630-1707)	<ul style="list-style-type: none"> • Students will be able to explain the Socio - economic, cultural and Political background of 17th Century Maharashtra • Student will develop the ability to analyses sources for Maratha History. • Student will learn significance of regional history and political foundation of the region. • It will enhance their perception of 17th century Maharashtra and India in context of Maratha History. • Appreciate the skills of leadership and the administrative system of the Marathas.
	GENRAL PAPER (G-2) History of the Marathas: (1707-1818)	<ul style="list-style-type: none"> • Students will be able to analyze the Marathas policy of expansionism and its consequences. • They will understand the role played by the Marathas in the 18th century India. • They will be acquainted with the art of diplomacy in the Deccan region. • It will help to enrich the knowledge of the administrative skills and profundity of diplomacy.

Class	Course	Outcome
S.Y.B.A	SPECIAL PAPER (S-1) Medieval India: Mughal Period	<ul style="list-style-type: none"> • Draws comparisons between policies of different rulers. • Understanding Role of Akbar in the consolidation of Mughal rule in India. • Understand Aurangzeb's conflict with Rajput as, Maratha and weakening Mughals age. • Analyses factors which led to the emergence of new religious ideas and movements (bhakti and Sufi)
	SPECIAL PAPER (S-2) Glimpses of the Modern World – Part II	<ul style="list-style-type: none"> • It will enable students to develop the overall understanding of the Modern World. • The students will get acquainted with the major nationalist movements, the World War II and its consequences, the Cold War and its Consequences. • It will enhance their overall perception of the history of the Modern World. • It will enable students to understand the significance of the strategic political developments in the Modern World.


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 Arts, Science & Commerce College
 Shirsondi, Tal. Malegaon (Nashik)




 PRINCIPAL
 Arts, Science & Commerce College
 Shirsondi Tal. Malegaon (Nashik)

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of Political Science

Program outcome : B.A. (Political Science)	
PO1	<ul style="list-style-type: none">• To develop academic proficiency in the sub fields of Indian government and Politics, Comparative government, International Relations. Public Administration, Political Theory and Political Ideology.
PO2	<ul style="list-style-type: none">• To develop and be able to demonstrate skills in conducting as well as presenting research in political science
PO3	<ul style="list-style-type: none">• To analyze political and policy problems and formulate policy options.
PO4	<ul style="list-style-type: none">• Students enable to discuss the major theories and concepts of political science and its subfields, and also deliver thoughtful and well-articulated presentations of research findings.

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of Political Science

Program Specific outcome : B.A. (Political Science)	
PSO1	<ul style="list-style-type: none">• Serve as a politician
PSO2	<ul style="list-style-type: none">• Work as a teacher in colleges, schools and high schools
PSO3	<ul style="list-style-type: none">• Serve as political party member, political adviser, and well citizen of India.
PSO4	<ul style="list-style-type: none">• Work in elections and political as well as administrative system.
PSO5	<ul style="list-style-type: none">• Serve in forest department as forest conservator.
PSO6	<ul style="list-style-type: none">• Can admit to MA Politics, LLB, MSW, MBA,
PSO7	<ul style="list-style-type: none">• Work in NGOs.
PSO8	<ul style="list-style-type: none">• Can Prepare for Competitive exams.

**Program Outcomes, Program Specific Outcomes and Course Outcome
Department of Political Science**

Course Outcomes of BA (Political Science)

Class	Course title	Outcome
F.Y.B.A.	Introduction to Indian Constitutions (G-1)	<ul style="list-style-type: none"> • Students enable to understand the philosophy of Indian constitutions. • Students enable to identify the causes, impact of British colonial rule. • Students enable to appreciate the various phases of Indian national movement. • Students enable to create value in young youth regarding the patriotism. • Students enable to understand the various Government of Indian acts their provision and reforms. • Students enable to know the salient features in making of Indian constitution • Students enable to appreciate the socio-economic political factors which lead to the freedom struggle. • Students enable to appreciate the fundamental rights and duties and the directive principle of state policy • Students enable to evaluate the evolution, functioning and consequences of political parties in India. • Students enable to identify how electoral rules and procedure in India effect election outcomes. • To familiarize students with the working of the constitutions of India
S.Y.B.A.	Political Theory and Concept (G- 2)	<ul style="list-style-type: none"> • Students enable to understand the nature and scope of political theory. • Students enable to understand the significance of political theory. • Students enable to acquaint with the theories, approaches, concepts and principles of political theory. • Students enable to appreciate the procedure of different theoretical ideas in political theory. • Students enable to Interpret and assess information regarding a variety of political theory. • Students enable to understand the various traditional and modern theories of political science.

		<ul style="list-style-type: none"> • Students enable to evaluate the theories of origin of the state.
S.Y.B.A.	Western Political Thought (S-1)	<ul style="list-style-type: none"> • Examine political thought through the Classical, Renaissance, and Enlightenment periods based on the works of Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Tocqueville, and Marx; • Compare and contrast the concepts of justice, freedom, equality, citizenship, and sovereignty in the works of Machiavelli, Hobbes, Locke, and Rousseau; • Explain the different versions of, and importance of, the state of nature to political thought • Explain Karl Marx's worldview, with particular regard to his critique of democracy and the modern, politically liberal state; how it came to be; and its fundamental link to capitalism • Explain John Stuart Mill's theory on utilitarianism and how he applies it to society and the state.
S.Y.B.A.	Political Sociology (S-2)	<ul style="list-style-type: none"> • Have good knowledge about main issues and topics in political sociology. • Be able to understand basic principles of the exercise of power, of the state relations with civil society; individual and group interactions in the political realm. • Achieve practical skills of analysis of social phenomena in their political settings. • Acquire habits of socio-political information finding, sorting and critical examining. • Foster skills of public presentations and discussions.
T.Y.B.A.	Modern Political Ideologies (G- 3)	<ul style="list-style-type: none"> • Student enables to understand the role of different political Ideologies and their impact in Politics. • Students enable to understand the different streams and subtle nuances within each ideology, the change and continuities in its doctrine and its relevance to contemporary times are highlighted. • Student enables to understand the core doctrines of each of the ideologies and to make

T.Y.B.A.	Public Administration (S-3)	<ul style="list-style-type: none"> • Students enable to demonstrate understanding of various activities of governmental administrators that fall under the rubric of public administration to include rule-making, ratemaking, and other regulatory activities, policy making and the delivery of services and programs • Students enable to understand the 20th century emergence of the modern administrative state as a result of the technological, social, economic and political pressures that have emerged in national industrialized and developed complex, interdependent systems. • Students enable to understanding of public administration as a career field in government.
T.Y.B.A.	International Politics (S-4)	<ul style="list-style-type: none"> • Students enable to understand the evolution, scope and significance of international relations • Students enable to demonstrate an understanding of: the key historical events and also they enable to understand contemporary international system; and the key actors which shaped the international Politics. • Students enable to discuss the main international relations theories. • Students enable to analyze importance of International relation in process of nation progress. • Students enable to appreciate the foreign policy their determinants features& its relevance


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Program Outcomes, Programme Specific Outcomes and Course Outcome

Department Of Marathi

Program Outcomes B.A/ B.COM MARATHI	
PO1	To study Marathi language, Marathi literature and Marathi culture.
PO2	To develop literary comprehension, appreciation and evaluation skills.
PO3	Developing understanding of life through literature study.
PO4	Comprehension, appreciation and evaluation of selected poems from the assigned textbook

B.A

- 1.मराठी भाषा, मराठी साहित्य आणि मराठी संस्कृती यांचा अभ्यास करणे
- 2.साहित्यिक आकलन, कौतुक आणि मूल्यमापन कौशल्ये विकसित करणे.
- 3.साहित्य अभ्यासातून जीवनाचे आकलन विकसित करणे.
- 4.नेमलेल्या अभ्यासपुस्तकातील निवडक कवितांचे आकलन, आस्वाद आणिमूल्यमापन करणे.

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of Marathi

Course Outcomes of B.A. (Marathi)

Class	Course	Outcome
F.Y.B.A.	Marathi General Paper-1 (G1)	<ul style="list-style-type: none">• Get introduced to Marathi literature, language and culture.• Create interest in Marathi literature.• Develop the literary taste• Get ability to appreciate literature.• Connect literature to real life experience.• Understand various branches and movements of Marathi literature.• Develop linguistic skills to meet the requirements in the age of globalization.
S.Y.B.A.	Marathi General Paper-2 (G2)	<ul style="list-style-type: none">• Get introduced to standard writing practices.• Develop the skill of translation.• Understand aspects of Biography and Autobiography.• Develop ability to appreciate and evaluate selected Biographies and Autobiographies in modern Marathi literature.
S.Y.B.A.	Marathi Special Paper-1 (S1) Marathi Sahityatil Vividh Sahityaprakar	<ul style="list-style-type: none">• Get basic knowledge of Marathi literature.• Get introduced to literary classics of different historical periods.• Create and cultivate taste in Marathi literature.• Understand to analyze, evaluate and appreciate literary texts.• Develop ability for in-depth study of literature.
S.Y.B.A.	Marathi Special Paper-2 (S2)	<ul style="list-style-type: none">• Understand the history of Marathi literature.• Get the concept of literary history Clarified.• Get introduced to the nature, source and types of Marathi literature from 1818 to 1960.• Get acquainted to the major Marathi writers and their works from 1818 to 1960.

T.Y.B.A.	Marathi General Paper-3 (G3)	<ul style="list-style-type: none"> • Get acquainted to various movements in Modern Marathi literature. • Generate interest in modern Marathi literature • Get introduced to media. • Develop skill in preparing materials for media including Newspaper, Radio and TV.
	Marathi Special Paper-3 (S3)	<ul style="list-style-type: none"> • Understand the nature and function of literature. • Understand the nature of the process of literary creation and the concept of literary genus. • Acquire ability to analyze the process of literary appreciation. • Get acknowledged to some fundamental concepts in literary appreciation.
	Marathi Special Paper-4 (S4)	<ul style="list-style-type: none"> • Understand the original development of Marathi language in the light of linguistic theories. • Understand the evolution of Marathi language. • Get acquainted to the basic features of Marathi language. • Get introduced to historical and descriptive linguistics


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