

Shikshan Prasarak Mandal's  
**Gopal Krishna Gokhale College, Kolhapur**  
**Course Outcomes**  
**Department of Physics**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>B.Sc.I CBCS</b>	<b>Sem.-I</b>	<b>DSC -1A Mechanics - I paper I</b>	<ol style="list-style-type: none"> <li>1. The students will understand exact how to know vector or scalar.</li> <li>2. The students will learn difference between partial and ordinary differential equations.</li> <li>3. The students learn Newton's laws of motion and how to calculate moment of inertia in rotational motion.</li> <li>4. The students will understand laws of conservation of linear and angular momentum and its uses.</li> </ol>
		<b>DSC-2A Mechanics -II paper II</b>	<ol style="list-style-type: none"> <li>1. The students will be capable to discuss gravitational laws of motion and how it's applicable in satellites.</li> <li>2. The student will know the oscillation and from this how to calculate gravitational force.</li> <li>3. The students will be able to discuss elasticity and its type.</li> <li>4. The students will be able to get the idea behind the surface tension and how it works exactly.</li> </ol>
	<b>Sem.-II</b>	<b>DSC B: Electricity and Magnetism-I Paper- III</b>	<ol style="list-style-type: none"> <li>1. The students will understand how to get scalar and vector and also dot and cross products and its physical significance.</li> <li>2. The students will be able to discuss concept of electrostatic field. Gauss's theorem and information about capacitance, condenser, light polarization.</li> </ol>
		<b>DSC-2B Electricity and Magnetism -II Paper IV</b>	<ol style="list-style-type: none"> <li>1. The students will be able to understand circuits in it LCR and how to introduce head phone and resistance control the voice.</li> <li>2. The students will understand magnetism and its types.</li> <li>3. The students will understand basics of Faraday's law, Lenz's law.</li> <li>4. The student will get the knowledge of electromagnetic theory and basic Maxwell's laws.</li> </ol>

<b>B.Sc. II CBCS</b>	<b>Sem.-III</b>	<b>DSC- C1 – Thermal physics and statistical Mechanics -I paper No. V</b>	<ol style="list-style-type: none"> <li>1. The students will understand kinetic theory of gases and thermometry.</li> <li>2. The students get knowledge about laws of thermodynamics , workdone , how Carnot's engine work, Reversible and irreversible process.</li> </ol>
		<b>DSC-C2 Waves and optics-I paper No. VI</b>	<ol style="list-style-type: none"> <li>1. The student will explain oscillations and how superimpose waves, Lissajous figures.</li> <li>2. The students will understand basic concepts of oscillations.</li> <li>3. The students will get the knowledge of waves and it's motion and it's velocity..</li> <li>4. The students will understand basic ideas of sound and how to control it.</li> <li>5. The students will get the knowledge to do experiment of viscosity .</li> <li>6. The students will get the knowledge about basic of vaccum pumps and how to control pressure.</li> </ol>
	<b>Sem.-IV</b>	<b>DSC-D1 Thermal physics and statistical mechanics-II paper No. VII</b>	<ol style="list-style-type: none"> <li>1. The students will understand themodynamics and it's problem.</li> <li>2. The students will get the knowledge about application of black body radiation. And laws in this.</li> <li>3. The introduction of basic of classical statistics and it's states.</li> <li>4. Student will learn the basics of quantum statistics.</li> </ol>
		<b>DSC- D2 Waves and optics -II paper No. VIII</b>	<ol style="list-style-type: none"> <li>1. The students will get the knowledge about the cardinal points.</li> <li>2. The students will get the knowledge about resolving power of optical instruments basically optics.</li> <li>3. The students will understand the polarization of light.</li> <li>4. Student will be capable of understanding the interference of light., Newton's rings.</li> <li>5. Student will learn the basic knowledge Diffraction and theory of grating.</li> </ol>
<b>B.Sc. III CBCS</b>	<b>Sem.-V</b>	<b>DSE-E1 Mathematical Physics Paper No. –</b>	<ol style="list-style-type: none"> <li>1. The students will get how to calculate partial differential equations and difference between partial and ordinary differential equation.</li> <li>2. The students will understand frobenious method and special functions.</li> </ol>

		<b>IX</b>	<ol style="list-style-type: none"> <li>The students will acquire new concept of integrals.</li> <li>The students will understand the complex analysis..</li> </ol>
		<b>DSE-E2-Quantum Mechanics Paper No.- X</b>	<ol style="list-style-type: none"> <li>The students will getting Idea of wave particles and uncertainty relation.</li> <li>The students will get knowledge of schrodinger's wave equations and how to calculate Eigen values.</li> <li>The students will know idea of operators in quantum mechanics.</li> <li>The students will understand application of schrodinger's wave equations.</li> </ol>
			5.
		<b>DSE- E3 Classical Mechanics and classical Electrodynamics Paper No. XI</b>	<ol style="list-style-type: none"> <li>The students will understand Lagrangian formulation and in it how to calculate degrees of freedom D'Alembert principle.</li> <li>The students will get knowledge of techniques of calculus of variation.</li> <li>The students will understand special theory of relativity.and some transformation.</li> <li>The students will get knowledge of Poisson's and Laplace's equations and it's physical significance.</li> </ol>
		<b>DSE-E4-Digital and analogcircuits and instrumentation paper No. XII</b>	<ol style="list-style-type: none"> <li>The students will able to understand basic digital logic gates.</li> <li>The students will get knowledge of transistor amplifier and sinusoidal oscillator and work.</li> <li>The students will able to basics of CRO.</li> <li>The students will get knowledge op-amp and it's characteristics.</li> </ol>
	<b>Sem.-VI</b>	<b>DSE-F1 Nuclear and particle physics. Paper No. -XIII</b>	<ol style="list-style-type: none"> <li>The students will able to understand general properties of nuclei and nuclear model.</li> <li>The students will able to understand the cyclotron it's construction and working.same as Synchrocyclotron working and construction.</li> <li>The students will able to understand which are the nuclear detectors.</li> <li>Students will able to understand basic idea of particle physics.</li> </ol>

		<p><b>DSE-F2- Solid state physics Paper No. XIV</b></p>	<ol style="list-style-type: none"> <li>1. The students will get knowledge of basic crystal structures.</li> <li>2. The students will get knowledge X-rays diffraction, Brillouin zone and hysteresis.</li> <li>3. Student will learn magnetic properties of matter and types of Magnetism.</li> <li>4. The students will get knowledge of concepts of density states , Hall effect and it's related things</li> </ol>
		<p><b>DSE-F 3 Atomic and molecular physics and Astrophysics Paper No. XV</b></p>	<ol style="list-style-type: none"> <li>1. The students will get knowledge of atomic spectra, fine structure doublets.</li> <li>2. The students will get knowledge about Molecular spectra mainly in hydrogen atom.</li> <li>3. Students will able to understand the Raman spectra.</li> <li>4. Students will able to understand big bang theory and some laws about galaxy..</li> <li>5. The students will get knowledge stellar evolution, related to sun.</li> </ol>
		<p><b>DSE-F4 Energy studies and materials science Paper No. XVI</b></p>	<ol style="list-style-type: none"> <li>1. Students will able to understand the energy and realted are wind energy.</li> <li>2. Students will able to understand solar energy and it's utilisation.</li> <li>3. Students will able to understand the biomass energy.</li> <li>4. Students will able to understand the Idea of superconductivity.</li> <li>5. Students will able to understand of nanotechnoloy and how to synthesise the material.</li> </ol>

Shikshan Prasarak Mandal's  
**Gopal Krishna Gokhale College, Kolhapur**  
**Course Outcomes**  
**Department of Chemistry**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>B.Sc.I CBCS</b>	<b>Sem.-I</b>	<b>DSC-3A- Inorganic Chemistry paper I</b>	<ol style="list-style-type: none"> <li>1. The students will understand Bhor's Theory, Shape of orbital, three laws related to electron filling rules &amp; Periodic trends.</li> <li>2. The students will appreciate formation of ionic bond, Born-Haber cycle &amp; Fajan's Rule.</li> <li>3. The students will realize Concept of hybridization, different types of hybridization and geometry.</li> <li>4. The students will understand type of overlapping, molecular orbital diagram and bond order.</li> </ol>
		<b>DSC-4A- Organic Chemistry paper II</b>	<ol style="list-style-type: none"> <li>1. The students will be capable to discuss Fundamentals of organic reactions mechanisms.</li> <li>2. The student will explain brief idea of types of chemical reactions and reactive intermediates.</li> <li>3. The students will be able to discuss the concept of stereochemistry.</li> <li>4. The students will be able to discuss the optically active or inactive compounds, E,Z &amp; R,S nomenclature.</li> <li>5. The student will get the knowledge of aromatic and non-aromatic compounds.</li> <li>6. The students will understand IUPAC nomenclature, Orbital Structures, synthesis methods, Chemical reaction in Cycloalkanes, cycloalkenes and alkadienes.</li> </ol>
	<b>Sem.-II</b>	<b>DSC 3B: Physical Chemistry Paper-III</b>	<ol style="list-style-type: none"> <li>1. The students will understand law of thermodynamics Spontaneous and non-spontaneous process.</li> <li>2. The students will be able to discuss Concept of standard state and standard enthalpies of formations &amp; Kirchhoff's equation.</li> <li>3. The students will be able to discuss Thermodynamic derivation of the law of</li> </ol>

			<p>chemical equilibrium &amp; LeChatelier's principle.</p> <ol style="list-style-type: none"> <li>The students get idea about ideal and non-ideal gases, Boyle law, Vander waals equation.</li> <li>The students will identify order and molecularity of a chemical reaction.</li> <li>The student will explain the velocity and productivity of reactions.</li> </ol>
		<b>DSC-4B- Analytical Chemistry Paper IV</b>	<ol style="list-style-type: none"> <li>The students will be able to Analytical processes (Qualitative and Quantitative), Sampling, Methods of analysis, Errors &amp; accuracy.</li> <li>The students will understand Chromatography techniques.</li> <li>The students will understand basics of titrations methods.</li> <li>The student will get the knowledge physical analysis of water &amp; chemical analysis</li> <li>The student will get the knowledge Fertilizer analysis.</li> </ol>
<b>B.Sc. II CBCS</b>	<b>Sem.-III</b>	<b>DSC- C3 - Physical Chemistry paper No. V</b>	<ol style="list-style-type: none"> <li>The students will understand conductivity and transport number of the aqueous solutions with different applications.</li> <li>The students get knowledge about surface tension, viscosity and refractive index.</li> <li>The students will understand surface phenomena at heterogeneous surfaces.</li> <li>The students will acquire various nuclear phenomena and measurement of nuclear radiations.</li> <li>The students will get the knowledge about third order reaction and theories of reaction rates.</li> </ol>
		<b>DSC-C4- Industrial Chemistry paper No. VI</b>	<ol style="list-style-type: none"> <li>The student will explain applications of some important methods of industrial processes.</li> <li>The students will understand basic concepts and concentration terms distinguish between classical and industrial chemistry, unit operations and unit processes.</li> <li>The students will get the knowledge of some unit operations.</li> <li>The students will understand the process of corrosion and Knowledge of prevention from corrosion.</li> <li>The students will get the knowledge of Indian paper industry.</li> <li>The students will get the knowledge about the chemical nature and</li> </ol>

			cleansing action of soap.
	<b>Sem.-IV</b>	<b>DSC-D3- Inorganic Chemistry paper No. VII</b>	<ol style="list-style-type: none"> <li>1. The students will understand basic concepts about coordination complexes.</li> <li>2. The students will get the knowledge about application of chelates in analytical chemistry.</li> <li>3. The student will understand the nature, applications of element of p block elements.</li> <li>4. Student will be capable of understanding the properties of 3d series elements.</li> <li>5. Student will learn the basic knowledge about the qualitative analysis of inorganic compounds</li> </ol>
		<b>DSC- D4 - Organic Chemistry paper No. VIII</b>	<ol style="list-style-type: none"> <li>1. The students will get the knowledge about the synthesis, reactivity and applications of carboxylic acids.</li> <li>2. The students will get the knowledge about classification, preparation and applications of amines and diazonium salts.</li> <li>3. The students will understand the classification, configuration and structure of carbohydrates.</li> <li>4. Student will be capable of understanding the nomenclature and reactivity of aldehydes and ketones.</li> <li>5. Student will learn the basic knowledge conformational analysis of organic compounds.</li> </ol>
<b>B.Sc. III CBCS</b>	<b>Sem.-V</b>	<b>DSE-E5 - Inorganic Chemistry Paper No. -IX</b>	<ol style="list-style-type: none"> <li>1. The students will get knowledge about of role of acids and bases, non – aqueous solvents &amp; all chemical properties of solutes.</li> <li>2. The students will understand geometry, stability and nature of bonding between metal ion and ligand in complexes.</li> <li>3. The students will understand the synthesis and the applications of the semiconductors and Superconductors in electrical and electronic devices.</li> <li>4. The students will understand the structure, method of preparation and the applications of organometallic compound in various fields.</li> <li>5. The students will understand the classification, types, mechanism and applications of catalyst in industrial fields.</li> </ol>
		<b>DSE-E6 -</b>	<ol style="list-style-type: none"> <li>1. The students will understand of energy associated with electromagnetic</li> </ol>

		<p style="text-align: center;"><b>Organic Chemistry Paper No. X</b></p>	<p>radiation and its use in analytical technique.</p> <ol style="list-style-type: none"> <li>2. The students will get knowledge of chromophore, auxochrome and calculation of <math>\lambda_{\text{max}}</math>.</li> <li>3. The students will get knowledge of vibrational transitions, regions of IR spectrum, functional group recognition.</li> <li>4. The students will understand of magnetic, non- magnetic nuclei, shielding-deshielding, chemical shift, splitting pattern.</li> <li>5. The students will understand of molecular ion, fragmentation pattern and different types of ions produced.</li> <li>6. Student will predict the structure of organic compound with the help of provided spectral data.</li> </ol>
		<p style="text-align: center;"><b>DSE- E7- Physical Chemistry Paper No. XI</b></p>	<ol style="list-style-type: none"> <li>1. The students will understand understanding quantum Chemistry, Heisenberg's uncertainty principle, concept of energy operators (Hamiltonian), Schrodinger wave equation, Physical interpretation of the <math>\psi</math> and <math>\psi^2</math> &amp; particle in a one dimensional box.</li> <li>2. The students will get knowledge about spectroscopy, Electromagnetic spectrum, Energy level diagram, Study of rotational spectra of diatomic molecules: Rigid rotor model, Microwave oven, vibrational spectra of diatomic molecules, simple Harmonic oscillator model, Raman spectra: Concept of polarizability, pure rotational and pure Vibrational Raman spectra of diatomic molecules.</li> <li>3. The students will understand photochemical laws, reactions and various photochemical phenomena.</li> <li>4. The students will get knowledge the various types of solutions, relations vapour pressure, temperature relations.</li> <li>5. The students will get knowledge of emf measurements, types of electrodes, different types of cells, various applications of emf measurements.</li> </ol>
		<p style="text-align: center;"><b>DSE-E8- Analytical Chemistry paper No. XII</b></p>	<ol style="list-style-type: none"> <li>1. The students will able to understand the techniques of gravimetric analysis.</li> <li>2. The students will get knowledge of instrumental analysis of alkali and alkaline earth elements.</li> <li>3. The students will able to understand working and applications of optical</li> </ol>



			<p>methods as an analytical tool.</p> <ol style="list-style-type: none"> <li>The students will get knowledge theory and applications of potentiometric titrations.</li> <li>The students will be able to understand the basics of ion exchange and column adsorption chromatography, Quality control practices in analytical industries /laboratories.</li> </ol>
<b>Sem.-VI</b>		<b>DSE-F5- Inorganic Chemistry Paper No. –XIII</b>	<ol style="list-style-type: none"> <li>The students will be able to understand the mechanism of the reactions involved in inorganic complexes of transition metals and the thermodynamic and kinetic aspects of metal complexes.</li> <li>The students will be able to understand the generation of nuclear power with the help of nuclear reactions, role of radio isotopes in medicinal, industrial and Archaeology fields.</li> <li>The students will be able to understand the characteristics, properties and separation of lanthanides and Actinides, Synthesis and IUPAC Nomenclature of trans uranic elements (TU).</li> <li>Students will be able to understand iron and steel and their production technique.</li> <li>Students will be able to understand the concept bioinorganic chemistry, role of various metals and non-metals in our health</li> </ol>
		<b>DSE-F6- Organic Chemistry Paper No. XIV</b>	<ol style="list-style-type: none"> <li>The students will get knowledge of reagents used in organic transformations and various reactions used in organic synthesis.</li> <li>The students will get knowledge of basic terms used in retrosynthetic analysis,retrosynthesis of some organic compounds.</li> <li>Student will learn addition reaction across <math>&gt;C=C&lt;</math> bond w.r.t. hydrohalogenation, hydration hydroxylation, ozonolysis and addition of halogen,halogen acid, hydrogen, water, etc. across <math>-C\equiv C-</math> bond.</li> <li>The students will get knowledge of terpenoids and alkaloids w.r.t. occurrence, isolation, characteristics and classification, Analytical and synthetic evidences of Citral and Nicotine.</li> <li>Students will be able to understand classification of drugs, qualities of ideal drug, synthesis and uses of some representative drugs and drug action of sulpho drugs.</li> </ol>
		<b>DSE-F 7-</b>	<ol style="list-style-type: none"> <li>The students will get knowledge of phase rule, learning of one component,</li> </ol>

		<p align="center"><b>Physical Chemistry Paper No. XV</b></p>	<p>two component and three component systems phase diagrams.</p> <ol style="list-style-type: none"> <li>2. The students will get knowledge about basic concept of thermodynamics, free energy, Gibbs-Helmholtz equation and its applications.</li> <li>3. Students will able to understand the term solid state chemistry, synthetic applications.</li> <li>4. Students will able to understand of kinetics, Simultaneous reactions.</li> <li>5. The students will get knowledge of distribution law, its modifications, applications of distribution laws, process of extraction, determination of solubility, distribution indicators, and molecular weights.</li> </ol>
		<p align="center"><b>DSE-F8- Industrial Chemistry Paper No. XVI</b></p>	<ol style="list-style-type: none"> <li>1. Students will able to understand the whole process of manufacture of sugar and byproducts of sugar industry.</li> <li>2. Students will able to understand of physicochemical principles of production of ammonia, sulfuric acid, nitric acid and sodium carbonate along with its manufacturing plant.</li> <li>3. Students will able to understand the classification, synthesis and applications of various polymers.</li> <li>4. Students will able to understand the petroleum Industry, fuels and need of use of ecofriendly fuels.</li> <li>5. Students will able to understand of nanotechnology including classification, optical properties, synthesis routes, characterization techniques and applications of nano-materials.</li> </ol>

Shikshan Prasarak Mandal's  
**Gopal Krishna Gokhale College, Kolhapur**  
**Course Outcomes**  
**Department of Computer Science**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>B.Sc.I CBCS</b>	<b>Sem.-I</b>	<b>DSC-11 A - Problem Solving Using Computers</b>	<ol style="list-style-type: none"> <li>1. Able to implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.</li> <li>2. Demonstrate an understanding of computer programming language concepts.</li> <li>3. To be able to develop C programs on linux platform.</li> <li>4. Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array.</li> </ol>
		<b>DSC-12A Database Management System</b>	<ol style="list-style-type: none"> <li>1. Understand the basic concepts and the applications of database systems.</li> <li>2. Master the basics of SQL and construct queries using SQL.</li> <li>3. Understand the relational database design principles.</li> <li>4. Familiar with the basic issues of transaction processing and concurrency control.</li> <li>5. Familiar with database storage structures and access techniques.</li> <li>6. Design ER-models to represent simple database application scenarios</li> </ol>
	<b>Sem.-II</b>	<b>DSC-11B Programming Skills Using 'C'.</b>	<ol style="list-style-type: none"> <li>1. Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.</li> <li>2. Student must be able to define union and enumeration user defined data types.</li> <li>3. Develop confidence for self education and ability for life-long learning needed for Computer language..</li> </ol>
		<b>DSC-12B</b>	<ol style="list-style-type: none"> <li>1. Understand the E R model and relational model</li> </ol>

		<b>Relational Database Management System</b>	<ol style="list-style-type: none"> <li>To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.</li> <li>Understand Functional Dependency and Functional Decomposition.</li> <li>Apply various Normalization techniques</li> <li>Perform PL/SQL programming using concept of Cursor Management, Error Handling, Package and Triggers</li> <li>Execute various advance SQL queries related to Transaction Processing &amp; Locking using concept of Concurrency control.</li> </ol>
<b>B.Sc. II CBCS</b>	<b>Sem.-III</b>	<b>DSC-11C PHP and MySQL</b>	<ol style="list-style-type: none"> <li>The objective of this course is to provide the necessary knowledge to design and develop dynamic, database-driven web applications using PHP version 5.</li> <li>Students will learn how to connect to any ODBC-compliant database, and perform hands on practice with a MySQL database to create database-driven HTML forms and reports etc.</li> <li>Students also learn how to configure PHP and Apache Web Server. Comprehensive lab exercises provide facilitated hands on practice crucial to develop competence web sites.</li> </ol>
		<b>DSC-12C Object Oriented Programming Using C++</b>	<ol style="list-style-type: none"> <li>Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects.</li> <li>Understand dynamic memory management techniques using pointers, constructors, destructors, etc</li> <li>Describe the concept of function overloading, operator overloading, virtual functions and polymorphism.</li> <li>Demonstrate the use of various OOPs concepts with the help of programs.</li> </ol>
	<b>Sem.-IV</b>	<b>DSC-11D Cyber Security Essentials-I</b>	<ol style="list-style-type: none"> <li>Exhibit knowledge to secure corrupted systems, protect personal data, and secure computer networks in an Organization.</li> <li>Develop cyber security strategies and policies.</li> <li>Understand principles of web security and to guarantee a secure network by monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools.</li> </ol>

		<b>DSC-12D Data Structure Using C++</b>	<ol style="list-style-type: none"> <li>1.To impart the basic concepts of data structures and algorithms</li> <li>2 .To understand concepts about searching and sorting techniques</li> <li>3. To Understand basic concepts about stacks,queues,lists,trees and graphs</li> <li>4 .To understanding about writing algorithms and step by step approach in solving problems with the help of fundamental data structures</li> </ol>
<b>B.Sc. III CBCS</b>	<b>Sem.-V</b>	<b>DSE-21E - Core Java Paper No. IX</b>	<ol style="list-style-type: none"> <li>1. Explain about basic Java language syntax and semantics to write Java programs.</li> <li>2. Describe the concepts of variables, conditional and iterative execution methods etc.</li> <li>3. Discuss the fundamentals of object-oriented programming in Java, including defining classes, objects, invoking methods</li> <li>4. Explain the various methodologies to handle the exception mechanisms and the principles of inheritance, packages and interfaces</li> <li>5. Demonstrate the programming concepts for applet and graphics.</li> </ol>
		<b>DSE-22E – C# Programming Paper No. X</b>	<ol style="list-style-type: none"> <li>1. Create, compile and run object-oriented C# programs using Visual Studio.</li> <li>2. Explain the C# language constructs syntax and semantics.</li> <li>3. Describe the reusable .NET components via interface realization and standard design patterns.</li> <li>4. Discuss about the major namespaces and classes of the .NET Framework.</li> <li>5. Explain the databases using Language Integrated.</li> </ol>
		<b>DSE-23E – Linux Part I Paper No. XI</b>	<ol style="list-style-type: none"> <li>1. Explain the history and origins of the Linux operating system</li> <li>2. Text editing in the Linux environment</li> <li>3. Implement basic Linux tools</li> <li>4. Configure the Linux environment</li> <li>5. understanding the basic set of commands and utilities in Linux/UNIX systems.</li> <li>6. To learn the scripting language and get experience of shell programming</li> <li>7. To learn the important Linux/UNIX library functions and system calls.</li> </ol>
		<b>DSE-24E Paper XII</b>	<ol style="list-style-type: none"> <li>1. To understand why Python is a useful scripting language for developers</li> <li>2.To learn how to write loops and decision statements in Python</li> </ol>

	<b>Sem.-VI</b>	<b>Python Part I</b>	3. To learn how to use lists, tuples, and dictionaries in Python programs
		<b>DSE-21F- Advanced Java Paper No. XIII</b>	<ol style="list-style-type: none"> <li>1. Explain about Advanced Java language syntax and semantics to write Advanced Java programs.</li> <li>2. Advanced Java describes the concepts of variables, conditional and iterative execution methods in advanced technics.</li> <li>3. Demonstrate approaches for performance and effective coding</li> <li>4. The student will be able to develop distributed business applications, develop web pages using advanced server-side programming through servlets and Java server pages.</li> <li>5. To study web development concept using Servlet and JSP</li> <li>6. To learn database programming using Java</li> </ol>
		<b>DSE-22F – ASP .NET Paper No. XIV</b>	<ol style="list-style-type: none"> <li>1. This course will cover the practical aspects of multi-tier web based application development using the .NET framework.</li> <li>2. The goal of this course is to introduce the students to the basics of distributed Web application development.</li> <li>3. Explain the fundamental tags used in HTML.</li> <li>4. Develop the web page in various applications.</li> <li>5. Describe the concepts of database handling using DAO, ADO and RDO control with data report concepts.</li> <li>6. Discuss about the fundamental functions and properties of Advanced ActiveX Control.</li> <li>7. Describe the functionality and properties of GUI based ActiveX Control with example programs</li> <li>8. Explain the basic Concepts of Program building block control statements and the basic concepts of function and procedure.</li> </ol>
		<b>DSE-23F – Linux Part II Paper No. XV</b>	<ol style="list-style-type: none"> <li>1. Understand the theory of Linux design and operation</li> <li>2. Ability to be productive in a Linux environment</li> <li>3. To learn to develop software for Linux/UNIX systems.</li> <li>4. To understand the inner workings of UNIX-like operating systems.</li> <li>5. To obtain a foundation for an advanced course in operating systems.</li> <li>6. Discuss shell programming in Linux operating system</li> <li>7. Distinguish various filter and server commands</li> <li>8. Recognize the technological trends of Computer Networking.</li> </ol>

			9. Understand the TCP/IP model. 10. Evaluate the challenges in building networks and solutions to those.
		<b>DSE-24F Paper XVI Python Part II</b>	1. To learn how to write functions and pass arguments in Python 2. To learn how to build and package Python modules for reusability 3. To learn how to use exception handling in Python applications for error handling

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**Course Outcomes**  
**Department of Mathematics**

Class	Semester	Paper Name & Number	Outcomes
<b>B.Sc.I CBCS</b>	<b>Sem.-I</b>	<b>DSC-5A- Differential Calculus paper I</b>	<ol style="list-style-type: none"> <li>1. The students will understand the idea of derivatives.</li> <li>2. The students will appreciate the role of exponential function.</li> <li>3. The students will realize the concept of continuity.</li> <li>4. The students will understand the relation between derivative and linear approximation.</li> </ol>
		<b>DSC-6A Calculus paper II</b>	<ol style="list-style-type: none"> <li>1. The students will be capable to generate solutions to unfamiliar problems</li> <li>2. The student will explain the brief idea of group setting</li> <li>3. The students will be able to discuss the concept of mathematical language</li> <li>4. The students will be able to discuss areas in mathematics and other fields where calculus is useful.</li> </ol>
	<b>Sem.-II</b>	<b>DSC-5B Differential Equations Paper-III</b>	<ol style="list-style-type: none"> <li>1. The students will understand the meaning of solution of differential equations</li> <li>2. The students will be able to discuss the concept of exact differential equations</li> <li>3. Students will be able to determine types of linear differential equations systems</li> <li>4. Students will be able to solve homogeneous differential equations</li> </ol>
		<b>DSC-6B-Higher order ODE and PDE Paper IV</b>	<ol style="list-style-type: none"> <li>1. The students will be able to have knowledge of PDE</li> <li>2. The students will understand to solve practical PDE problems</li> <li>3. The students will understand basics PDE using conservation law</li> <li>4. The student will get the knowledge about types of PDE</li> </ol>
<b>B.Sc. II CBCS</b>	<b>Sem.-III</b>	<b>DSC- 5C Real Analysis-1 paper No. V</b>	<ol style="list-style-type: none"> <li>1. The students will understand sequence and series.</li> <li>2. The students will get knowledge about convergence, limits and continuity.</li> <li>3. The students will understand differentiability and integrability.</li> <li>4. The students will understand the study of complex numbers</li> </ol>
		<b>DSC-6C- Algebra -1 paper No. VI</b>	<ol style="list-style-type: none"> <li>1. The student will explain applications of simplify some formulas</li> <li>2. The students will understand basic concepts of algebra</li> <li>3. The students will get the knowledge of expression using polynomial, rational, exponential terms.</li> <li>4. The students will understand binary operations, group and field.</li> </ol>
	<b>Sem.-IV</b>	<b>DSC-5D -. Real Analysis-2 paper No. VII</b>	<ol style="list-style-type: none"> <li>1. The students will understand basic concepts about Monotone sequence</li> <li>2. The students will get the knowledge about application of limit superior and limit inferior of sequences.</li> <li>3. The student will understand convergent and divergent series.</li> <li>4. Student will be capable of understanding comparison test.</li> </ol>
		<b>DSC- 6D-Algebra 2 paper No. VIII</b>	<ol style="list-style-type: none"> <li>1. The students will get the knowledge about Lagrange's theorem.</li> <li>2. The students will get the knowledge about Normal subgroup and its properties.</li> <li>3. The students will understand properties of factor group.</li> <li>4. Student will be capable of understanding Ring and subring.</li> </ol>



Shikshan Prasarak Mandal's  
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**Course Outcomes**  
**Department of Statistics**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>B.Sc.I CBCS</b>	<b>Sem.-I &amp; II</b>	<b>Paper I &amp; II</b>	By the end of course the Students will be able to: 1. Compute various measures of central tendencies, dispersion, moments, skewness, kurtosis and to interpret them. 2. Analyze data pertaining to attributes and to interpret the results. 3. Distinguish between random and non-random experiments. 4. Find the probabilities of various events. 5. To understand concept of conditional probability and independence of events..
		<b>Paper III &amp; IV</b>	By the end of course the Students will be able to: 1. Compute correlation coefficient, interpret its value. 2. Compute regression coefficient, interpret its value and use in regression analysis. 3. Compute various index numbers. 4. Apply discrete probability distributions studied in this course in different situations. 5. Distinguish between discrete variables and study of their distributions. 6. Know some standard discrete probability distributions with real life situations. 7. Understand concept of bivariate distributions and computation of related probabilities
<b>B.Sc.II CBCS</b>	<b>Sem.-III &amp; IV</b>	<b>Paper V &amp; VI</b>	By the end of course the Students will be able to: 1. Understand concept of discrete and continuous distributions with real life situations. 2. Distinguish between discrete and continuous distribution. 3. Find various measures of r.v. and probabilities using its probability distributions.

			<p>4. Know the relations among the different distributions.</p> <p>5. Understand the concept of Transformation of Univariate and Bivariate continuous r. v.</p> <p>6. Understand the concept of Multiple Linear Regression, Multiple correlation and partial correlation.</p> <p>7. Know the concept of sampling theory.</p> <p>8. Understand the need of Vital Statistics and concept of mortality and fertility.</p>
		<p><b>Paper VII &amp; VIII</b></p>	<p>By the end of course the Students will be able to:</p> <p>1. Know some standard continuous probability distributions with real life situations.</p> <p>2. Distinguish between various continuous distributions.</p> <p>3. Find the various measures of continuous r. v. and probabilities using its probability distributions.</p> <p>4. Understand the relation among the different distributions.</p> <p>5. Understand the Chi-square, t and F distributions with their applications and inter relations.</p> <p>6. Know the concept and use of time series,</p> <p>7. Understand the meaning, purpose and use of Statistical Quality Control, construction and working of control charts for variables and attributes.</p> <p>8. Apply the small sample test and large sample test in various situations.</p>

Shikshan Prasarak Mandal's  
**Gopal Krishna Gokhale College, Kolhapur**  
**Course Outcomes**  
**Department of Electronics**

Class	Semester	Paper Name & Number	Outcomes
<b>B.Sc.I CBCS</b>	<b>Sem.-I</b>	<b>DSC- A9 NETWORK ANALYSIS AND ANALOG ELECTRONICS Paper No. I</b>	After studying this course the students are able to – <ul style="list-style-type: none"> <li>• Understand functioning of basic electronic components.</li> <li>• Understand basic laws and rules of circuit analysis and network parameters.</li> <li>• Understand fundamentals of semiconductor diodes and its applications.</li> </ul>
		<b>DSC- A10 DIGITAL INTEGRATED CIRCUITS Paper No. II</b>	After studying this course the students are able to – <ul style="list-style-type: none"> <li>• Understand functioning of basic digital electronics.</li> <li>• Understand number system, basic gates, basic laws and theorems for digital logic circuit design.</li> <li>• Understand Combinational Logic Analysis and Design, Arithmetic Circuits and Data processing circuits.</li> </ul>
	<b>Sem.-II</b>	<b>DSC- B9 ANALOG ELECTRONIC CIRCUITS Paper No. III</b>	After studying this course the students are able to – <ul style="list-style-type: none"> <li>• Understand construction and functioning of transistor.</li> <li>• Understand application of transistor as amplifier and oscillator.</li> <li>• Understand fundamentals of Field Effect Transistor (FET) and Unijunction Transistor (UJT).</li> </ul>
		<b>DSC- B10 LINEAR AND DIGITAL INTEGRATED CIRCUITS Paper No. IV</b>	After studying this course the students are able to – <ul style="list-style-type: none"> <li>• Understand functioning of sequential digital circuits such as Flip-Flop.</li> <li>• Understand working of digital circuits such as counters and shift registers.</li> <li>• Understand function of data convertors such as DAC and ADC.</li> <li>• Understand function of Operational Amplifier (OPAMP) and there applications.</li> </ul>
<b>B.Sc. II CBCS</b>	<b>Sem.-III</b>	<b>Communication Electronics Paper No. V</b>	After studying this course the students are able to – <ul style="list-style-type: none"> <li>• Understand functioning of basic communication systems.</li> <li>• Understand analog modulation &amp; demodulation techniques.</li> <li>• Understand satellite communication &amp; navigation systems.</li> </ul>
		<b>Introduction to</b>	After studying this course the students are able to –

		<b>microprocessor 8085 and Microcontroller 8051</b> <b>Paper No. VI</b>	<ul style="list-style-type: none"> <li>• Understand microcomputer organization and architecture of <math>\mu</math>P 8085.</li> <li>• Understand instruction set and programming of <math>\mu</math>P 8085.</li> <li>• Understand 8051 family and architecture of <math>\mu</math>C 8051</li> </ul>
	<b>Sem.-IV</b>	<b>Digital modulation and mobile telephone systems</b> <b>Paper No. VII</b>	<p>After studying this course the students are able to –</p> <ul style="list-style-type: none"> <li>• Understand analog pulse modulation techniques viz. PAM, PWM &amp; PPM.</li> <li>• Understand digital pulse modulation techniques viz. ASK, FSK PSK &amp; BPSK.</li> <li>• Understand mobile telephone system and networks Viz GSM, CDMA, TDMA &amp; FDMA.</li> </ul>
		<b>Microcontroller and Embedded Systems</b> <b>Paper No. VIII</b>	<p>After studying this course the students are able to –</p> <ul style="list-style-type: none"> <li>• Understand addressing modes and instruction sets of <math>\mu</math>C 8051.</li> <li>• Understand facilities in <math>\mu</math>C 8051 viz. timer, time delay calculations in different modes and serial communications.</li> <li>• Understand programming of <math>\mu</math>C 8051 and real world interfacing.</li> <li>• Introduction to embedded system and programming in C.</li> </ul>

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**Course Outcomes**  
**Department of Geology**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>B.Sc.I CBCS</b>	<b>Sem.-I</b>	<b>DSC-21A- Physical Geology paper I</b>	<ol style="list-style-type: none"> <li>1. The students will get introduced to the subject Geology and it's scope.</li> <li>2. They will get the introductory knowledge of the Solar system and the Earth.</li> <li>3. The students will understand the Concepts of origin of the Earth, different methods to determine the age of the Earth and interior of the Earth.</li> <li>4. The students will go through the weathering concept.</li> <li>5. They will get the knowledge of earthquakes, measurement of earthquakes, scale of earthquake and its causes.</li> <li>6. They will know the types, products and causes of volcano.</li> </ol>
		<b>DSC-22A- Structural Geology paper II</b>	<ol style="list-style-type: none"> <li>1. The students will know the basics of Structural Geology.</li> <li>2. The students can be able to differentiate and describe the topographic and Geological maps.</li> <li>3. They will know about the use of Brunton and Clinometer compass in the laboratory and in the field as well.</li> <li>4. The students will get knowledge of different structures like folds, faults, joints and unconformities and their types and significance.</li> </ol>
	<b>Sem.-II</b>	<b>DSC 21B: Crystallography Paper-III</b>	<ol style="list-style-type: none"> <li>1. The students will understand definition of a crystal and elements of a crystal.</li> <li>2. They will know the different aspects of crystallography, like interfacial angle, crystallographic axes and angles.</li> <li>3. The students will be able to determine the parameters and indices of the crystals according to their systems and classes and will study the classification of crystal systems and know the elements of symmetry.</li> <li>4. The students will identify all the aspects of crystals of normal class of all the systems.</li> <li>5. They will gain the knowledge of chemical bonding in minerals, definition of mineral, and characteristics of minerals related to all the crystal systems.</li> </ol>

		<b>DSC-22B- Mineralogy Paper IV</b>	<ol style="list-style-type: none"> <li>1. The students will be able to describe physical properties of major mineral groups.</li> <li>2. The students will get the knowledge to differentiate all the major mineral groups depending on their chemical composition, crystal system, and physical properties.</li> <li>3. They will get the knowledge to differentiate ordinary and polarized light.</li> <li>4. The student will get the knowledge of polarizing microscope and its parts and functioning.</li> <li>5. The student will get the knowledge of optical properties of minerals in plane polarized light and between crossed nicols and can differentiate the common rock forming minerals depending on optical properties.</li> </ol>
<b>B.Sc. II CBCS</b>	<b>Sem.-III</b>	<b>DSC- 21C – Igneous Petrology paper No. V</b>	<ol style="list-style-type: none"> <li>1. The students will get the knowledgw of magma, it's composition, types and origin.</li> <li>2. The students will be familiar with the knowledge of forms and textures of igneous rocks.</li> <li>3. They will know the different processes of magma differentiation and role of volatiles in it..</li> <li>4. The students will acquire the knowledge of processes of assimilation during the magmatism.</li> <li>5. They will be familiar to the classification of igneous rocks based on different aspects.</li> <li>6. The students will go through the processes of crystallization of unicomponent magma, bicomponent magma and ternary magma.</li> </ol>
		<b>DSC-22C- Sedimentary and Metamorphic Petrology paper No. VI</b>	<ol style="list-style-type: none"> <li>1. The students will get the knowledge of processes of formation of sedimentary rocks depending on different conditions.</li> <li>2. The students will understand the textures and structures of sedimentary rocks based on different aspects.</li> <li>3. They will go through the different depositional environments of sedimentation.</li> <li>4. They will get the basic information of metamorphism and agents of metamorphism.</li> <li>5. The students will get the basic knowledge of types of metamorphism.</li> <li>6. They will know the zones, grades and outline of facies of metamorphism..</li> </ol>

			7. They can differentiate the metamorphic rocks depending on their textures and structures.
	<b>Sem.-IV</b>	<b>DSC-21D- Stratigraphy paper No. VII</b>	<ol style="list-style-type: none"> <li>1. The students will understand basic principles of stratigraphy.</li> <li>2. They will study the Geological Time Scale and stratigraphic classification.</li> <li>3. The student will study the Physiographic divisions of India.</li> <li>4. Student will be capable to differentiate Precambrian successions of India, and will be able to describe the different Phanerozoic successions in Palaeozoic, Mesozoic and Cenozoic successions/formations.</li> <li>5. They will study the type localities like Gondwana flora and fauna and Deccan Volcanic Province.</li> </ol>
		<b>DSC- 22D - Palaeontology paper No. VIII</b>	<ol style="list-style-type: none"> <li>1. The students will get the knowledge about the Palaeontology and fossils, particularly binomial nomenclature in taxonomy, modes of preservation, conditions of fossilization and significance of fossils.</li> <li>2. They will acquire the knowledge of morphology, geological distribution and age of different invertebrate fossil Phylum.</li> <li>3. The students will get the knowledge of microfossils, particularly Foraminifera and its significance.</li> <li>4. They will go through the study of Vertebrate palaeontology and plant fossils as well.</li> </ol>
<b>B.Sc. III CBCS</b>	<b>Sem.-V</b>	<b>DSE-41E – Economic Geology Paper No. –IX</b>	<ol style="list-style-type: none"> <li>1. The students will get knowledge of concept of ore deposits, ore minerals, gangue minerals; tenor of ores; strategic, critical and essential minerals.</li> <li>2. They will get the knowledge of different processes of formation of ore deposits.</li> <li>3. The students will study all the metallic and non-metallic ore minerals.</li> <li>4. They will go through the formation and distribution of coal and petroleum in India.</li> </ol>
		<b>DSE-42E - Hydrogeology Paper No. X</b>	<ol style="list-style-type: none"> <li>1. The students will understand hydrogeology, hydrological cycle and hydrological parameters and water bearing properties of rocks as well.</li> <li>2. The students will get knowledge of origin and sources of groundwater and go through the vertical distribution of groundwater.</li> <li>3. They will get the knowledge of types of aquifers and different methods of groundwater exploration.</li> <li>4. They will go through the movement of groundwater through Darcy's law.</li> </ol>

			5. The students will know the groundwater provinces of India.
		<b>DSE- 43E- Applied Geology – Engineering Geology Paper No. XI</b>	<ol style="list-style-type: none"> <li>1. The students will study the building stones and engineering properties of rocks and soils.</li> <li>2. They will study soil and soil groups of India.</li> <li>3. They will study the geology of bridge sites and types of bridges.</li> <li>4. The students will get knowledge the dams, their types and their geological and environmental considerations.</li> <li>5. They will study the Geological problem of reservoirs; tunnels, their geology, structure, seepage problem and role of water table.</li> </ol>
		<b>DSE-44E- Applied Geology – Prospecting and Mining Geology paper No. XII</b>	<ol style="list-style-type: none"> <li>1. The students will able to understand the techniques of prospecting and elementary idea of geological and geophysical prospecting.</li> <li>2. They will get the knowledge of mineral exploration and sampling methods.</li> <li>3. They will go through the elementary ideas of mining.</li> <li>4. The students will get knowledge of open cast and underground mining methods</li> <li>5. They will know the environmental considerations for mining.</li> </ol>
	<b>Sem.-VI</b>	<b>DSE-41F- Photogeology and Remote Sensing Paper No. – XIII</b>	<ol style="list-style-type: none"> <li>1. The students will able to understand the elementary ideas about photogeology and factors affecting aerial photography and factors affecting scale.</li> <li>2. They will know the fundamentals of remote sensing; remote sensing systems and remote sensing sensors.</li> <li>3. They will know the importance of remote sensing in geology.</li> <li>4. Students will know about types of Indian foreign remote sensing satellites.</li> <li>5. They will be introduced to Digital image processing; will know about fundamental steps in image processing and will get the knowledge of elements of pattern recognition and image classification.</li> <li>6. They will be introduced to GIS, components of GIS and integration of GIS with remote sensing.</li> </ol>
		<b>DSE-42F- Geomorphology and</b>	<ol style="list-style-type: none"> <li>1. The students will get knowledge of basic concepts of geomorphology; slope.</li> <li>2. They will know geomorphological cyclic concept and different cyclic concepts given by different geomorphologists.</li> <li>3. Student will learn geological work of different natural agents.</li> </ol>



		<p><b>Geotectonics Paper No. XIV</b></p>	<ol style="list-style-type: none"> <li>4. The students will get knowledge of earth as a dynamic system, crustal movements and types of mountains.</li> <li>5. They will know the concepts of continental drift, sea-floor spreading and mid-oceanic ridges and paleomagnetism as well.</li> <li>6. They will get detailed knowledge of plate tectonics and tectonic framework of India.</li> </ol>
		<p><b>DSE-43F- Environmental Geology Paper No. XV</b></p>	<ol style="list-style-type: none"> <li>1. The students will get knowledge earth and its spheres; earth material, energy budget.</li> <li>2. They will know solar radiation; global environments and be introduced to concept of global warning and climate change.</li> <li>3. They will be introduced to all possible geological hazards, their mitigation and resource management for it.</li> <li>4. Students will go through energy resources; watershed management, landuse planning, management of water resources and land reclamation.</li> </ol>
		<p><b>DSE-44F- Geochemistry Paper No. XVI</b></p>	<ol style="list-style-type: none"> <li>1. Students will be introduced to geochemistry, they will get basic knowledge about crystal chemistry.</li> <li>2. Students will able to understand atom and atomic structure, types of chemical bonds, coordination number, colloids, ion exchange etc.</li> <li>3. Students will get the elementary idea of periodic table; cosmic abundance of elements, geochemical evolution of the earth and geochemical cycles.</li> <li>4. They will know the Gold Schmidt's geochemical classification of elements.</li> <li>5. Students will able to understand distribution of major, minor and trace elements in all rock types.</li> <li>6. They will be introduced to geochemical thermodynamics, and get the knowledge of isomorphism, polymorphism and isotope geochemistry.</li> </ol>

Shikshan Prasarak Mandal's  
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**Course Outcomes**

Class	Course Code	Course Title	Course Outcomes
<b>B.Sc.-I</b>	<b>Semester - I</b>		
	DSC- 13 A:	BIODIVERSITY OF MICROBES, ALGAE AND FUNGI	<ol style="list-style-type: none"> <li>To impart knowledge of Science is the basic objective of education.</li> <li>Discuss about importance of morphological structure, classification, reproduction and economic importance of Lower Plants.</li> <li>Understand the diversity among Bacteria, Viruses and Algae.</li> <li>Understand the useful and harmful activities of Bacteria, Viruses and Algae.</li> </ol>
	DSC- 14 A:	BIODIVERSITY OF ARCHEGONIATE- Bryophytes, Pteridophytes, Gymnosperms	<ol style="list-style-type: none"> <li>To make the students aware of applications of different plants in various.</li> <li>Impart the knowledge Plant Diversity.</li> <li>To understand scientific terms, concepts, facts, phenomenon and their relationships.</li> <li>The student can get practical skill and knowledge of vegetative plant propagation techniques.</li> </ol>
	<b>Semester - II</b>		
	DSC- 13 B:	PLANT ECOLOGY	<ol style="list-style-type: none"> <li>Students will acquire knowledge regarding vegetation and its analysis.</li> <li>Students will deepen the vegetation types of Maharashtra.</li> <li>Students will know about the floristic regions and plant formation of the planet.</li> <li>Students learned about the interaction between biotic and abiotic components of the environment.</li> </ol>
	DSC 14 B:	PLANT TAXONOMY	<ol style="list-style-type: none"> <li>To get acquainted with the subject in live form and visits to forests.</li> <li>The students can get enough knowledge to identify flora.</li> <li>Impart the Knowledge about Identification and conservation of Medicinal plants.</li> <li>To develop scientific attitude is the major objective to make the students open minded, critical, curious.</li> </ol>
<b>B.Sc.-II</b>	<b>Semester - III</b>		
	DSC C13:	EMBRYOLOGY OF ANGIOSPERMS	<ol style="list-style-type: none"> <li>Understand structure and development in microsporangium and megasporangium.</li> <li>Understand microsporogenesis and megasporogenesis.</li> <li>Know fertilization, endosperm and embryogeny.</li> <li>To provide thorough knowledge about various highly evolved plant groups and their community structure.</li> </ol>
	DSC C14:	PLANT PHYSIOLOGY	<ol style="list-style-type: none"> <li>To study the different metabolic process for synthesis of food material.</li> <li>To become knowledgeable in plant and its water relations.</li> <li>To acquire knowledge in plant growth regulator and</li> </ol>

			<p>its uses, understand the physiology of flowering and photoperiodism.</p> <p>4. Studied the various advanced biotechniques of plant physiology experiments.</p>
<b>Semester - IV</b>			
	DSC D13:	PLANT ANATOMY	<ol style="list-style-type: none"> <li>1. Understand external and internal structure of plants.</li> <li>2. Learn the microscopic technique, familiarize with the external and internal structure of lower and higher group organisms.</li> <li>3. Know various tissue systems.</li> <li>4. Perform the techniques in anatomy.</li> </ol>
	DSC D14:	PLANT METABOLISM	<ol style="list-style-type: none"> <li>1. Understand the growth and developmental processes in plants.</li> <li>2. Students will able to gain knowledge on role of micronutrients in plant growth, their development and understand the mechanism of nitrogen metabolism.</li> <li>3. Acquire knowledge on the physiological functions of plants.</li> <li>4. Learn and understand about the enzymes in plants.</li> </ol>

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**Course Outcomes**  
**Department of Zoology**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>B.Sc.I CBCS</b>	<b>Sem.-I</b>	<b>DSC-15A- Animal Diversity I</b>	<ol style="list-style-type: none"> <li>1. Impart knowledge of biodiversity related to non-chordates from Protista to hemichordata.</li> <li>2. To make the pupils understand the Characters, classification and phylogenetic relations among various phyla of non-chordates.</li> <li>3. To make the pupil aware of importance of biodiversity and its conservation.</li> </ol>
		<b>DSC-16A Animal Physiology</b>	<ol style="list-style-type: none"> <li>1. To make the students understand various normal physiological activities in mammalian body.</li> <li>2. To make the students aware of finely balanced metabolic activities carried out in the body and need for maintaining the homeostasis.</li> </ol>
	<b>Sem.-II</b>	<b>DSC 15B: Cell Biology and Evolutionary Biology</b>	<ol style="list-style-type: none"> <li>1. To impart knowledge of basic structural and functional unit of life and its organization.</li> <li>2. To impart knowledge the structure and functions of various cell organelles.</li> <li>3. To impart knowledge organic evolution and various theories of evolution.</li> <li>4. To impart knowledge evidences of evolution and mass extinctions.</li> </ol>
		<b>DSC-16B- Genetics</b>	<ol style="list-style-type: none"> <li>1. To impart knowledge of basic structural and functional unit of life and its organization.</li> <li>2. To impart knowledge the structure and functions of various cell organelles.</li> <li>3. To impart knowledge organic evolution and various theories of evolution.</li> <li>4. To impart knowledge evidences of evolution and mass extinctions.</li> </ol>
<b>B.Sc. II</b>	<b>Sem.-III</b>	<b>DSC Animal Diversity paper No. V</b>	<ol style="list-style-type: none"> <li>1. Impart knowledge of biodiversity related to chordates from Protochordata to Amphibia.</li> <li>2. To make the pupils understand the Characters, classification and phylogenetic relations among various phyla and classes of prochordata</li> </ol>

<b>CBCS</b>			<p>to amphibian.</p> <ol style="list-style-type: none"> <li>To impart the knowledge of special characters of cephalochordate and amphibian by studying representative like Amphioxus and frog.</li> <li>To make the students understand about the special characters of fish like scales, gills and fins.</li> </ol>
		<b>DSC- - BIOCHEMISTRY paper No. VI</b>	<ol style="list-style-type: none"> <li>To impart knowledge of classification and biological significance of carbohydrates, proteins and lipids.</li> <li>To impart knowledge about nucleic acids and enzymes.</li> <li>To make the students aware about the significance of metal ions to Human.</li> </ol>
	<b>Sem.-IV</b>	<b>DSC- REPRODUCTIVE BIOLOGY paper No. VII</b>	<ol style="list-style-type: none"> <li>The students will get the knowledge about histological structure of female reproductive system in rat and human</li> <li>The students will get the knowledge about histology of male reproductive system in human</li> <li>Student will be capable of understanding the Infertility in male and female and related treatments</li> </ol>
		<b>DSC- APPLIED ZOOLOGY paper No. VIII</b>	<ol style="list-style-type: none"> <li>The students will get knowledge about of role</li> <li>The students will understand Host-parasite Relationship</li> <li>The students will understand the Transmission, Prevention and control of diseases: Tuberculosis, Typhoid</li> <li>The students will understand the Biology, Control and damage of various pests.</li> <li>To impart the knowledge of poultry management</li> </ol>
<b>B.Sc. III CBCS</b>	<b>Sem.-V</b>	<b>DSE-E29 - COMPARATIVE ANATOMY OF VERTEBRATES Paper No. –IX</b>	<ol style="list-style-type: none"> <li>Impart knowledge of comparison of integument and Endoskeleton.</li> <li>To make the pupils understand the comparison of Characters in digestive and respiratory systems of various chordates.</li> <li>Impart knowledge of comparison of Circulatory and Nervous system.</li> </ol>
		<b>DSE-F29- Molecular Cell Biology and</b>	<ol style="list-style-type: none"> <li>To impart knowledge of cell biology concepts-DNA replication, genetic code, DNA damage and repair etc.</li> </ol>

		<p align="center"><b>Animal Biotechnology Paper No. X</b></p>	<ol style="list-style-type: none"> <li>2. To impart knowledge of basic structural and functional unit of protein synthesis</li> <li>3. To impart knowledge the structure and functions of various advanced techniques in biology such as rDNA technology, PCR, Blotting, Cloning, etc.</li> <li>4. To impart knowledge the science of application of biotechnology.</li> <li>5. To impart various biotechniques such as separation and animal cell culture</li> </ol>
		<p align="center"><b>DSE-F30 Biotechniques and Biostatistics Paper No. XI</b></p>	<ol style="list-style-type: none"> <li>1. The students will understand understanding process of Production of cloned and transgenic animals</li> <li>2. The students will get knowledge about animal Culture Techniques and Applications.</li> <li>3. The students will understand concept in Biostatistics.</li> </ol>
		<p align="center"><b>DSE-F31 (AQUATIC BIOLOGY) Paper No. XII</b></p>	<ol style="list-style-type: none"> <li>1. The students will get knowledge the Aquatic Biomes.</li> <li>2. The students will get knowledge of lake and stream freshwater ecosystem.</li> <li>3. To make the students to understand the structure and function of endocrine glands in body.</li> </ol>
	<b>Sem.-VI</b>	<p align="center"><b>DSE-E30 DEVELOPMENTAL BIOLOGY OF VERTEBRATES Paper No. –XIII</b></p>	<ol style="list-style-type: none"> <li>1. To impart knowledge of formation of gametes and events in fertilization.</li> <li>2. To impart knowledge of basic pattern of the cleavage.</li> <li>3. To impart knowledge early embryonic development in chick.</li> <li>4. To impart knowledge the concept of organizer.</li> <li>5. To impart knowledge of cloning technique and ethical issues.</li> </ol>
		<p align="center"><b>DSE-E32 Paper No. XIV (IMMUNOLOGY)</b></p>	<ol style="list-style-type: none"> <li>1. The students will get knowledge of basic concept in immunology.</li> <li>2. The students will get knowledge of Cells and Organs of the immune system.</li> <li>3. The students will get knowledge of Antigens and antibody.</li> </ol>
		<p align="center"><b>DSE-E31 (Applied</b></p>	<ol style="list-style-type: none"> <li>1. To make the pupils understand the economic importance of various</li> </ol>

		<p align="center"><b>Zoology - II</b> <b>Paper No. XV</b></p>	<p>marine crustacean and Molluscan.</p> <ol style="list-style-type: none"> <li>2. To make the students aware about the maintenance of aquarium fishes.</li> <li>3. To make the students to understand the economic importance of apiculture, poultry, dairy and goat farming.</li> <li>4. To generate the interest in prawn culture.</li> <li>5. To impart knowledge of various fishing techniques.</li> </ol>
		<p align="center"><b>DSE-F32 (Insect Vectors and Histology)</b> <b>Paper No. XVI</b></p>	<ol style="list-style-type: none"> <li>1. Students will able to understand the various types of dipteran insect.</li> <li>2. Students will able to understand how mosquitoes act as malaria vector.</li> <li>3. Students will able to understand the Fleas a important insect vectors.</li> <li>4. Students will able to understand the Histology of mammalian organs.</li> </ol>

Shikshan Prasarak Mandal's  
**Gopal Krishna Gokhale College, Kolhapur**  
**Course Outcomes**  
**DEPARTMENT OF ENGLISH**

Class	Semester	Paper Name & Number	Outcomes
B.A. I CBCS	Sem – I & II	Ability Enhancement (AECC 1), (AECC 2) Compulsory Course (Paper-A), (Paper-B) <b>ENGLISH FOR COMMUNICATION</b>	<b>CO-1.</b> The Students will get acquainted with communication skills and they will communicate fluently. <b>CO-2.</b> The Students will get inculcated human values through poems and prose. <b>CO-3.</b> The Students will get improved the language competency.
	Sem – I & II	Discipline Specific Core (DSC- A3) & (DSC –A15) (Paper –I) & (Paper –II) <b>MODERN INDIAN WRITING IN ENGLISH TRANSLATION</b>	<b>CO-1.</b> The Students will get acquainted with translated Modern Indian literature in English. <b>CO-2.</b> The Students will get understand literary form, the short story with reference to the prescribed texts. <b>CO-3.</b> This course will develop literary competence among the students.
B.A. II CBCS	Sem – III & IV	Ability Enhancement Compulsory Course (AECC) Compulsory English (Paper C) & (Paper D) <b>ENGLISH FOR COMMUNICATION</b>	<b>CO-1.</b> The Students will be able to communicate in English language, both oral and written. <b>CO-2.</b> The Students will be able to use English language in their personal, academic and professional lives. <b>CO-3.</b> The Students will get develop essential employability skills. <b>CO-4.</b> The Students will be able to enter in the job market with confidence and the ability to work effectively. <b>CO-5.</b> The Students will be able to understand practicability of the language and soft skills. <b>CO-6.</b> The Students will get encouraged to involve actively in the learning process. <b>CO-7.</b> The Students will get cultivated a broad, human and cultured outlook.
	Sem – III & IV	Discipline Specific Core	<b>CO-1.</b> The students will get introduced film and its relationship to literature.



		(DSC-C5) & (DSC-C29) (Paper III) & (Paper V) <b>LITERATURE AND CINEMA</b>	<b>CO-2.</b> The students will acquire film literacy through a working knowledge of basic film terminology. <b>CO-3.</b> The students will be able to develop critical approaches to engage with film adaptations <b>CO-4.</b> The students will clearly understand literature, through film adaptations of literary texts <b>CO-5.</b> The students will get understand the issues and practices of cinematic adaptations
	<b>Sem – III &amp; IV</b>	Discipline Specific Core (DSC-C6) & (DSC-C30) (Paper IV) & (Paper VI) <b>PARTITION LITERATURE</b>	<b>CO-1.</b> The students will be aware of the partition scenario among <b>CO-2.</b> The students will be able to explain the hidden human dimensions of the partition. <b>CO-3.</b> The students will be able to elaborate on the impact of partition on society.
<b>B.A. III CBCS</b>	<b>Sem – V &amp; VI</b>	Compulsory English- (AECC 5) & (AECC 6) (Paper E) & (Paper F) <b>ENGLISH FOR COMMUNICATION-</b>	<b>After the completion of the course, the students will be able to:</b> <b>CO-1.</b> Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces. <b>CO-2.</b> Face job interviews confidently and efficiently. <b>CO-3.</b> Acquire soft skills required at workplaces and in real life. <b>CO-4.</b> Learn group behavior and team work. <b>CO-5.</b> Learn to value and respect others' opinions and views and develop democratic attitude. <b>CO-6.</b> Face competitive examinations confidently and efficiently with adequate linguistic confidence. <b>CO-7.</b> Acquire professional skills required in media writing such as writing editorials. <b>CO-8.</b> Learn to appreciate and enjoy reading poetry and prose passages. <b>CO-9.</b> Acquire human values and develop cultured outlook.
	<b>Sem – V &amp; VI</b>	Discipline Specific Elective (DSE- E11) & (DSE- E136) Special English (Paper VII) & (Paper XII) <b>INTRODUCTION TO LITERARY CRITICISM</b>	<b>CO-1.</b> Students are able to understand the major trends in criticism. <b>CO-2.</b> Students are able to interpret critical concepts. <b>CO-3.</b> Students are able to study the original contributions to literary criticism. <b>CO-4.</b> Students are acquainted with literary and critical movements. <b>CO-5.</b> Students are able to understand the meaning and appreciate the poems critically.
	<b>Sem – V &amp; VI</b>	Discipline Specific Elective (DSE – E12) & (DSE – E137)	<b>CO-1.</b> Students will be able to trace the development of the poetry in English from the days of Shakespeare to the contemporary India. <b>CO-2.</b> Students will be able to appreciate and analyze the poems properly.

		English Special (Paper VIII) & (Paper XIII) <b>ENGLISH POETRY</b>	<b>CO-3.</b> Students will have a fairly comprehensive view of the Western and Eastern poetic tradition and they will be able to relate it to various literary movements. <b>CO-4.</b> Students will have an insight into poetry and they will be able to make a lively and interesting reading.
	<b>Sem – V &amp; VI</b>	Discipline Specific Elective ((DSE – E13) & (DSE – E138) Special English (Paper IX) & (Paper XIV) <b>ENGLISH DRAMA</b>	<b>CO-1.</b> Students are able to understand different forms of drama. <b>CO-2.</b> Students are able to relate drama to their ideological or socio-political contexts. <b>CO-3.</b> Students are able to improve their creative and imaginative faculties through the reading of drama. <b>CO-4.</b> Students are able to know about various aspects of the drama.
	<b>Sem – V &amp; VI</b>	Discipline Specific Elective (DSE – E14) & (DSE – E139) Special English (Paper X) & (Paper XV) <b>ENGLISH NOVEL</b>	<b>CO-1.</b> Students are able to understand different forms of novel. <b>CO-2.</b> Students are able to relate novels to their ideological or socio-political contexts. <b>CO-3.</b> Students are able to improve their creative and imaginative faculties through the reading of novels. <b>CO-4.</b> Students are able to know about various aspects of the novel.
	<b>Sem – V &amp; VI</b>	Discipline Specific Elective (DSE - E15) & (DSE - E140) English Special Paper XI & XVI <b>LANGUAGE AND LINGUISTICS</b>	<b>CO-1.</b> Students know the concept of communication. <b>CO-2.</b> Students are familiar with varieties of the English language. <b>CO-3.</b> Students know different levels of study of the English language. <b>CO-4.</b> Students know basic units of grammar.

Shikshan Prasarak Mandal's  
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**Course Outcomes**  
**Department of Marathi**

Class	Semester	Paper Name & Number	Outcomes
B.A. I	Sem I and II	Compulsory Generic Elective (CGE-1):मराठी (अभ्यासपत्रिका-अ)  पाठ्यपुस्तक- शब्दसंहिता	<ol style="list-style-type: none"> <li>१) विद्यार्थ्यांची मराठी भाषा आणि साहित्यविषयी अभिरुची विकसित करणे</li> <li>२) मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे.</li> <li>३) विद्यार्थ्यांमध्ये मातृभाषा,राष्ट्रीय एकात्मता आणि उच्च मानवी मुल्यांविषयी जाणीव निर्माण करणे.</li> <li>४) विद्यार्थ्यांचा व्यक्तिमत्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेणे.</li> <li>५) निबंधलेखनाच्या माध्यमातून भाषा उपयोजनाची कौशल्ये विकसित करणे.</li> </ol>
B.A. I	Sem I and II	Discipline Specific Core (DSC-A1) : Marathi (Course-1)  विद्याशाखीय विशेष गाभा (DSC-A1) : मराठी (अभ्यासपत्रिका-१)  पाठ्यपुस्तक – अक्षरबंध	<ol style="list-style-type: none"> <li>१) विद्यार्थ्यांची मराठी भाषा आणि साहित्यविषयी अभिरुची विकसित करणे</li> <li>२) मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे.</li> <li>३) विद्यार्थ्यांमध्ये मातृभाषा,राष्ट्रीय एकात्मता आणि उच्च मानवी मुल्यांविषयी जाणीव निर्माण करणे.</li> <li>४) विद्यार्थ्यांचा व्यक्तिमत्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेणे.</li> <li>५) चित्रपट आणि प्रसार मध्यमे यांच्या लेखन आणि उपयोजनाच्या आकलनाचा अवकाश वाढविणे.</li> </ol>

<p style="text-align: center;"><b>B.A. II</b></p>	<p style="text-align: center;"><b>Sem-III and IV</b></p>	<p>विद्याशाखीय विशेष गाभा (DSC-C1) (अभ्यासपत्रिका -३)</p> <p>साहित्यकृती :काय डेंजर वारा सुटलाय ! (नाटक)</p> <p>मराठी भाषिक कौशल्ये</p>	<p>१) नाटक या वाङ्मय प्रकाराचे आकलन करून घेणे. २) समकालीन नाटकातून नाटककाराच्या समकालाचे प्रतिबिंब कशा प्रकारे प्रकट होते याचा अभ्यास करणे. ३) नाट्याभ्यासाद्वारे प्रयोगरूप नाटक व नाट्यक्षेत्रातील ज्ञानसंपादनास चालना देणे. ४) नाट्याभ्यासातून सभ्यता, संस्कृती, राष्ट्रीय एकात्मता व बंधुता वाढीस लावणे. ५) विद्यार्थ्यांमध्ये संवादलेखन कौशल्ये विकसित करणे.</p> <p>१) आत्मचरित्र या वाङ्मय प्रकाराची ओळख करून देणे. २) इतर वाङ्मयप्रकार आणि आत्मचरित्र यातील अभिव्यक्ती रूपांचा अभ्यास करणे. ३) आत्मचरित्रकाराच्या व्यक्तिमत्त्वाची जडणघडण आणि त्याचा समकाल समजून घेणे. ४) वेगवेगळ्या भारतीय प्रांतातील व परदेशातील जीवनदर्शन समजून घेणे. ५) आत्मवृत्तपर लेखन कौशल्ये विकसित करणे.</p>
<p style="text-align: center;"><b>B.A. II</b></p>	<p style="text-align: center;"><b>Sem-III and IV</b></p>	<p>विद्याशाखीय विशेष गाभा (DSC-C26)अभ्यासपत्रिका-६)</p> <p>साहित्यकृती : जुगाड (कादंबरी)</p> <p>मराठी भाषिक कौशल्ये</p>	<p>१) कादंबरी वाङ्मय प्रकाराची ओळख करून देणे. २) समकालीन कादंबरीतील नव्या अवकाशांचा शोध घेणे. ३) मानवी मूल्यांविषयी जाणीव निर्माण करणे. ४) कादंबरी लेखनाचे विशेष अभ्यासणे. ५) वृत्तांतलेखन कौशल्ये रुजविणे.</p> <p>१) आत्मचरित्र या वाङ्मय प्रकाराची ओळख करून देणे. २) इतर वाङ्मयप्रकार आणि आत्मचरित्र यातील अभिव्यक्ती रूपांचा अभ्यास करणे.</p>

			<p>३) आत्मचरित्रकाराच्या व्यक्तिमत्त्वाची जडणघडण आणि त्याचा समकाल समजून घेणे.</p> <p>४) वेगवेगळ्या भारतीय प्रांतातील व परदेशातील जीवनदर्शन समजून घेणे.</p> <p>५) आत्मवृत्तपर लेखन कौशल्ये विकसित करणे.</p>
<b>B.A. III</b>	<b>Sem-V and VI</b>	<p>विद्याशाखीय विशेष निवड (DSE-E1)</p> <p>साहित्यविचार</p> <p>Paper No.7 &amp; 12</p>	<p>१) पौर्वात्य, पाश्चात्य व आधुनिक भारतीय साहित्यशास्त्राचे स्वरूप समजावून घेणे.</p> <p>२) ललित व ललितेतर साहित्याचे स्वरूप समजून घेणे.</p> <p>३) साहित्य प्रयोजनांचे आकलन करून घेणे.</p> <p>४) साहित्याची निर्मिती प्रक्रिया आणि त्याचे स्वरूप आकलन करून घेणे.</p> <p>५) शब्दशक्तीचे आकलन करून घेणे.</p> <p>६) साहित्यातील रसाचे स्वरूप व रसप्रक्रिया समजून घेणे.</p> <p>७) साहित्य भाषेचे आकलन करून घेणे.</p> <p>८) भाषेतील छंद व वृत्त्ये यांचा अभ्यास करणे.</p>
<b>B.A. III</b>	<b>Sem-V and VI</b>	<p>विद्याशाखीय विशेष निवड (DSE-E2)</p> <p>मराठी भाषा व भाषाविज्ञान</p> <p>Paper No.8 &amp; 13</p>	<p>१) भाषोत्पत्तीचा अभ्यास करणे.</p> <p>२) भाषावाज्ञानाचा परिचय करून घेणे.</p> <p>३) भाषाविज्ञान आणि मराठी भाषा यांचा सहसंबंध जाणून घेणे.</p> <p>४) मराठी भाषेविषयी विद्यार्थ्यांमध्ये आवड विकसित करणे.</p> <p>५) स्वनविचार, रूपविचार व वाक्यविचार यांचा परिचय करून घेणे.</p> <p>६) मराठी भाषेची वर्णव्यवस्था समजून घेणे.</p> <p>७) ध्वनी व अर्थपरिवर्तनाची कारणे व प्रकार यांची माहिती करून घेणे.</p> <p>८) प्रमाण भाषेचे स्वरूप व विशेष अभ्यासणे.</p>

			९) बोलींचे स्वरूप व विशेष समजून घेणे.
<b>B.A. III</b>	<b>Sem-V and V</b>	<b>विद्याशाखीय विशेष निवड (DSE-E3)</b> <b>मध्ययुगीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते इ.स. १५००)</b> <b>Paper No.9 &amp; 14</b>	१) मध्ययुगीन मराठी वाङ्मयाचा कालिक अभ्यास करणे. २) मध्ययुगीन मराठी वाङ्मयाचा स्थूल परिचय करून घेणे. ३) मध्ययुगीन मराठी वाङ्मयाचे स्वरूप, वैशिष्ट्ये अभ्यासणे. ४) मध्ययुगीन मराठी वाङ्मयातील महत्वाचे ग्रंथकार आणि ग्रंथ यांचा स्थूल परिचय करून घेणे. ५) मध्ययुगीन मराठी वाङ्मयाच्या गद्य, पद्य रचनेचे विशेष अभ्यासणे. ६) बखर वाङ्मय आणि शाहिरी वाङ्मय यांचे स्वरूप विशेष अभ्यासणे.
<b>B.A. III</b>	<b>Sem V and VI</b>	<b>विद्याशाखीय विशेष निवड (DSE -E4)</b> <b>मराठी भाषा व अर्थार्जनाच्या संधी</b> <b>Paper No.10 &amp; 15</b>	१) सर्जनशील लेखनप्रक्रिया समजून घेणे. २) वैचारिक लेखनाचे स्वरूप अभ्यासणे. ३) शोधनिबंध व प्रकल्पलेखन कौशल्ये समजून घेणे. ४) आंतरजालावरील मराठी लेखन पध्दती अभ्यासणे. ५) प्रसारमाध्यमांवरील अर्थार्जनाच्या संधी आणि भाषिक कौशल्ये यांचा परिचय करून घेणे. ६) उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थार्जनप्राप्ती संदर्भात ज्ञान संपादन करणे. मुद्रितशोधनाची पद्धत अभ्यासणे.

<b>B.A. III</b>	<b>Sem V and VI</b>	<b>विद्याशाखीय विशेष निवड (DSE-E5)</b> <b>वाङ्मय प्रवाहाचे अध्ययन : मध्ययुगीन पाठ्यपुस्तक : दृष्टांतपाठ Paper No.11 &amp; 16</b>	<p>१) मध्ययुगीन महाराष्ट्र व महानुभाव पंथ यांचा परिचय करून देणे.</p> <p>२) महानुभाव वाङ्मयाच्या प्रेरणा व स्वरूप समजून घेणे.</p> <p>३) महानुभावीय ग्रंथकार केसोबास यांचा परिचय करून घेणे.</p> <p>४) दृष्टांतपाठातील आशयस्वरूप व अभिव्यक्ती विशेष अभ्यासणे.</p> <p>५) दृष्टांतपाठातील आशयस्वरूप व अभिव्यक्ती विशेष अभ्यासणे.</p> <p>६) ललित गद्य वाङ्मयप्रकाराचे स्वरूप अभ्यासणे.</p> <p>७) व्यक्तिचित्र संकल्पना व स्वरूप समजून घेणे.</p> <p>८) प्रवाहानुरूप मराठीतील व्यक्तिचित्रांचे स्वरूप अभ्यासणे.</p> <p>९) व्यक्तिविशेषांचे आकलन करून घेणे.</p>
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Shikshan Prasarak Mandal's  
**Gopal Krishna Gokhale College, Kolhapur.**  
**Course Outcomes**  
**Department of Hindi**

Class	Semester	Paper Name & Number	Outcomes
बी. ए. भाग I	Sem I and II	(CBCS) पेपर I, II	<p><b>पाठ्यक्रम का उद्देश :-</b></p> <p>छात्रों की हिंदी साहित्य के प्रति रुचि बढ़ना तथा साहित्य कि विविध विधाओं से परिचित कराना !</p> <p>छात्रों को हिंदी के प्रतिनिधी अदयकारों एवं कवियोंसे परिचय कराना !</p> <p>छात्रों से हिंदी भाषा के श्रवण, पठण एवं लेखन की क्षमताओं को विकसित कराना !</p> <p>छोत्रों मे नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण कराना !</p> <p>छोत्रों मे राष्ट्र के पति प्रेम, राष्ट्रीय ऐक्य स्थापना एवं सामाजिक प्रतिबद्धता हेतु राष्ट्रभाषा हिंदी का प्रचार प्रसार करना !</p>
बी. ए. भाग II	Sem-III and IV	पेपर क्र. III अस्मितामूलक विमर्श और हिंदी राष्ट्र ----- V- रोजगार परक हिंदी	<p><b>पाठ्यक्रम का उद्देश :-</b></p> <p>कथा साहित्य का स्वरुप, तत्व एवं प्रकारों का अहयवन कराना !</p> <p>सामीक्षा मानदंडो के आधार पर कथा साहित्य का अध्ययन कराना !</p>



		साहित्य !	कथा और कथेतर साहित्य का वर्तमान प्रासंगिकता के साथ अध्ययन कराना ! रोजगार उन्मुख शिक्षा एवं कोशल्य प्रदान कराना ! कार्यालय और व्यवसाय में हिंदी प्रयोग का कौशल ज्ञान विकसित कराना ! अनुवाद और व्यवहारिक लेखन का महत्व परिचित कराना !
बी. ए. भाग II	Sem-III and IV	पेपर क्र.- IV- हिंदी संतकाव्य तथा राष्ट्रीय काव्यधारा पेपर क्र. - VI - अस्मितामूलक विमरी और हिंदी पद्य साहित्य	<b>पाठ्यक्रम का उद्देश :-</b> छात्रों को मध्यकालीन हिंदी कवियों से परिचित कराना ! छात्रों में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण कराना ! छात्रों में हिंदी भाषा के श्रवण, पठन एवं लेखन की क्षमता को विकसित कराना ! छात्रों में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तर दायित्व के प्रति आस्था निर्माण कराना !
बी. ए. भाग II	Sem-III and IV	पेपर क्र. - VII & XII :- <u>विधा विशेष का अध्ययन</u> DSE - E 131	<b>पाठ्यक्रम का उद्देश :-</b> नाटककार कुसुम कुमार की बहुमुखी प्रतिमा से परिचित कराना ! नाटककार कुसुम कुमार के साहित्य से परिचित कराना ! नाटककार कुसुम कुमार की विचारधारा से परिचित कराना ! कुसुम कुमार के निर्धारित ग्रंथ का सूक्ष्म आलोचनात्मक अध्ययन कराना !
बी. ए. भाग III	Sem-V and V	पेपर क्र. - VIII & XIII :- <u>साहित्यशास्त्र</u> DSE - E 132	<b>पाठ्यक्रम का उद्देश :-</b> साहित्य निर्मिती का बोध कराना !

			<p>साहित्य I काव्य के विभिन्न, भेदोंसे, अंगों से परिचित कराना !</p> <p>समीक्षा सिद्धांतों से परिचित कराना !</p> <p>साहित्य के तत्वों से परिचित कराना !</p> <p>अजंकारों से परिचित कराना !</p>
<p>बी. ए. भाग III</p>	<p>Sem-V and VI</p>	<p>पेपर क्र. - IX &amp; XIX :- <u>हिंदी साहित्य</u> <u>का इतिहास</u> DSE - E 133</p>	<p><b>पाठ्यक्रम का उद्देश :-</b></p> <p>हिंदी भाषा तथा साहित्य की विकास यात्रा से अवगत कराना !</p> <p>हिंदी साहित्य की विकास यात्रा में हिंदी भाषा के माध्यम से अलग - अलग विचारधारा और प्रवृत्तियों से अवगत कराना !</p> <p>छात्रों को साहित्य के संदर्भ में विभिन्न साहित्यिक विधाओं के विकास क्रम से परिचित कराना !</p> <p>छात्रों को युगीन सामाजिक, राजनीतिक परिस्थितियों के परिप्रेक्ष्य में हिंदी से अवगत कराना !</p> <p>हिंदी के प्रमुख संत कवि उनकी रचनाएँ और उनका समाज सुधार में योगदान से परिचित कराना !</p> <p>हिंदी साहित्य के अंतर्गत गद्य - पद्य विधा और उसके भेदों उपभेदों से अवगत कराना !</p>
<p>बी. ए. भाग</p>	<p>Sem-V and V</p>	<p>पेपर क्र. - X &amp; XV</p>	<p><b>पाठ्यक्रम का उद्देश :-</b></p>

III		<p><b>:- प्रयोजनमूलक हिंदी</b></p> <p><b>DSE - E</b></p> <p><b>134</b></p>	<p>हिंदी में कार्य करने की रुचि विकसित कराना !</p> <p>रोजगार उन्मुख शिक्षा एवं कौशल्य प्रदान कराना !</p> <p>सरकारी पत्राचार के स्वरूप का परिचय कराना !</p> <p>जनसंचार एवं ईलेक्ट्रॉनिक माध्यमों से परिचित कराना !</p> <p>अनुवाद स्वरूप महत्व तथा उपयोगिता से परिचित कराना !</p> <p>रोजगार परक हिंदी की उपयोगिता स्पष्ट</p>
बी. ए. भाग III	Sem V and VI	<p><b>पेपर क्र. - XI &amp; XVI :- भाषा विज्ञान और हिंदी भाषा</b></p> <p><b>DSE - E</b></p> <p><b>135</b></p>	<p><b>पाठ्यक्रम का उद्देश :-</b></p> <p>भाषा के विविध रूपों का परिचय कराना !</p> <p>भाषा विज्ञान का सामान्य परिचय कराना !</p> <p>हिंदी भाषा एवं लिपि के उदभव और विकास का परिचय कराना !</p> <p>भाषा की शुद्धता के प्रति छात्रों को जागृत कराना !</p> <p>मानक हिंदी वर्तनी और व्याकरण से छात्रों को परिचित कराना !</p>

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**Course Outcomes**  
**Department of Economics**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>B.A.I CBCS</b>	<b>Sem.-I</b>	<b>DSC-3A- Indian Economics Paper I</b>	<ol style="list-style-type: none"> <li>1. The students will understand the various dimensions of , as also the challenges ,confronting the Indian economy.</li> <li>2. The student will understand the present situation of Indian Economy.</li> </ol>
	<b>Sem.-II</b>	<b>DSC 3B: Indian Economy Paper-II</b>	<ol style="list-style-type: none"> <li>1. The students will understand the policies and performance of major sectors in Indian Economy.</li> <li>2. The students will understand the economic reforms introduced in India since 1991.</li> </ol>
<b>B.A. II CBCS</b>	<b>Sem.-III</b>	<b>Macro Economics -I (Paper-III)</b>	<ol style="list-style-type: none"> <li>1. The students will understand important concepts, theories and policies in the working of the economy.</li> <li>2 .The students will apply various concepts in the process of policy making, planning of measures to ensure and achieve the fundamental objectives of Macroeconomic policy.</li> </ol>

		<b>Money and Banking Paper No. - IV</b>	<ol style="list-style-type: none"> <li>1. To create the awareness among the students and Job Prospects in Banks and Financial Sector.</li> <li>2. The Student will understand the operation of banks and financial institutions with practical inputs.</li> </ol>
	<b>Sem.-IV</b>	<b>Macro Economics - II (Paper-V)</b>	<ol style="list-style-type: none"> <li>1.The students will understand aggregative economics which examines the interrelations among the various aggregates.</li> <li>2.The students will understand the basic theoretical framework underling in the field of macroeconomics.</li> </ol>
		<b>Banks and Financial Markets Paper No. - VI</b>	<ol style="list-style-type: none"> <li>1. To create the awareness among the students and Job Prospects in Banks and Financial Sector.</li> <li>2.The Student will understand the operation of banks and financial institutions with practical inputs.</li> </ol>
<b>B.A. III CBCS</b>	<b>Sem.-V</b>	<b>Principles of Micro Economics- I (Elective Course- 7) DSE E-71</b>	<ol style="list-style-type: none"> <li>1.The students will Explain what economics is and explain why it is important</li> <li>2.The students will Understand consumer decision making and consumer behaviour</li> <li>3.The students will Define the concept of utility and satisfaction</li> <li>4.The students will Derive revenue and cost figures as well as curves</li> <li>5. The students will Understand producer decision making and producer behaviour.</li> </ol>

		<p><b>Economics of Development</b> (Elective Course- 8) DSE – E - 72</p>	<ol style="list-style-type: none"> <li>1. The students will Identify the dimensions of development.</li> <li>2.The students will Distinguish the fundamental and contemporary development debate</li> <li>3.The students will Know the theories of economic development</li> <li>4. The will Realise the role of state in economic development.</li> </ol>
		<p><b>International Economics- I</b> (Elective Course- 9) DSE – E 73</p>	<ol style="list-style-type: none"> <li>1. The students will Explain international trade.</li> <li>2.The students will Understand the measurement of gains from international trade</li> <li>3. The students will Distinguish different rates of exchange.</li> </ol>
		<p><b>Research Methodology in Economics- I</b> (Elective Course- 10) DSE – E 74</p>	<ol style="list-style-type: none"> <li>1. The students will get acquainted with the basic concepts of research and its methodologies.</li> <li>2. The students will select and define appropriate research problem and parameters.</li> </ol>
		<p><b>History of Economic Thoughts- I</b> (Elective Course- 11) DSE – E 75</p>	<ol style="list-style-type: none"> <li>1.The students will understand the basic economic ideas of various economic thinkers of the world</li> <li>2. The students will understand the development of economic thoughts.</li> </ol>

	<b>Sem.-VI</b>	<b>Principles of Micro Economics- II</b> (Elective Course- 12) DSE E 196	1.The students will identify the market structure 2.The students will analyse the economic behavior of individual firms and markets 3.The students will analyse a firm’s profit maximizing strategies under different market conditions 4. The students will understand the factor pricing.
		<b>Economics of Planning</b> (Elective Course- 13) DSE – E 197	1.The students will get acquainted with economic planning and its importance in development 2.The students will get acquainted with development of planning and planning machinery in India 3.The students will evaluate sectorial performance of the Indian economy 4. the students will compare and analyses Indian models of economic development.
		<b>International Economics- II</b> (Elective Course- 14) DSE – E 198	1.The students will distinguish between balance of trade and balance of payments 2. The students will analyze the balance of payments 3.The students will understand the various types of foreign capital 4.The students will analyses the impact of international institutions on Indian economy
		<b>Research Methodology in Economics- II</b> (Elective Course- 15)	1.The students will understand the sampling techniques as a method of data collection 2. The students will use techniques of data analysis in research. 3. The students will write a research report and thesis.

		<b>DSE – E - 199</b>	4. The students will write a research proposal (grants) .
		<b>History of Economic Thoughts- II</b> <b>(Elective Course- 16)</b> <b>DSE – E 200</b>	1. The students will understand the economic concepts and theories of Neo-Classical and Indian thinkers. 2. The students will understand the development of economic thoughts.



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**Course Outcomes**  
**Department of Geography**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>B.A. I CBCS</b>	<b>Sem.-I</b>	<b>DSC 1 - Physical Geography Paper No I</b>	<ol style="list-style-type: none"> <li>1. The students will get introduced to the subject of Physical Geography.</li> <li>2. They will get the introductory knowledge of the scope of the Physical Geography.</li> <li>3. The students will understand the branches of Physical Geography.</li> <li>4. The students will go through the concept of Atmosphere.</li> <li>5. They will get the knowledge of Composition and Structure of the Atmosphere.</li> <li>6. The students will go through the concept of Insolation: Factors affecting on Insolation.</li> <li>7. They will get the detail information about Temperature: Distribution of temperature (Vertical and Horizontal).</li> <li>8. The students will go through Atmospheric Pressure: Belts and Planetary Winds.</li> <li>9. They will get the introductory knowledge of the Lithosphere.</li> <li>10. The students will go through concept of Wagner's Continental Drift Theory.</li> <li>11. They will understand the causes and effect of Earthquakes and Volcano.</li> <li>12. The students will understand the Denudation Processes.</li> </ol>

	<b>Sem.-II</b>	<b>DSC 2 Human Geography Paper No II</b>	<ol style="list-style-type: none"> <li>1. The students will get introduced to the subject of Human Geography</li> <li>2. The students will understand definition of Human Geography.</li> <li>3. They will know the different aspects of branches and Importance of Human Geography.</li> <li>4. The students will be able to determine the parameters and indices of the population.</li> <li>5. The students will identify all the aspects of Population Geography.</li> <li>6. They will gain the knowledge of Migration and its types.</li> <li>7. Students will get more information of the Settlement Geography.</li> <li>8. They understood the concept in the Agricultural Geography.</li> <li>9. They will go through the different types of Agricultural, Factor affecting on it.</li> </ol>
<b>B.A. II CBCS</b>	<b>Sem.-III</b>	<b>DSC 3 Soil Geography Paper No III</b>	<ol style="list-style-type: none"> <li>1. Students will know soil geography which is the fundamental branch of Physical Geography.</li> <li>2. Students will understand the basics and fundamental concepts of soil geography.</li> <li>3. Students will understand soil is key resource for the development of any country.</li> <li>4. They will aware about process of soil formation and development as well as soil Properties.</li> <li>5. Students will know the classification, characteristics and distribution of soils.</li> <li>6. Students will understand the concepts related to soil degradation and erosion, causes and controlling factors of soil erosion, conservation of soils.</li> <li>7. They will know the concept, need and methods soil of management</li> </ol>
	<b>Sem.-III</b>	<b>DSC 4 Resource Geography Paper No IV</b>	<ol style="list-style-type: none"> <li>1. Student will understand the concept and classification of Resources.</li> <li>2. They will know examine the major resources (water, forest, energy and human) with their Distribution, utilization and problems.</li> <li>3. Students will study the sustainable resource development.</li> <li>4. They will know the cartographic techniques in the Geography.</li> <li>5. They will understand the basics in Cartography and Map making.</li> </ol>
	<b>Sem.-IV</b>	<b>DSC 5 Oceanography paper No. V</b>	<ol style="list-style-type: none"> <li>1. Students will know oceanography is the fundamental branch of Physical Geography.</li> <li>2. They will know the basic and fundamental concepts of oceanography.</li> </ol>

			<ol style="list-style-type: none"> <li>3. Students will understand marine is key resource for the development of any country.</li> <li>4. Students will know physical and chemical properties of oceans.</li> <li>5. They will know types of oceanic currents and currents of Atlantic, Pacific and Indian oceans.</li> <li>6. Students will know hypsographic curve, wind rose, iso-salinity lines and isotherms</li> </ol>
		<b>DSC 6 Agricultural Geography paper No. VI</b>	<ol style="list-style-type: none"> <li>1. The students will get the knowledge of Definition, Nature, Scope and Significance of Agricultural Geography.</li> <li>2. The students will be familiar with the knowledge of Evolution of agriculture: Ancient, Medieval and Modern Period.</li> <li>3. They will know the different processes of Systems and Land-use.</li> <li>4. The students will acquire the knowledge of processes of Nomadic Herding, Livestock Ranching, Shifting Cultivation, Intensive Subsistence Farming, Commercial Farming and Horticulture.</li> <li>5. They will be familiar to the Von Thunen's Theory of Agricultural land-use.</li> <li>6. The students will go through the processes of regionalization and its problem.</li> <li>7. They will understand the problems in the Agricultural Sector.</li> <li>8. Students will understand the sustainable Agriculture.</li> </ol>
<b>B.A. III CBCS</b>	<b>Sem.-V</b>	<b>DSC 7 Evolution of Geographical Thought Paper No. VII</b>	<ol style="list-style-type: none"> <li>1. The students will get knowledge of Ancient Periods.</li> <li>2. They will understand of Greeks and Romans philosophers.</li> <li>3. They will get the knowledge of Muslim World.</li> <li>4. The students will study European philosophers.</li> <li>5. They will go through the Humbol, Ritter, Blache, Brunhes,Saur, Huntigton, Mackinder and Herbertson.</li> <li>6. They will study Dualisms in Geography.</li> <li>7. They will understand Trends in Geography.</li> </ol>
		<b>DSC 8 Geography of India Paper No. VIII</b>	<ol style="list-style-type: none"> <li>1. The students will understand Physical Profile of India.</li> <li>2. The students will get knowledge of Soil and Forest in India.</li> <li>3. They will get the knowledge of Minerals and Power Resources.</li> <li>4. They will go through the Agriculture and Industry</li> <li>5. The students will know about the trends in Indian economy.</li> </ol>

		<p align="center"><b>DSC 9 Population Geography Paper No. IX</b></p>	<ol style="list-style-type: none"> <li>1. The students will study definition, nature and scope of Population Geography.</li> <li>2. They will study Population growth and distributions.</li> <li>3. They will study the Population dynamics.</li> <li>4. The students will get knowledge the concept of Fertility, Mortality, Migration.etc</li> <li>5. They will study the Composition and Characteristics</li> <li>6. They will study Age, Sex, and Literacy: Causes, Effect and Measures</li> </ol>
	<b>Sem.-VI</b>	<p align="center"><b>DSC 10 Economic Geography Paper No. X</b></p>	<ol style="list-style-type: none"> <li>1. In depth understanding about the economic geography.</li> <li>2. Detailed knowledge about locational factors of economic activities with special reference to agriculture and industry.</li> <li>3. Detailed understanding of the basics concepts related to manufacturing and major manufacturing industries (selected countries) of the world.</li> <li>4. Understanding of the transport and trade.</li> </ol>
		<p align="center"><b>DSC 11 Urban Geography Paper No. XI</b></p>	<ol style="list-style-type: none"> <li>1. The students will get knowledge of basic concepts of geomorphology; slope.</li> <li>2. The students were known the importance of urban settlements through urban Geography.</li> <li>3. The students understood the types of Urban Settlements, Site and Situations.</li> <li>4. The students were familiar with an idea of relationship between human activities and urban development.</li> <li>5. Detail understanding of students regarding present urban problems and students are capable to handling of present problematic situations in urban areas.</li> <li>6. The students are developed as a good urban planner and environmental conservator</li> </ol>
		<p align="center"><b>DSC 12 Political Geography Paper No. XII</b></p>	<ol style="list-style-type: none"> <li>1. The students will get knowledge earth and its spheres; earth material, energy budget.</li> <li>2. The students are fully aware about the Political geography as a fundamental branch of Human Geography.</li> <li>3. The students are familiarized with the basics and fundamental concepts and Theories of Political Geography.</li> <li>4. The students are aware about resource conflicts and politics of displacement.</li> </ol>



ShikshanPrasarakMandal's  
**Gopal Krishna Gokhale College, Kolhapur.**  
**Course Outcomes**  
**Department of History**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>B.A. I</b>	<b>SemI and II</b>	<b>Rise of Maratha Power (1600-1707) (I) Polity, Society and Economy under the Marathas (1600-1707) (II) PaperI and II</b>	<ol style="list-style-type: none"> <li>1. Evaluate the socio-economic and political condition of Maharashtra in the early 17th century.</li> <li>2. Explain the contributions of immigrants (Marathas) on region.</li> <li>3. Reflect in written and oral form on various aspects of Maharashtra tradition, its heritage and contemporary identity.</li> <li>4. Explain the reasons behind ChhatrapatiShivaji early conflicts with the regional lords and the outsiders.</li> <li>5. Compare socio-economic and political condition of Maratha period and present.</li> </ol>
<b>B.A. II</b>	<b>Sem-III</b>  <b>Sem IV</b>	<b>History of Modern Maharashtra (1900-1960) (CBCS) Paper III</b> <b>History of modern Maharashtra (1960 - 2000) Paper V</b>	<ol style="list-style-type: none"> <li>1. understand the beginnings and growth of nationalist consciousness in Maharashtra</li> <li>2. explain the contribution of Maharashtra to the national movement</li> <li>3. give an account of various movements of the peasants, workers , women and backward classes</li> <li>4. know the background and events which lead to the formation of separate state of Maharashtra</li> <li>5. Acquaint himself with the contribution of eminent leaders of Maharashtra</li> <li>6. Know about the economic transformation of Maharashtra</li> <li>7. Understand the salient features of changes in society</li> <li>8. Explain the growth of education</li> </ol>
<b>B.A. II</b>	<b>Sem-III</b>	<b>History of India (1757- 1857)</b>	<ol style="list-style-type: none"> <li>1. Acquaint himself with significant events leading to establishment of the rule of East India Company</li> </ol>

	<b>Sem IV</b>	<b>(CBCS) History of freedom struggle (1858- 1947)(CBCS)</b>	<ol style="list-style-type: none"> <li>2. Know the Colonial policy adopted ny the company to consolidate its rule in India</li> <li>3. Explain the various revolts against ruke of East India Company</li> <li>4. Understand the events which lead to the growth of nationalism in india</li> <li>5. Acquaint himself with the major events of the freedom struggle under the leadership of Mahatma Gandhi</li> <li>6. Know the concept of communalism and the causes and effects of the partition of India</li> </ol>
<b>B.A. II</b>	<b>Sem-III and IV</b>	<b>Freedom Struggle of India Paper-IV and VI</b>	<ol style="list-style-type: none"> <li>1. Examine the nature of British rule.</li> <li>2. Write analyses of the social, political and economic dynamics of colonization based on primary and secondary sources.</li> <li>3. Appraise the role of British colonial administration on life and society.</li> <li>4. Critically evaluate and compare the divergent paths as well as common patterns in colonial histories of different regions of India.</li> <li>5. Examine the nature of British rule.</li> <li>6. Write analyses of the social, political and economic dynamics of colonization based on primary and secondary sources.</li> <li>7. Appraise the role of British colonial administration on life and society.</li> <li>8. Critically evaluate and compare the divergent paths as well as common patterns in colonial histories of different regions of India.</li> </ol>
<b>B.A. III</b>	<b>Sem-V DSE E-61</b>  <b>Sem VI DSE E- 186</b>	<b>Early India(from beginning to 4<sup>th</sup> c. BC) Paper VII</b>  <b>Ancient India (From 4<sup>th</sup> c. BC to 7<sup>th</sup> c. AD) Paper no XII</b>	<ol style="list-style-type: none"> <li>1. Understand the transition of humans in India from hunters to farmers</li> <li>2. Explain the transition from early to later Vedic Period</li> <li>3. Clarify the causes for the first and second urbanizations</li> <li>4. Give an account of teaching of Gautam Buddha and Vardhamana Mahavir</li> <li>5. Describe the rise and growth of Mauryan Empire</li> <li>6. Explain the silent features of Ashokas Dhamma</li> <li>7. Know the political,economy and religious development which took place in early historic India</li> <li>8. Explaiun the role played by major Satavahana,kushana,gupta and</li> </ol>

			<p>vakataka Kings</p> <p>9. Give an account of the developments in the post gupta period</p> <p>10. Have an informed opinion about the society and culture of ancient India</p>
<b>B.A. III</b>	<b>Sem-V DSE E-62</b>	<b>History of Medieval India (1206-1526 AD) Paper VIII</b>	<ol style="list-style-type: none"> <li>1. Evaluate the socio-economic and political history of Medieval India.</li> <li>2. Interpret the various institutions developed by Medieval rulers.</li> <li>3. Compare the nature of rule.</li> <li>4. Evaluate the significance of the rulers in various fields.</li> <li>5. Comprehend the basic features of various institutions developed in this period.</li> <li>6. Demonstrate the continuity and change in Indian History.</li> <li>6. Compare the system of trade &amp; commerce during the period of Mughals.</li> <li>7. Criticize the nature of village community.</li> <li>8. Link some aspects of fiscals &amp; monetary system of Mughals with other regional rulers.</li> </ol>
	<b>Sem VI DSE E- 187</b>	<b>History of Medieval India (1526-1707)AD Paper XIII</b>	
<b>B.A. III</b>	<b>Sem-V DSE E -63</b>	<b>Age of Revolution Paper IX</b>	<ol style="list-style-type: none"> <li>1. Explain the causes and consequences of the Reformation</li> <li>2. Give an account of the role played by Martin Luther</li> <li>3. Explain the silent features of the Industrial Revolution</li> <li>4. Give an account of the American Revolution</li> <li>5. Explain the causes, effects and major events of French Revolution</li> <li>6. Explain the role of major leaders of the French Revolution.</li> <li>7. Know the causes and consequences of the Glorious Revolution in England</li> <li>8. Explain the concept of Nationalism and account for its rise and spread</li> <li>9. Describe the unification of Italy and Germany</li> <li>10. Give an account of the rise,growth and impact of imperialism</li> <li>11. Explain the signification of the particition of Africa</li> <li>12. Know the life and thoughts of important leaders like Metternich,Karl Marx and Abraham Lincoln</li> </ol>
	<b>Sem VI DSE E-188</b>	<b>Making of Modern world Paper XIV</b>	
<b>B.A. III</b>	<b>Sem V DSE E – 64 Sem VI DSE</b>	<b>Political History of Marathas Paper X</b>	<ol style="list-style-type: none"> <li>1. Describe the political conditions of the Marathas upto the year 1740</li> <li>2. Explain the role of Balaji Bajirao</li> <li>3. Explain the causes and effects if the battle of Panipat</li> </ol>



	<b>E - 189</b>	<b>Polity,Economy and Society under the Marathas Paper no XV</b>	<ol style="list-style-type: none"> <li>4. Understand the political condition of the Marathas after 1761</li> <li>5. Critically analyze the causes for the decline of Maratha power.</li> <li>6. Know the various sources for the writing the history of Marathas</li> <li>7. Explain the significant development in the polity of Marathas</li> <li>8. Describe the economic conditions</li> <li>9. Explain the social conditions</li> </ol>
<b>B.A. III</b>	<b>Sem V DSE</b> <b>E – 65</b>  <b>Sem VI DSE</b> <b>E- 190</b>	<b>History : Its Theory Paper XI</b>  <b>Methods and application of History Paper XVI</b>	<ol style="list-style-type: none"> <li>1. Understand the definition and scope of the subject of History</li> <li>2. Know the process of acquiring historical data</li> <li>3. Explain the process of presenting and writing history</li> <li>4. Understand the methods of writing history</li> <li>5. Understand the nature of archival sources</li> <li>6. Gain conceptual clarity about recent trends in History</li> <li>7. Know about the application of history in Museums</li> <li>8. Explain the concept and scope Heritage tourism</li> </ol>

Shikshan Prasarak Mandal's  
**Gopal Krishna Gokhale College, Kolhapur.**  
**Course Outcomes**  
**Department of Sociology**

Class	Semester	Paper no.& paper name	Outcomes
B.A. I	Sem-I	Introduction to Sociology---1	<ol style="list-style-type: none"> <li>1. Differentiate between sociology and the other social science</li> <li>2. Describe the role that culture plays in affecting group as well as individual behaviours.</li> <li>3. Analyze specific sociological topics utilizing the major theoretical models that are appropriate for each specific topic</li> <li>4. Identify the current goals of sociology compare and contrast the three main sociological theories in sociology.</li> </ol>
	Sem-II	Applied sociology	<ol style="list-style-type: none"> <li>1. Apply social theories to examples of current or historical events</li> <li>2. Define and apply the sociological imagination /sociological perspective</li> <li>3. Identify and apply specific sociological terms and concepts</li> <li>4. Explain how various social locations such as class, race, gender, age and sexuality are vital to the study of sociology and apply them to specific sociological topics.</li> </ol>
B.A. II	Sem -III	Indian sociological problems.--3	<ol style="list-style-type: none"> <li>1. Identify specific social problems.</li> <li>2. Identify current research methods that are utilized for the investigation of social problems.</li> <li>3. Compare and contrast various social problems and/or treatments in terms of their effectiveness.</li> <li>4. Apply the three main social theories to various social problems in society.</li> </ol>
		Social movements in India --4	<ol style="list-style-type: none"> <li>1. Describe the causes and development of collective behaviour, social movements and social change</li> <li>2. Describe the evolution and role of the media in society.</li> <li>3. Describe technology in a sociological context.</li> <li>4. Understand and discuss how we analyze media and technology through various sociological perspective</li> </ol>
	Sem-IV	Gender and violence	<ol style="list-style-type: none"> <li>1. Describe and explain the sociological perspectives on studying women and the social condition of gender.</li> <li>2. Explain how gender affect's women's sex role, socialization, intimate, relationship, the family sexuality and body image.</li> </ol>

			<ol style="list-style-type: none"> <li>3. Identify issues of gender inequality within employment and the economy.</li> <li>4. Identify and evaluate specific issues of health reproduction and the health care system that affects a diverse group of women.</li> </ol>
<b>B.A. III</b>	<b>Sem - V</b>	<b>Western sociological thinkers--7</b>	<ol style="list-style-type: none"> <li>1. The course aims to provide a general introduction to sociological theories and thought of western scholars.</li> <li>2. Define sociological theory, understand its features and describe and illustrate the role of theory in building sociological knowledge.</li> <li>3. Introduce themselves to the classical theories of sociology and contribution of different thinkers in this regard.</li> <li>4. Know the contribution of founding fathers of sociology in developing sociology as an academic discipline</li> </ol>
		<b>Methods of social research-8</b>	<ol style="list-style-type: none"> <li>1. Demonstrate understanding of quantitative and qualitative methods.</li> <li>2. Appropriately select which methods to employ.</li> <li>3. Interpret and analyse data and charts.</li> <li>4. Determine the significance of research findings.</li> </ol>
		<b>Political sociology-9</b>	<ol style="list-style-type: none"> <li>1. Define and differentiate between power and authority</li> <li>2. Describe forms of government and explain politics in India</li> <li>3. Describe the varying theoretical perspective on Government and power.</li> </ol>
		<b>Human rights-10</b>	<ol style="list-style-type: none"> <li>1. Identify and evaluate the historical ,philosophical, political ,and cultural developments.</li> <li>2. Explore global human rights institutions law and processes and assess the impact of their interaction with national and local cultural practices and norms.</li> <li>3. Critically examine the impact of diverse geographic, cultural, and theoretical context on the social acceptance and practical application of human rights norms.</li> <li>4. Synthesize interdisciplinary approaches and contribution to topics, such as gender ,race ,poverty ,violence, and post colonialism within a human rights framework.</li> </ol>
		<b>Sociology of Religion -11</b>	<ol style="list-style-type: none"> <li>1. Explain how major sociological perspectives view religion.</li> <li>2. Explain the basic tents of major world religions.</li> <li>3. Examine religion differences around the world.</li> <li>4. Describe religion in India.</li> <li>5. Identify and discuss historical and contemporary issues in religion.</li> </ol>
	<b>Sem- VI</b>	<b>Indian sociological thinkers-12</b>	<ol style="list-style-type: none"> <li>1. The course aims to provide a general introduction to sociological theory and thought.</li> <li>2. The paper acknowledges the contribution of Indian scholars in the development in sociology.</li> </ol>

		<p>3. Understands the concepts and contribution of Indian social thinkers in the reform of Indian society as well as to enhance knowledge about society.</p> <p>4. Know the contribution of Indian sociologist in the development of sociological thought.</p>
	<b>Methods of social research -13</b>	<p>1. Importance of research design in social research and how to formulate it.</p> <p>2. How to collect data and analyse data and how to write a field report.</p> <p>3. Critically assess research findings.</p> <p>4. compare/contrast research methodologies and research findings.</p>
	<b>Social Anthropology-14</b>	<p>1. The course aims to draw attention mainly to the problems, policies and programmes for the upliftment of the backward section of Indian society and causes of their backwardness.</p> <p>2. The course also light on the socio-economic life of the backward section of Indian society.</p> <p>3. Know the problems faced by the tribes and policies and programmes taken by the Government for the upliftment of tribes.</p> <p>4. Understand social economic and cultural features of tribes.</p>
	<b>Rural Sociology-15</b>	<p>1. The course explores substantive issues in rural sociology .it gives attention to Indian themes.</p> <p>2. Understand and analyse social economic and political aspects of rural society.</p> <p>3. Define and demonstrate democratic decentralization of power and importance of panchaytraj institution in bringing about changes in rural society.</p> <p>4. Demonstrate how caste system operates and its importance in rural society.</p>
	<b>Urban sociology 16</b>	<p>1. The course provides an exposure to key theoretical perspectives for understanding urban life in historical and contemporary contents.</p> <p>2. The course defines urban sociology and demonstrate the nature and scope of urban sociology.</p> <p>3. Develop an understanding about trends of urbanization in India and impact of urbanization on Indian society.</p> <p>4. Develop awareness about urban problems and policies adopted to solve such problems.</p>

**Shikshan Prasarak Mandal's  
Gopal Krishna Gokhale College, Kolhapur  
Course Outcomes  
Department of Political Science**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>BA.I CBCS</b>	<b>Sem.-I &amp; II</b>	<b>Introduction to Political Science Paper – I</b> <b>Indian Constitution Paper – II</b>	<ul style="list-style-type: none"> <li>• Explain meaning, branches, definitions and importance of political sciences.</li> <li>• Explain the concepts political process meaning Nature scope of political theory.</li> <li>• Explain the concept of public administration its meaning, nature, scope and administrative theories.</li> <li>• Explains the inter relations of international policies, foreign policies.</li> <li>• Explain the definitions, meanings, types and importance of state and democracy.</li> <li>• Explain the key concepts of types and Significance of Rights liberty, equality and Justice.</li> <li>• Explain historical background of Indian constitution, philosophy, of Indian Constitution. 8. Elaborate the various stages of constitutional development and interpret the salient features of Indian constitution.</li> <li>• Appreciate fundamental rights and duties and directive principles of policy.</li> <li>• Explain the position of president of India, power and function, nature of India's parliament, role of Prime Minister.</li> <li>• Compare the nature and functions of judiciary system.</li> <li>• Explain the party system, national parties characteristic of local Parties in India.</li> </ul>
<b>BA. II CBCS</b>	<b>Sem.-III &amp; IV</b>	<b>Basic Concept of political science Paper - III</b> <b>Local self-Government and Movements in Maharashtra Paper - V</b>	<ul style="list-style-type: none"> <li>• Explain meaning, nature, and scope of political science.</li> <li>• Evaluate theories of origin of states, meaning, and elements of states. Nation and factors of nationality.</li> <li>• Explain meaning characteristics and theories of sovereignty.</li> <li>• Analyze different political concepts.</li> <li>• Interpret and assess information regarding a variety of political theories.</li> <li>• Study 73rd constitutional amendment and working Rural local self-Government.</li> <li>• Study 74th constitutional amendment and working urban local self-Government.</li> <li>• Explain political and social movements in Maharashtra.</li> <li>• Evaluate Neo movements in Maharashtra.</li> </ul>
		<b>Ancient Indian political thoughts Paper – IV</b> <b>Modern Indian political thoughts Paper - V</b>	<ul style="list-style-type: none"> <li>• Describe the sources and characteristics of ancient Indian political thoughts.</li> <li>• Explain ancient Indian political thoughts about states.</li> <li>• Study republic and local self-institution in ancient India.</li> <li>• Analyze Mandal theory of Kautilya, foreign policies.</li> <li>• Evaluate political thoughts of Lokamanya Tilak, M.K.Gandhi, Dr.B.R.Ambedkar and Jawaharlal Neharu.</li> <li>• Explain Lokamanya Tilak's vies on Nationalism.</li> <li>• Interpret M.K. Gandhi's Concept of truth, Non-violence, Satyagraha, Swarajya and trusteeship.</li> <li>• Comment on Ambedkar's ideas about Casteism, religion, democracy, economy and study his work in social movements.</li> <li>• Describe political ideas of Nehru.</li> </ul>

Shikshan Prasarak Mandal's  
**Gopal Krishna Gokhale College, Kolhapur**  
**Course Outcomes**  
**Department of Psychology**

<b>Class</b>	<b>Semester</b>	<b>Paper Name &amp; Number</b>	<b>Outcomes</b>
<b>BA.I CBCS</b>	<b>Sem.-I</b>	<b>Foundations of Psychology paper I</b>	<ol style="list-style-type: none"> <li>1) Making familiar with the foundations of psychology.</li> <li>2) Acquaintance with cognitive processes, states of consciousness and learning.</li> <li>3) Acquaintance with memory processes.</li> </ol>
	<b>Sem.-II</b>	<b>General Psychology Paper-II</b>	<ol style="list-style-type: none"> <li>1) Making familiar with the general psychology.</li> <li>2) Acquaintance with intelligence, motivation and emotion.</li> <li>3) Acquaintance with personality.</li> </ol>
<b>BA. II CBCS</b>	<b>Sem.-III</b>	<b>Psychology for Living Paper No. III</b>	<ol style="list-style-type: none"> <li>1) Acquaintance with the processes of psychology for living.</li> <li>2) To introduce the concept of living.</li> <li>3) Acquaintance with understanding mental disorder.</li> <li>4) To introduce the various psychotherapies and their uses.</li> </ol>
		<b>Social Psychology Paper No. IV</b>	<ol style="list-style-type: none"> <li>1) Understanding the social process.</li> <li>2) Understanding the social perception.</li> <li>3) Acquaintance with the knowledge of interpersonal attraction.</li> <li>4) Acquaintance with knowledge of the relationship between psychology and physical health.</li> </ol>
	<b>Sem.-IV</b>	<b>Modern Social Psychology Paper No. V</b>	<ol style="list-style-type: none"> <li>1) Acquaintance with the processes of liking and sources of liking.</li> <li>2) Understanding the concept of social influence, conformity and compliance.</li> <li>3) Understanding the prosaically behavior.</li> <li>4) To introduce the concept of aggression, its causes and control.</li> </ol>
		<b>Applied Psychology Paper No. VI</b>	<ol style="list-style-type: none"> <li>1) Understanding the application of the applied psychology.</li> <li>2) Knowledge about the processes of personal control, decision making and personal growth.</li> <li>3) To introduce students the work, career, play and using leisure positively.</li> <li>4) Acquaintance with the making and keeping friends.</li> <li>5) Understanding the concept of love and commitment.</li> </ol>

Shikshan Prasarak Mandal's

## Gopal Krishna Gokhale College, Kolhapur

### Course Outcome

### Department of Commerce

Class	Semester	Paper Name & Number	Title	Outcomes
B.Com-I CBCS	I & II	CC-A3,A4	Management Principles & Applications	<ul style="list-style-type: none"><li>-The importance of management and principles and thoughts.</li><li>-The functional areas of business management.</li><li>-The recent trends in business management.</li></ul>
		CC-A5,A6	Financial Accounting	<ul style="list-style-type: none"><li>-The concepts nature and purpose of financial statements to decision making.</li><li>-How to use a basic basic accounting system to create the data needed to solve a variety of business problems.</li></ul>
		GEC-A1,A2	Principles of Marketing	<ul style="list-style-type: none"><li>-Recent trends in marketing management.</li><li>-Importance of e-commerce in competitive environment.</li><li>-Various factors influencing consumer behaviour and buying decision.</li></ul>
		GEC-B3,B4	Insurance	<ul style="list-style-type: none"><li>-The concepts and types of insurance.</li><li>-The principles of insurance</li><li>-The types of new policy.</li></ul>
B.Com-II CBCS	III & IV	CC-B1,B2	Corporate Accounting	<ul style="list-style-type: none"><li>-To conceptual aspects of corporate accounting.</li></ul>

				<ul style="list-style-type: none"> <li>-Account for the various adjustments related to share capital.</li> <li>- The final accounts of joint stock company.</li> <li>- Explain the concepts of liquidation of companies.</li> </ul>
		CC-B3,B4	Fundamentals of Entrepreneurship	<ul style="list-style-type: none"> <li>-The business environment and its factors.</li> <li>-How to become a successful entrepreneur.</li> <li>-The importance of entrepreneurship as career.</li> </ul>
		CC-B5,B6	Money and financial System	<ul style="list-style-type: none"> <li>-Describe the financial system, explain the market in which money is created, explain how the financial system improves allocation of funds.</li> </ul>
B.Com-III CBCS	V & VI	CCC1,C2	Modern Management Practices	<ul style="list-style-type: none"> <li>-How to bring out of business plan.</li> <li>-How to use knowledge and understanding in creating and managing new venture.</li> <li>-To understand new management techniques for decision making and planning of business.</li> </ul>
		CCC3,C4	Business Regulatory Framework	<ul style="list-style-type: none"> <li>-The basic concepts terms &amp; provisions of business law.</li> <li>-How affect these laws on business , trade and commerce.</li> </ul>
		CCC5,C6	Co-Operative Development	<ul style="list-style-type: none"> <li>-The basic concepts and of co-operation</li> <li>-Detailed study of co-operative movement</li> <li>-The types of co-operative institutes.</li> </ul>
		DAT A1,A2, A3,A4	Advanced Accountancy	<ul style="list-style-type: none"> <li>-Nature of banking company and its financial statements.</li> <li>-The various advanced accounting concepts and its practical approach.</li> </ul>



		DAT B1,B2, B3,B4	Industrial Management	<ul style="list-style-type: none"> <li>-The basic concepts of industrial terms.</li> <li>-The major issue growth of IT industries in India.</li> <li>-How to effects new economic policy on industries.</li> </ul>
		DAT C1,C2, C3,C4	Advanced Costing	<ul style="list-style-type: none"> <li>-Methods of cost techniques</li> <li>-Various method used of costing in production.</li> </ul>