

K. N. Bhise Arts, Commerce and Vinaykarao Patil Science College, Bhosare
Department of Geography

Programme Outcomes, and Programme Specific Outcomes

Sr. No.	Programme	Programme Objectives	Programme Specific Outcomes
1	B. A. Geography	<p>PO 1. Human-Environment Relationship: To aware about environment and how environment affect on human processes and how human activities are effect on environment.</p>	<p>PSO1. Teaching should bring about importance of environment and human activities operating over the Earth Surface.</p>
		<p>PO2. Understanding of The Complexities of Our World: Geography provides students with a highly transferable set of skills and an understanding of the complexities of our world. Learn how economic, social and cultural processes affect health and wellbeing</p>	<p>PSO2 Teaching and practical knowledge bring and to understand the different process active on the earth surface and within the Earth with a high and low magnitude.</p>
		<p>PO3.Social Interaction: Importance of listening to others, Using different ways while speaking in society, Skills of disagreements and to assist in reaching to conclusion in group settings.</p>	<p>PSO 3 General issues from the syllabus are chosen for discussions and debates. In these activities the ability to form opinions, views, to express agreement, disagreement, etc. in socially acceptable ways.</p>
		<p>PO4. Communication Skills: Students will demonstrate the ability to communicate geographic information utilizing both oral and written outlets.</p>	<p>PSO 4 The intension is to develop an approach about Social, Political, and Cultural issues after learning various ideas in the classrooms.</p>
		<p>PO5. Ethical and Social Responsibility: To know value system. To take moral decisions and accept the responsibility for them.</p>	<p>PSO5 To teach ethical values to students belong to different backgrounds and maintain balance Between / among different ethical views.</p>
		<p>PO6.Environment and Sustainability: To understand the issues of environmental consciousness and sustainable development.</p>	<p>PSO6 The aim is to teach importance of ecological balance. The prescribed texts, lessons and poems can be used by teachers for this purpose.</p>
		<p>PO7.Self-directed and Life-long Learning: To gain the ability to engage in independent and life-long learning.</p>	<p>PSO7 To inspire students to gain knowledge and wisdom and teach them that gaining knowledge and wisdom is continuous and unending process apart from financial gain from the acquired knowledge and wisdom</p>

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Course Outcomes

Sr. No.	Course	Course Outcomes
1	B. A. Part – I Sem. I & II Geomorphology	<ol style="list-style-type: none"> 1. To sensitize the students about background knowledge of Geography and Geology. 2. To familiarize the students with some geomorphological concepts and processes takes place on the earth surface and within the earth crust. 3. To sensitize the students about background knowledge of Geography and Climatology. 4. To provide Knowledge about atmospheric phenomena.
2	B. A. Part – I Sem. I & II STD	<ol style="list-style-type: none"> 1. Provide knowledge to students about the development of science and technology and contribution of some scientist. 2. To make acquaint the student with the dynamic aspects of development of science and technology. 3. To understand the scope and content STD in relation to agriculture, transport and communication etc. 4 Provide knowledge to students about the importance of resources, human health and contribution of various scientific research institutes in India.
3	B.com Part – I Sem. I & II Economic and Commercial Geography	<ol style="list-style-type: none"> 1. To understand the scope and content of Economic Geography. 2. To Study the various types of Resources as the basis for various economic activities. 3. To integrate the various factors of economic development and to acquaint the student about dynamic aspects of Economic Geography 4. To understand the scope and content of Commercial Geography. 5.To integrate the various factors of economic development and to acquaint the student about dynamic aspects of Commercial Geography
4	B. Sc. Part – I Sem. I & II Geomorphology	<ol style="list-style-type: none"> 1) To introduce new concept of Physical Geography. 2) To give the knowledge about geomorphology to the students. 3) To give the basic knowledge about disasters occurred at different places on the earth. 4)To make the students familiar with new terms & concepts of climatology and oceanography. 5)To know the constituents of atmosphere and hydrosphere & its dynamic nature. 6) To know the contribution of atmosphere and hydrosphere in making the Earth habitable. 7) To make the students familiar with Physical Geographical data. 8) To train the students with different cartographic techniques. 9)To introduced the students Remote Sensing and Arial Photography
5	B.A. II Sem. III & IV Geography of India	<ol style="list-style-type: none"> 1. To familiarize the students with. Physiography, Rivers and Climate of India. 2. to understand the students Soil, Vegetation and Resource of India 3. To Familiarize the Students with Agriculture and Industries in India. 4. To acquaint the student with the Population, Transport and Trade of India.




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6	B.A. II Sem. III & IV Human Geography	<p>1) To understand the Human Geography as a basic branch of Geography along with the Dichotomy in between environmental determinism and Possibilism and man and environment relationship.</p> <p>2) To acquaint the student with the Human race, Racial Classification and Racial conflicts.</p> <p>3) To understand and familiarize the student with the human life in cold, desert, plateau and mountainous region and its adoption to environment.</p> <p>4) To familiarize the student with the nature & scope of Population Geography with growth and distribution of population.</p> <p>5) To acquaint the student with the basic concepts in population geography and population growth Theories.</p> <p>6) To introduce & understand the components of Population Geography such as migration, population composition with population policies.</p>
7.	B.A. II Sem. III & IV G.T	<p>1. To Acquaint the Student with Basic Concept of Tourism Geography</p> <p>2. To Understand the Factor Affecting the Tourism Geography</p> <p>3. To Familiarize the Students above Classification</p> <p>Main Objective of the course is to Synthesize Students with various factors of Maharashtra in respect of various resources.</p>
8.	B.Sc. II Sem. III & IV Bio-Geography And Soil Science	<p>1. To introduce the students to the basic concepts in Biogeography, So as to enable them in understand the Biogeographical principles through an interdisciplinary approach.</p> <p>2. To acquaint the students to the spatial relationship which exists between man and nature.</p> <p>3. To make the students aware of need of conservation of nature.</p> <p>4.. To acquaint the students with the study of soil, soil elements and soil types.</p> <p>5. To make students aware of soil degradation and soil conservation and its management</p>
9.	B.Sc. II Sem. III & IV Biogeography and Agriculture Geography	<p>1. To introduce the students to the basic concepts in Biogeography, So as to enable them in understand the Biogeographical principles through an interdisciplinary approach.</p> <p>2. To acquaint the students to the spatial relationship this exists between man and nature.</p> <p>3. To make the students aware of need of conservation of nature.</p> <p>4. To acquaint the students with the study of relationship between agriculture activity and geographical environment.</p> <p>5. To course further aims to familiarize the students with the modern techniques used in Agriculture Geography</p>
10	B.Sc. II Geography Practical II & III	<p>1. To introduce the important basic principal of Remote Sensing.</p> <p>2. To enable the students to use various cartographic techniques and interpretation.</p> <p>3. To introduce the use of Statistical techniques in Geographical analysis</p> <p>4. To introduce basic principal of Surveying.</p> <p>5. To enable the students to use various cartographic techniques and</p>

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		interpretation. 5. To familiarize the students with the geographical environment.
11.	B.A. Part III Sem. V Economic Geography	6. To acquaint the student with basic concepts of Economic Geography. 7. To Study the various types of Resources as the basis for various economic activities.
12.	B.A.III Sem. V Development Geography	1. To introduce the students to the Philosophical and Methodological foundation of the geography. 2. To provide information related to the major landmarks in development of geographical thought.
13.	B.A.III Sem. V Urban Geography and	1) To familiarize the students with conceptual theoretical & empirical development in settlement studies in geography and current settlement scenario in the world & India. 2) To provide the students an idea about international & national concerns on settlement issues.
14.	B.A.III Sem. VI Applied Geography	1. To familiarize the students Nature & Scope of Applied Geography. 2. To understand the various issues related to physical environment, human resources and economy ect.
15.	B.A.III Sem. VI Economic Activity	1. To acquaint the students with economic activities i.e. Agriculture, Manufacturing, Transportation economic & Trade and Tourism. 2. To acquaint the students with basic concepts of Regional Planning.
16.	B.A.III Sem. VI Political Geography	1) To sensitize the students with the problems of population growth & environmental degradation in settlement. 2) To familiarize the students with the geographical factors which have a bearing on the political / administrative organization of space. 3) To enhance awareness of multidimensional nature of geo – political space.
17.	B.A.III GEOGRAPHY Practical Paper I	1 To enable the Students to use various cartographic Techniques and interpret. 2 To introduce the importance & basic principles of Remote Sensing, G.I.S & G.P.S.
18.	B.A.III Geography Practical Paper II	1. To acquaint the students with the principles of surveying, its importance & utility in the geographical studies. 2. To introduce the students about importance & use of quantitative methods in the study of geography. 3. To acquaint the students with the field study of physical & cultural aspects



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Department of Botany

Programme Outcome and Programme Specific Outcomes:

Sr. No	Course	Programme Outcomes	Programme Specific Outcomes
1	B.Sc I & II : Botany	<p>Understand plant structures in the context of physiological functions of plants.</p> <p>Understand lipid metabolism in plants.</p> <p>Understand the morphological and structural organization of Cryptogams and Phanerogams.</p> <p>Economics Botany and plant utilization in concern with human life.</p> <p>Diversity of plants</p> <p>National plant wealth .</p> <p>Developmental biology of plants.</p> <p>Industrial application of microorganism</p>	<p>1. Identifying different resources helpful for human life.</p> <p>2. Identifying different groups of plants</p> <p>3. Acquiring knowledge about inheritance, biochemical and metabolic activities.</p> <p>4. Development of horticultural skill.</p> <p>5. Acquiring knowledge about importance of environment.</p>

Course Outcomes

Sr.No	Course	Course Outcomes
1	B.Sc –I Paper I Diversity in non-vascular plants.	<p>1 Developing interest in plant diversity.</p> <p>2 Developing skill of identification of Algae, Fungi and Bryophytes.</p>




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	B.Sc – II Paper V Algae, Fungi, Bryophytes and Industrial application.	3 Creating interest in biological industry.
2	B.Sc –I Paper No. II- Plant Biochemistry, physiology and Ecology. B.Sc –II Paper No .IV-Plant physiology, Ecology and Horticulture.	1. Acquiring basic knowledge about biochemical, physiological mechanism in plants. 2. Imparting knowledge of Horticulture.
3	B.Sc –I Paper III -Diversity in vascular plants. B.Sc –II Paper IV - Pteridophytes, Gymnosperms, Angiosperms and Anatomy.	The student can understand the knowledge about 1. Diversity in vascular plant. 2. Characters of vascular plants and classification of plants. 3. External & internal characters of plants.
4	B.Sc –I Paper III -Diversity in vascular plants. B.Sc –II Paper IV - Pteridophytes, Gymnosperms, Angiosperms and Anatomy.	Students should be able to know 1. Structure of cell. 2. Types of organisms and characteristics. 3. History, distribution, structure and functions of different cell organelles, 4. Transmission of character 5. Mendelism. 6. Resource of plants to fulfill the basic needs.



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Department of History

**Programme Outcomes (Undergraduate Level)
Faculty Arts (Year 2018-19)**

After completing the graduation in the faculty of Arts the students have

- Acquired the knowledge with facts and figures concerned with the subjects such as **History, Geography, Economics, Languages**, etc. Understood the basic concepts, fundamental principles, and various theories in the above mentioned subjects.
- Realized the importance of literature in terms of aesthetic, mental, moral, intellectual development of an individual and accordingly of the society.
- Understood how issues in the social science get influenced by the literature and how the literature can provide solutions to the social issues.
- Gained the analytical ability to analyze the literature and social issues to appreciate the strength and to suggest the improvements for better results.
- Appreciated that social issues are no longer permanent and largely depend on the political and the economical changes.
- Convinced himself/herself that the study of literature and social sciences are not only helpful to evolve better individual and better society but also helpful to make the life of an individual more happy and meaningful.
- Participated in various social and cultural activities voluntarily. Written articles, novels, stories to spread the messages of equality, nationality, social harmony and other human values.
- Emerged as a multifaceted personality who is self-dependent; earning his own bread and butter and also creating opportunities to do so.
- Realized that the pursuit of knowledge is a lifelong process and one can achieve the success only with untiring efforts and positive attitude.
- Developed various communication skills such as reading, listening, speaking, etc., which will be helpful in expressing ideas and views clearly and effectively

I. Program Outcome of Bachelor of Arts (B.A.) Student seeking admission for B.A. programme are expected to imbue with following quality also which help them in their future life to achieve the expected goals.

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



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Department of History

Programme Specifics Outcomes

DEPARTMENT OF HISTORY

The Outcomes of UG Course, B. A. in History

At the completion of B. A. in History the students are able to:

- Understand the basic themes, concepts, chronology and the Scope of Indian History.
- Be Acquaint with the range of issues related Indian History and its distinctive eras.
- Understand the history of the countries other than India with comparative approach.
- Think and argue historically and critically in writing and discussion.
- Prepare for various types of Competitive Examinations Critically recognize the Social, Political, Economic and Cultural aspects of History.
- To study further in the applied field of history as archaeology.



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**Department of History
Course Outcomes**

BA –I Semester I & II

Paper No –I Chhatrapati Shivaji Maharaj and His Times

- Acquaint the great legend of Maharashtra.
- Understand the Political, Social and Cultural progress of Maharashtra in 17th Century.

B.A. part-II, Semester III & IV

IDS paper : -- Social Reformers in Maharashtra

- Acquaintance with the great social reformers and their contribution to the Social change.
- Understanding the Ideal thoughts of social reforms in order to contribute to social evolutionary movement

Optional Paper No- III and V Modern Europe (1750 to 1871)

- Acquaint the students with the socio- Economical and Political development in other countries.
- Understand the contemporary Europe in the light of its background History become aware of the principles, forces, processes and problems of the recent times
- Highlight the rise and growth of Nationalism as a movement in Europe and world

Optional Paper No- IV and VI Modern India (1857 to 1950)

- Understand the Major events of India's freedom Struggle
- Understand the legacy and their contribution to the making of Modern India.
- Promote the Nationalism in youth.

Optional Paper No- VII and XII Ancient India (Up to 650)

- Understand the Political, Socio-economical and Religious development of Ancient India.
- Acquaint the various Institutions, Organizations , Ideas and Legacy in ancient period
- Introduce the Arts and Architect in Ancient era.

Optional Paper No- VIII and XIII History of Mughal India (1526 to 1707)

- Understand the Political, Socio-economical and Religious development of Mughal India.
- Acquaint the various Institutions, Organizations, Ideas and Legacy in Mughal India.
- Introduce the Arts, Architect and Literature of Mughal Period.



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Optional Paper No- IX and XIV Growth and Decline of The Maratha Power (1707 To 1818)

- Acquaint the work of Peshwa's to extend and consolidate the Maratha power.
- Understand the Religious and Socio-economical development under peshwa regime.

Optional Paper No- X and XV History of Modern World (1871 To 2000 AD)

- Acquaint the students with the socio- Economical and Political development in the world in 19th and 20th Century.
- Understand the contemporary World in the light of its background History become aware of the principles, forces, processes and problems of the recent times
- Highlight the rise and growth of views and New Ideologies.

Optional Paper No- XI and XVI Historical Documents and Places

- Understand the Meaning and Nature of History
- Acquaint the Modern Historical Research methodology.
- Introduce the Historical places to promote Historical Tourism.



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Department of Commerce

Programme Outcomes

Sr. No.	Programme	Programme Objectives	Programme Specific Outcomes
1	B. Com. Accountancy	<p>PO 1. Understand the Concept To develop the concept understanding approach. Understand the definition and provisions.</p> <p>PO 2. Legal Framework principles governing by various Acts, legal aspects concerned to Business and Profession Act</p> <p>PO 3. Appreciate, Familiarize and Gain the Knowledge</p> <p>PO 4. Learn the technique of Computing learn the Standard setting process, various methods, two different points, various elements</p> <p>PO 5. Analysis the difference between the two transactions Classification, comparison, distribution from accounting point of view</p> <p>PO. 6 Develop an understanding of various commerce functions such as finance, accounting, and financial analysis.</p> <p>PO 7. Business ethics & Social Responsibility Understand the business and professional ethics. Social responsibility of business organisation</p> <p>PO 8. Solve Problems Preparation of final accounts, Solve given problems on Various topics to arrive at correct final result expected.</p>	<p>PSO 1. Understand the concept of Accounting Standards, grasp the objectives and benefits of Accounting Standards, and learn the Standard setting process. Familiarize with the status of Accounting Standard in India.</p> <p>PSO 2. To gain comprehensive understanding of all aspects relating to financial statements, principles, procedures of accounting and their application to different practical situations</p> <p>PSO 3. To provide knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards</p> <p>PSO 4. Demonstrate a knowledge of key concepts underlying quantitative decision analysis. Apply basic mathematical and statistical skills necessary for analysis of a accounting problems.</p> <p>PSO 5. Gain expert accounting knowledge & skills applicable to Corporate Accounting, in conformity with Indian Companies Act.</p> <p>PSO 6 Develop an understanding of commerce and apply the skills and knowledge in a business</p> <p>PSO 7. Student will exercise an understanding of ethical and social responsibilities in their professional lives and community service.</p> <p>PSO 8. Have exposure of working level and expert level commerce problems and find their solutions.</p>



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Department of Commerce

Course Outcomes

Sr. No.	Course	Course Outcomes
1	B Com. I Financial Accountancy	<ol style="list-style-type: none"> 1. Allocate common expenditures of the organisation among various departments on appropriate basis. Deal with the inter-departmental transfers and their accounting treatment. 2. Understanding the concept of branches and their classification from accounting point of view, learn various methods of charging goods to branches and solve problems 3. Learn how to derive capitals at two different points of time through statement of affairs; learn the technique of determining profit by comparing two capitals; preparation of final accounts from incomplete records 4. Understand the procedure for amalgamation of partnership firms; learn the accounting treatment; distribute the shares received as purchase consideration among the partners 5. Understanding the transaction of consignment, various rules regarding consignment transactions, various types of commission, valuation of closing stock, normal and abnormal loss. Solve problems on consignment
2	B Com II Corporate Accounting	<ol style="list-style-type: none"> 1. Prepare and the financial statements of a company as per Schedule III to the Companies Act 2013. 2. Define, Learn various elements of cash and cash equivalents, prepare Cash flow statement and Fund flow Statements 3. Understand the meaning of pre-incorporation profit or loss, learn methods for computing profit or loss prior to incorporation. 4. Understanding provisions of Companies Act regarding Shares, types of shares, issue, forfeiture, reissue of shares. Issue and Redemption of Preference Shares, Issue and Redemption of Debentures. Solve problems on Issue and Redemption. Understand the definition and provisions of winding up, types of winding up. Preparation of Liquidators final statement of accounts. 5. Understand and learn the provisions of valuation of various types of shares, methods of valuation of shares. Valuation of Goodwill, methods of valuation of goodwill.
3	B Com III Advanced Accountancy Paper-I	<ol style="list-style-type: none"> 1. Understand the term amalgamation and methods of accounting for amalgamations as per AS 14. Calculation of purchase consideration. Solve problems on amalgamation. 2. Understand the meaning of the term reconstruction. Solve problems on reconstruction. 3. Understand concept of group, holding company and subsidiary company. Apply the consolidation procedure.

		<p>Prepare the consolidated financial statements and solved related problems</p> <ol style="list-style-type: none"> 4. Understand the meaning of the term Investments, compute the cost of investments, learn the classification of investments, compute the carrying amount of investments, and calculate the profit / loss on disposal of investments. 5. Understand the significance of claim for loss of stock and loss of profit. Comprehend with the term loss of profit; standing charges and increased cost of working. Compute the amount of claim for loss of stock and loss of profit. 6. Understand and learn the provisions of valuation of various types of shares, methods of valuation of shares. Valuation of Goodwill, methods of valuation of goodwill.
4	B Com III Advanced Accountancy Paper-II	<ol style="list-style-type: none"> 1. Define audit and understand the objectives of audit, principles governing audit. Different types of audit. 2. Understand the audit planning, overall audit strategy, draft audit programme. Learn to develop audit plan and programme. 3. Understand the Concept of internal control, components of internal control and controls relating to audit. Understand audit sampling, analytical procedures, 4. Understand provisions regarding company audit. Qualification and disqualification of auditors, appointment of an auditor, powers and duties of auditor. 5. Understand the meaning of audit report, preparation of audit report, forming an opinion and reporting on financial statement 6. Understand the legal framework, gain the knowledge, learn the important items different type of entities like Banks, NGO's, charitable institutions, sole trader, firms, educational institutions etc. 7. Understand the provisions of Income Tax act, appreciate and apply the provisions of residential status of different persons 8. Comprehend the meaning and scope of income exempt from tax U/s 10. Identify the incomes which do not part of total income and exempt under different clauses U/s 10 9. Comprehend the meaning and scope of income from salary, house property, business or profession, capital gain and income from other sources, provisions of income tax regarding computation of income chargeable to tax under different heads of incomes. 10. Apply the provisions of different heads of income to arrive at the total income of the assessee.




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Department of Chemistry

Programme Outcomes

Sr. No.	Programme	Programme Objectives	Programme Specific Outcomes
1	B. Sc. Chemistry	PO1. Scientific attitude: To develop our thinking, our attitude, our interests, our outlook have undergone tremendous changes.	PSO1. Understand the knowledge of chemistry, Chemistry majors are able to recognize and apply the principles of atomic and molecular structure to predict chemical properties and chemical reactivity.
		PO2. Effective Communication: Speak, read, write and listen clearly in person through electronic media in English and in one Indian language and make meaning of the word by connecting peoples, ideas, books, media and technology	PSO2. Chemistry majors are able to employ critical thinking and scientific enquiry in the performance, design, interpretation and documentation of laboratory experiments, at a level suitable to succeed at an entry level position in a chemical industry or a chemistry graduate programme.
		PO3. Laboratory and calculation skills: Demonstrate competency in the laboratory expected of a practicing chemist. Develop good skills in laboratory such as observation and evaluation.	PSO3. Upon completion of a chemistry degree, chemistry majors are able to interpret and analyze quantitative data.
		PO4. Integrate the big ideas and themes: Structure representation, energetics, rates of processes, Connect neutral network across courses.	PSO4. The students are able to understand theoretical concepts of instruments that are commonly used in most chemistry fields as well as interpret and use data generated in instrumental chemical analyses.
		PO5. Effective use of ICT: Use of ICT tools to communicate, create, disseminate, store and manage information.	PSO5. Application of chemical knowledge to explain observation and solve the problem.



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Department of Chemistry

Course Outcomes

Sr. No.	Course	Course Outcomes	
1.	B. Sc.- I Sem- I	Paper-I Physical Chemistry	1. To study the basic concepts order and molecularity of reaction. 2. To understand the methods to determine the order of reaction. 3. To study the basic concepts of graphical representation, Derivative and Integration. 4. To introduce the processes, laws of thermodynamics. 5. Explanation of ideal, non ideal and liquification of gases.
		Paper-II Inorganic Chemistry	1. To understand the atomic structure, shape of orbital, position of elements in periodic table, electronic configuration and characteristics. 2. Introduction of chemical bonding, types of bond and crystal structure of NaCl & CsCl, Unit cell. 3. To study the VBT, understand concept of hybridization. 4. To study the MOT, understand the concept of orbital's. 5. VSEPR Theory- assumption and application.
2.	B. Sc.- I Sem- II	Paper-III Organic Chemistry	1. Fundamentals of organic chemistry- bond energy, bond angle, bond length, types of arrow, types of reactions. 2. To understand the Structure and Bonding in organic compounds. 3. To introduce the term isomerism, nomenclature. 4. To identify Aromatic, Non-aromatic and Anti-aromatic compounds by using Huckels rule. 5. To study the alkenes, dienes and alkynes.
		Paper-IV Analytical Chemistry	1. To introduce physical properties of liquids. 2. Introduction of environmental chemistry and different treatments on water. 3. To study qualitative and quantitative analysis. detection of Carbon, Hydrogen, Nitrogen And Halogen in different organic compounds by qualitative and quantitative measurements. 4. To study the petrochemical- composition of petrochemicals, application of petrochemicals.
3.	B. Sc.- I	Practical	1. To introduce the basic concepts of Physical, Inorganic and Organic chemistry practicals. 2. To provide practical information to students about titration, preparation and estimations. 3. To expose students to handle the glassware, instruments and apparatus. 4. To improve the practical knowledge of the students
4.	B. Sc.- II Sem- III	Paper-V Organic Chemistry	1. To introduce the UV-Visible spectroscopy. 2. To study the conformation, configuration and isomerism. 3. Brief idea about name reactions with mechanism. 4. To study of alcohols, phenols, aldehydes, ketones, ethers, epoxides and carboxylic acids. 5. To introduce various dye i.e. Methyl orange, Congo-red.
			1. To study the co-ordination chemistry- to understand the



		Paper-VI Inorganic Chemistry	Ligand, co-ordination number, Werners theory. 2. To introduce chelation, structure of DMG and EDTA. 3. To introduce acid & bases and different concepts. 4. To study of d-block elements- position, electronic configuration and characteristics of d-block elements.
5.	B. Sc.- II Sem- IV	Paper-VII Physical Chemistry	1. The study of Resistance and Conductance. 2. Knowledge of transport number, Kohlrausch's law and its applications, Onsager equation. 3. Describe the term Entropy, second law and third law of thermodynamics. 4. To study the cell, lattices, crystal structure. 5. Introduction of distribution law.
		Paper-VIII Analytical Chemistry	1. To introduce volumetric analysis- understand term of titrant, titrand, mole concept, primary & second standard substance. To study acid base indicators & acid base theory. 2. To introduce gravimetric analysis- understand the general steps dilution, precipitation, digestion, ignition in gravimetric analysis. To understand the co-precipitation & post precipitation.
6.	B. Sc.-II	Practical	1. To synthesis, estimation and analysis of unknown organic compounds. 2. To prepare, and estimate gravimetrically inorganic compounds. 3. To detect the unknown acidic and basic radicals. 4. To perform the experiments by instrumentally and non-instrumentally. 5. To study conductivity, refractivity, viscosity, specific rotation practically.
7.	B. Sc.- III Sem- V	Paper-IX Physical Chemistry	1. To understand Phase rule, phase diagram, one component and two component systems. 2. To acquire a knowledge of Thermodynamics, types of electrodes, metal- metal ion electrode. 3. explain the Oxidation- Reduction electrodes, reversible and irreversible cell and applications of emf. 4. Explain the thermal and photochemical processes, Laws of photochemistry and Joblonski diagram.
		Paper-X Inorganic Chemistry	1. To understand the basic concept, factors, applications and limitations of CFT. 2. Describe the basic concepts, assumptions, examples, applications and limitations of MOT. 3. To understand the nuclear reaction and its types, applications radioisotopes. 4. To study the essential, non essential and trace elements in biological process. 5. To describe the basic concepts of polymers, and nanoparticles.
		Paper-XI Organic Chemistry	1. Brief idea about Spectroscopy i.e. IR, NMR, Mass. 2. To introduce Shielding and Deshielding, Chemical Shift. 3. To describe various conformations- chair, boat, half-chair, twist-boat etc. 4. To understand the name reactions with mechanism. 5. To synthesis and reactions of AAE and Malonic ester.
			1. To provide basic information of colorimetry. 2. to study the titrations by potentiometrically.



		Paper-XII Analytical Chemistry	3. Explain the electrolysis and electroplating. 4. Discuss the Flame photometry and titrations by conductometrically.
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8.	B. Sc.- III Sem- VI	Paper-XIII Physical Chemistry	1. To introduce the Rotational and Vibrational spectroscopy of diatomic molecules. 2. To study the basic ideas about different solutions. 3. Explain the terms- free energy, enthalpy, phase equilibria, law of mass action, fugacity and activity. 4. Describe effects on rate of reactions, theories and order of reactions.
		Paper-XIV Inorganic Chemistry	1. To study the Lanthanides and Actinides with IUPAC nomenclature of super heavy elements. 2. To understand the theories of bonding in metal, Types of Semiconductor, applications of Semiconductor and Superconductor. 3. Recognise the structural studies of Boranes, Xenon compounds and oxides of sulphur and Phosphorus. 4. To study the corrosion of metals and Passivity. 5. To introduce Organometallic chemistry.
		Paper-XV Organic Chemistry	1. To study the Five membered, Six membered and Condensed heterocycles. 2. Brief idea about the monosaccharide, disaccharide and polysaccharide. 3. To understand the concept Dyes of Drugs. 4. To understand the analytical evidences and synthesis of Vitamins and Hormones. 5. To study the pesticides and plant growth.
		Paper-XVI Analytical Chemistry	1. To introduce soap and detergents. 2. Describe the process of polymerisation and rubber. 3. To explain the manufacture, refining of sugars and their by- products. 4. To study the Sizing, Bleaching and Dyeing of fibres. 5. To study the basic of Green Chemistry and Chromatography.
9.	B. Sc.- III	Practical	1. Apply quantitative reasoning skills to determine quantities of matter and energy involved in physical and chemical change. 2. Analyse and interpret experimental data using instruments. 3. To synthesize and Estimate Inorganic compounds. 4. To synthesize and estimate Organic compounds. 5. Separation and analysis of binary organic mixtures. 6. Preparation of derivatives of Organic compounds.



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Department of English

Programme Outcomes

Sr. No.	Programme	Programme Objectives	Programme Specific Outcomes
1	B. A. English	PO 1. Critical Thinking: To develop different perspectives about various ideas to reach to the ultimate decisions.	PSO1. Teaching should bring clarity about the topic and encourage students to form his own opinion about the topic
		PO2. Effective Communication: Effectiveness in LSRW i.e. Listening, Speaking, Reading and Writing. Effective use of language in oral, written and e-communication.	PSO2 The units of grammar and phonology and communication skills enable students in learning LSRW and their use.
		PO3.Social Interaction: Importance of listening to others, Using different ways while speaking in society, Skills of disagreements and to assist in reaching to conclusion in group settings.	PSO 3 General issues from the syllabus are chosen for discussions and debates. In these activities the ability to form opinions, views, to express agreement, disagreement, etc. in socially acceptable ways.
		PO4.Effective Citizenship: To develop social awareness and National concern. To take an active role in civic issues with eclectic ideology.	PSO 4 The intension is to develop an approach about Social, Political, and Cultural issues after learning various ideas in the classrooms.
		PO5.Ethics: To know value system. To take moral decisions and accept the responsibility for them.	PSO5 To teach ethical values to students belong to different backgrounds and maintain balance between/among different ethical views.
		PO6.Environment and Sustainability: To understand the issues of environmental consciousness and sustainable development.	PSO6 The aim is to teach importance of ecological balance. The prescribed texts, lessons and poems can be used by teachers for this purpose.
		PO7.Self-directed and Life-long Learning: To gain the ability to engage in independent and life-long learning.	PSO7 To inspire students to gain knowledge and wisdom and teach them that gaining knowledge and wisdom is continuous and unending process apart from financial gain from the acquired knowledge and wisdom



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Department of English

Course Outcomes

Sr. No.	Course	Course Outcomes
1	B. A., B.com and B. Sc. Part – I Compulsory English	1. To introduce to the students various forms of communication. 2. To make the teaching of English more practical and student centric. 3. To introduce to the students poems from across the globe. 4. To acquaint the students with different forms of prose. 5. To acquaint the students with different language skills.
2	B. A. Part – I Optional English	1) To acquaint the students with the minor forms of literature. 2) To initiate students and provide a firsthand experience of reading the literary text. 3) To acquaint the students with literary and critical terms/ concepts. 4) To acquaint the students with lyrical types.
3	B.A. and B. Com. II Compulsory English	1) To comprehend the language skills. 2) Use some simple language expressions in day to day life. 3) To develop the vocabulary of the students. 4) To improve the communicative skills of the students.
4	BA II Sem. III & IV British Literature	1) To introduce to the students British Literature and writers. 2) To initiate process of literary and critical interpretation of the texts. 3) To acquaint students with novel, essay, poetry and drama forms. 4) To acquaint students with historical background and literary characteristics of the texts.
5.	BA II Sem. III & IV Indian Literature In English	1. To acquaint Students with different literary forms practiced in India in English language. 2. To initiate reading skills of Indian Literature in English. 3.To acquaint students with critical and analytic skills of literary works 4. To acquaint students with the salient features of Indian English novel and drama.
6.	B.A. /B. Sc. Part III English Compulsory English Skills for Success	1. To introduce students to the best uses of language in literature. 2. To familiarize students with the communicative power of English 3. To enable students to become competent users of English in real life situations 4. To expose students to varied cultural experiences through literature 5. To contribute to their overall personality development by improving their communicative and soft skills
7.	B.A. III English (Special) Paper – IV Introduction to Literary Criticism	1. To introduce and elaborate the basic concepts of literary criticism and literature. 2. To familiarize students with critical texts. 3. To enable students to read and appreciate literary texts critically. 4. To expose them to major trends in literary criticism.
8.	Paper No. V British	1. To acquaint the students with major forms of British Literature. 2. To introduce various movements and major contributions to British



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	Literature	literature. 3. To enhance literary, linguistic and aesthetic competence of the students.
9.	Paper VI Indian Writing in English	1. To introduce undergraduate students to various phases of evolution in Indian writing in English and to familiarize them with ethos of India. 2. To acquaint students to pluralistic dimensions of this literature and sensitize them to value system it upholds. 3. To introduce the students the different themes, styles, genres as reflected in poetry, drama and fiction prescribed.
10.	Paper VII Literatures in English	<ul style="list-style-type: none">• To develop a clear grasp of the key concepts of world literature• To expose students to alternative literature produced in the world• To provide an exposure to various forms of literature• To familiarize the student with the rich and complex literary tradition of the world• To understand and respond to literary texts in different periods and cultures
11.	Paper VIII Introduction to the Structure and Function of Modern English	To introduce some basic and advanced units of language so that they become aware of the technical aspects and their practical usage



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Department of Economics

Programme Outcomes

S.N.	Programme	Programme Objectives	Programme Specific Outcomes
1	B.A. Economics	A) Intellectual Growth : PO 1. Develop the ability to explain core economic terms, concepts, and theories.	PSO 1. * Explain the function of market and prices as allocative mechanisms. * Apply the concept of equilibrium to both microeconomics and macroeconomics. * Identify key macroeconomic indicators and measures of economics change, growth, and development. * Identify and discuss the key concepts underlying comparative advantage. * Identify and explain major types of market failures.
		PO 2. Demonstrate the ability to employ the “economic way of thinking.”	PSO 2. * Discuss the application of marginal analysis. * Explain the use of benefit/cost analysis. * Explain the contribution of economics to the analysis of non-market social issues.
		PO 3. Demonstrate awareness of global, historical, and institutional forces.	PSO 3. * Assess the role of domestic and international institutions and norms in shaping economies.
		PO 4. Apply economic theories and concepts to contemporary social issues, as well as formulation and analysis of policy.	PSO 4. * Describe how economic trade-offs and social values impact public/private social policy, and the success or failure of policies to achieve intended outcomes.
		PO 4. Recognize the role of ethical values in economic decisions.	PSO 5. * Distinguish between normative and positive economics. * Identify the limits of economic analysis. * Compare and contrast efficiency and equity.
		B) Skill Areas PO 5. Apply both oral and written communication skills within the discipline.	PSO 6. * Present economic arguments in non-quantitative form. * Discuss economic concepts in an articulate manner in a classroom.
		PO 6. Demonstrate quantitative reasoning skills.	PSO 7. * Present an economic argument in quantitative terms. * Be able to conduct economic analysis using equations and graphs.



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		PO 7. Demonstrate the ability to collect, process, and interpret data, including statistical inference.	PSO 8. <ul style="list-style-type: none"> * Recognize how to use scientific method in economics. * Formulate empirically testable hypotheses. * Construct a data set of economic variables. * Calculate, present, and discuss descriptive statistics. * Conduct a regression analysis. * Critically assess the statistical analysis of other researchers.
		PO 8. Demonstrate computer proficiency within economics.	PSO 9. <ul style="list-style-type: none"> * Access, download, and use electronic databases. * Use standard software packages. i.e. SPSS, Excel etc.
		PO 9. Be able to use critical thinking skills within the discipline of economics about economic matters.	PSO 10. <ul style="list-style-type: none"> * Present viewpoints and alternative hypothesis on economic issues. * Recognize underlying assumptions in economic models. * Demonstrate ability to use the economic tools of analysis.
		C) Professional Development PO 10. Develop an awareness of career choices for undergraduate economic majors, and the options for graduate study.	PSO 11. <ul style="list-style-type: none"> * Set up and keep current a database concerning career opportunities for undergraduate majors and undergraduate options in economics. * Encourage majors and option students to consult department advisors concerning career goals, and the develop study programs consistent with those career goals.




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Course Outcomes

S. N.	Course	Course Outcomes
1	B. A. I - Indian Economy P.N. I & II (Sem. I & II)	1. To introduce Characteristics of Indian economy. 2. To know the students about cause and measures of Indian population 3. To introduce the poverty, unemployment and rising prices of Indian economy. 4. To know the silent features of maharashtras economy.
2	B.com – I Business Economics I (Sem. I & II)	1. To introduce basic concepts of Business Economics 2. To create awareness among commerce students about fundamental economic problems pervading in the corporate world. 3. To create the ability in the students to understand the cause and effect relation of consumer behavior in different market situation. 4. To create ability among the students to forecast future situation on the basis of present market situation and changes.
3	B.A. II – Money, Banking and Public Finance P.N. III & V (Sem. III & IV)	1. To introduce the concept of money to the students. 2. To introduce the concept of value of money. 3. To make aware the students with recent trends in commercial banking in India. 4. To make familiar the students with functioning of RBI and different monetary measures in India. 5. To introduce the nature and scope of public finance in India.
4	B.A. II – Demography P.N. IV & VI (Sem. III & IV)	1. To make aware the students about the various issues related to population in India. 2. To highlight various concepts and theories of population. 3. To enable the students to understand population policy of India. 4. To introduce various tools and techniques used for Demographic study.
5	B.com – II Business Economics II (Sem. III & IV)	1. To explain the basic concepts and theories of Macro-Economics to the students. 2. To inform the Macro-Economic policies and create awareness about changes in various Macro-Economic theories to the students.
6	B.com – II Money and Financial System (Sem. III & IV)	1. To explain the nature, functioning and issues related to money, banks and nonbank institution in India to the student. 2. To acquaint the students fully with the changing role o financial instructions in the process of growth and development.
7	B.A.III – Micro Economics P.N. VII & XII (Sem. V & VI)	1. As a foundation course, in this paper, student is expected to understand the behavior of an economic agent, namely a consumer, a producer, a factor owner and the price fluctuation in a market. 2. The approach of this paper is to study the behavior of a unit and analyze it in general, static and partial equilibrium framework. 3. The modules incorporated in this paper deal with the nature and scope of



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		<p>economics, the theory of consumer behavior, analysis of production function and equilibrium of producer, the price formation in different markets, structures and the equilibrium of a firm and industry.</p> <p>4. In addition, the principles of factor pricing and commodity pricing, the problem of investment and welfare economics have also been included.</p>
8	B.A.III – Macro Economics P.N. VIII & XIII (Sem. V & VI)	<p>1. On account of the growing influence and involvement of the state in economic fields, macroeconomics has become a major area of economic analysis in terms of theoretical as well as policy-making issues.</p> <p>2. Microeconomics has an extensive, substantive as well as methodological content. It deals with the functioning of the economy as a whole, including how the economy's total output of goods and services and employment of resources is determined and what causes these totals to fluctuate.</p> <p>3. The canvass of the study is the whole rather than the part because what is true for the part is not necessarily true for the whole.</p> <p>4. The paper entitled "Macroeconomics" is designed to make an undergraduate student aware of the basic theoretical framework underlying the field of macroeconomics.</p>
9	B.A.III – History of Economic Thoughts P.N. IX & XIV (Sem. V & VI)	<p>1. This course is essential for a student who aspires for advanced training in economics. Contemporary economic science has evolved over many centuries.</p> <p>2. The evolution of economic ideas in each instance was as much a response to immediate economic problems and policy issues as much as it was a self-conscious attempt to refine earlier analysis by correcting mistakes and filling in the gaps in analysis.</p> <p>3. Economic ideas did not evolve in isolation, but were an integral and important part of the evolution of modern social thought. Prevailing ideas of science, scientific rigor and measurement played a significant role in shaping of economic science at each stage of its evolution.</p> <p>4. This course, tracing the history of economic thought, would enable the student to understand how contemporary economics came to be what it is.</p>
10	B.A.III – Development and Research Methodology P.N. X & XV (Sem. V & VI)	<p>1. Modules incorporated in this paper would enable the students to know about theories of growth and development, sectoral aspects of development, investment criteria, allocation of resources, interrelation of international trade and development, domestic macro policies, international aspects of development and the issues relating to sustainable development also find their due place in the modules.</p> <p>2. This paper also attempts to enable students with the research methodology in economics.</p>
11	B.A.III – Agricultural Economics P.N. XI & XVI (Sem. V & VI)	<p>1. The importance of agriculture in the Indian economy hardly needs to be emphasized. The paper on agricultural economics highlights important aspects of the agricultural development and planning in India.</p> <p>2. The paper is split into many chapters; each chapter discusses an aspect of Indian agriculture and role of agriculture in Indian economy.</p> <p>3. This paper also tries to explore the new techniques in agriculture and the changes in agriculture in the contexts of Globalisation.</p>
12	B.com – III Business	<p>1. To Explain the Introduction, Meaning, Concept, & Scope of Business Economics.</p>



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	Economics III (Sem. V & VI)	2. Principles of Business Economics. 3. To introduce the Classical and neo-classical approaches regarding business economics. 4. To introduce the LPG model to the students.
13	B.com – III Co-operative Development (Sem. V & VI)	1. To Explain the Introduction, Meaning, Concept, & Scope of co-operative development. 2. Explain the various co-operatives institutes. 3. To explain the Role of various co-operative institutions in the economic development of the nation.



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Department of Mathematics And Statistics

Programme Outcomes

Sr. No.	Programme	Programme Objectives	Programme Specific Outcomes
1	B. Com. - II Business Statistics	PO 1. Knowledge and understanding of: 1. the fundamental concepts and techniques of data summary and presentation, statistical inference 2. the application of statistics in business	PSO1. In the programme students are expected to work on practical problems on their own and seek help when required.
		PO2. Intellectual skills Able to: 1. think logically 2. analyse and solve problems 3. organise tasks into a structured form 4. transfer appropriate knowledge and methods from one topic within the subject to another 5. recognise and use appropriate statistical methods in data analysis	PSO2. The quality of solutions to a problem is substantially determined by the structure of that response; analysis, synthesis, problem solving, integration of theory and application, and knowledge transfer from one topic to another are intrinsic to high-level performance in the programme.
		PO3. Practical skills Able to: 1. plan, conduct and report on the results of statistical investigations	PSO 3. Lectures, seminars, practical work and assignments are designed to enhance skills
		PO4. Transferable skills Able to: 1. communicate scientific ideas 2. use library and internet resources 3. manage time 4. plan their career.	PSO 4 Team work and career planning feature in modules on <i>Business Skills for Statisticians</i> . Communication skills are enhanced. Time management is essential for the timely and effective completion of the programme. Library and internet resources are required for certain assignments and contribute to the best performances throughout.

K. N. BHISE ARTS AND COMMERCE COLLEGE, KURDUWADI

Department of Mathematics

Course Outcomes

Sr. No.	Course	Course Outcomes
1.	B. Com. Part -II Business Statistics-I	<ol style="list-style-type: none">1. To able to get well acquainted with the fundamentals of statistics2. To interpret and communicate the result of statistical analysis3. To understand and find Mean, Median, Mode and Quartiles of given data4. To calculate independently basic statistical parameters the measures of Dispersion like Range, Q. D.,M.D., S.D. and their relative measures5. To calculate independently the Correlation and Regression
2.	B. Com. Part -II Business Statistics-II	<ol style="list-style-type: none">1. To understand the basic concepts of probability and probability distribution2. To explain basic statistical concepts such as Statistical Quality Control (np- and c-chart)3. To Understand the concept of the Time series and Seasonal variation4. To Understand the concept of the sampling distribution of a statistic such as Binomial and Normal distributions, and in particular describe the behaviour of the sample mean and variance



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Department of Zoology

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur Faculty of
Science Choice Based Credit System (CBCS) (W.e.f. June 2019)**

• Title of the Course: B.Sc. Part-I • Subject: Zoology

• Introduction: This course provides a broad overview of Zoology and to produces expert hands that would have sufficient knowledge and expertise to solve the urgent problems of the region by using Zoology. The course structure is basic science centric where students learn core science and are taught necessary fundamental subject for that purpose.

• Objectives of the course: The objectives of B. Sc. Zoology course are:

a. To provide an intensive and in depth learning to the students in field of Zoology.

b. Beyond simulating, learning, understanding the techniques, the course also addresses the underlying recurring problems of disciplines in today scientific and changing world.

c. To develop awareness & knowledge of different organization requirement and subject knowledge through varied branches and research methodology in students.

d. To train the students to take up wide variety of roles like researchers, scientists, consultants, entrepreneurs, academicians, industry leaders and policy.



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Course outcome and Advantages :

Zoology has tremendous job potential.

a) The successful students will be able to establish research organizations with the help of agriculture, environment protection and also their own industry for transgenic animals, clinical pathology, genetic counseling, human karyotyping etc.

b) Scientific Research Organizations.

c) Universities in India & abroad.

d) • Eligibility and Admission: A Candidate passing 10+2 with biology MLT , dairy science , Fisheries, Agricultural science as one of the subject and passed from state syllabus / CBSE / equivalent with minimum passing percentage of as per the directives of the higher education and Solapur university, Solapur.

- Duration: The duration for this program is of 3 years with semester pattern (06 Semesters)

- Medium of Instruction: English • Syllabus Structure: • The University follows semester system.

- An academic year shall consist of two semesters.

- Each B.Sc. course shall consist of three years i.e. six semesters.

- B.Sc. Part-I Zoology shall consist of two semesters: Semester I and Semester II. In semester I, there will be two core papers is having paper I and paper II of 100 marks. Similarly in Semester II there will be two core papers is having paper I and paper II of 100 marks. English will be as Ability Enhancement Course (AECC) in both Semester I and II. English paper carries 100 marks in each semester. The scheme of evaluation of performance of candidates shall be based on University assessment as well as College internal assessment as given below. For B.Sc. Part-I Zoology sem I & II the internal assessment will be based on Internal tests, Home assignment,



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Tutorials, Seminars, Group discussion, Brain storming sessions etc. as given below. Practical course examination is of 100 marks shall be conducted at the end of semester II. The practical examination of 100 marks shall also consist of 80 marks for University practical assessment and 20 marks for college internal assessment.

- Scheme of Evaluation As per the norms of the grading system of evaluation, out of 100 marks, the candidate has to appear for college internal assessment of 20 marks and external evaluation (University assessment) of 20 marks.



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Choice Based Credit System: With the view to ensure worldwide recognition, acceptability, horizontal as well as vertical mobility for students completing undergraduate degree, Solapur University has implemented Choice Based Credit System (CBCS) at Undergraduate level. The CBCS provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Therefore, it is necessary to introduce uniform grading system in the entire higher education in India. This will benefit the students to move across institutions within India to begin with and across countries. The uniform grading system will also enable potential employers in assessing the performance of the candidates. In order to bring uniformity in evaluation system and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations.

- Outline of Choice Based Credit System:

1. Core Course: A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.
2. Elective Course: Generally a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/ subject of study or which provides an extended scope or which enables an exposure to some other discipline/subject/domain or nurtures the candidate's proficiency/skill is called an Elective Course. Discipline Specific Elective (DSE) Course: Elective courses may be offered by the main discipline/subject of study is referred to as Discipline Specific Elective.
3. Ability Enhancement Courses (AEC): The Ability Enhancement (AE) Courses may be of two kinds: Ability Enhancement Compulsory Courses (AECC) and Skill Enhancement Courses (SEC). "AECC" courses are the courses based upon the content that leads to Knowledge enhancement; (i) Environmental Science and (ii) English/MIL Communication. These are



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mandatory for all disciplines. SEC courses are value-based and/or skill-based and are aimed at providing hands-on-training, competencies, skills, etc.

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Department of Zoology

Sr.No	Program	Program objectives	Program specific outcomes
1	B.Sc. Zoology	PO 1. Scientific Thinking: To develop different perspectives about various ideas to reach to the ultimate decisions.	Been able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solution to the problems.
2		PO2. Skill in handling of scientific instruments	The skills of observations and drawing logical inferences from the scientific experiments.
3		PO3 To find solutions and new ideas for the sustainable developments.	Realized how developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
4		PO4.Developed various communication skills such as scientific reading, listening, speaking, etc., which we will help in expressing ideas and views clearly and effectively.	Develop the skill of scientific communication.
		PO5. Depth learning in the field of subject Zoology.	To train the students to take up wide variety of roles like researchers, scientists, consultants, entrepreneurs, academicians, and industrialist.



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Department of Zoology

Course Outcomes

Sr.No	Course	Course outcomes
1	Paper I -Animal Diversity I	<ol style="list-style-type: none"> 1. Understand the evolution, history of phylum. 2. Understand about the Non Chordate animals. 3. To study the external as well as internal characters of non chordates. 4. To study the distinguishing characters of non chordates. 5. Understand the economical importance of Molluscs.
2	Paper II- Cell biology and Genetics	<ol style="list-style-type: none"> 1. Understand the Scope of cell biology, because cell is the basic unit of life. 2. Understand the Main distinguishing characters between plant cell and animal cell. 3. To study and understand the whole cell organelles with their structure and function. 4. Understand the cell cycle and know the importance of various cells in body of organisms. 5. Understand mendelian genetics, some aspects of Human Genetics and theories of sex determination.
3	Paper III – Animal Diversity II	<ol style="list-style-type: none"> 1. Understand the silent features of protochordates. 2. Understand general characters of fishes, fish scales, fish respiration 3. To understand the classification and general characters of fishes and amphibians. <p>Paper IV- Ecology, Ethology, Evolution and Applied Zoology</p> <ol style="list-style-type: none"> 1. To understand the basic concepts of biotic factors and abiotic factors. 2. To understand the concept of ecosystems and ecological succession. 3. To understand the behavior of animals in different part of life cycle. 4. To know the concept of Evolution and origin of life 5. To understand applied concepts of Apiculture, sericulture, vermin culture, goat farming etc.



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4	Paper IV- Ecology, Ethology, Evolution and Applied Zoology	<ol style="list-style-type: none"> 1.To understand the basic concepts of biotic factors and abiotic factors. 2.To understand the concept of ecosystems and ecological succession. 3.To understand the behavior of animals in different part of life cycle. 4.To know the concept of Evolution and origin of life 5. To understand applied concepts of Apiculture, sericulture, vermin culture, goat farming etc.
5	Paper V- Animal Diversity III	<ol style="list-style-type: none"> 1.To understand the morphology, habitats and physiological systems of cockroach and Pila 2.Tostudy disease spreading insects Mosquito species 3. To study the offence and defense mechanism in animals. 4. Classification and characters of non chordates and hemichordates.
6	Paper VI- Cell Science, Genetics, Biological chemistry and Economic zoology	<ol style="list-style-type: none"> 1. To understand cell science Mitosis and Meiosis 2. To understand the genetics in some human disorders 3. To study the structure and function of biomolecules. 4. To understand the economic zoology with reference to fishery, apiculture, dairy , etc.
7	Paper VII – Animal Diversity IV	<ol style="list-style-type: none"> 1. To understand the classification and characters of AVES, REPTILES, and Mammals. 2. To understand the classification and physiological systems of Rat as type study . 3. To understand the poisonous and non poisonous snakes, snake venom and its medicinal uses 4. To understand evolutionary studies
8	Paper VII – Histology and Physiology	<ol style="list-style-type: none"> 1. To understand the various human tissue ,structure and their functions. 2. To understand the effect of hormones 3. To understand the various contraceptives 4. To understand the body defense mechanism




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Department Of Microbiology

Programme outcomes

Sr.No.	Programme	Programme objectives	Programme specific outcomes
1.	B.Sc.Microbiology	PO.-1-Knowledge and Understanding- Core principles of bacterial and viral structure, physiology. Details of their interactions with mammalian host at the molecular level. Principles of prevention and treatment of microbial diseases	PSO1. The fundamental concepts of microbiology, such as the classification, identification and laboratory manipulation of microbes.
		PO2. Teaching/learning methods and strategies- Formal lectures and practicals supported by tutorials in specific areas related to microbiology. Assessment Most knowledge is tested through a combination of coursework and unseen formal examinations	PSO2. Rational thought and logical analysis is developed throughout the programme. Find out solutions to key problems in biology through the application of experimental procedure. Assessment A mixture of written examinations, and continuous assessments such as practical write ups, essays and poster and oral presentations.
		PO3-Skills and other attributes- To develop intellectual & practical skills Transfer appropriate knowledge and methods from one topic to another within the overall subject . The ability to formulate and test hypothesis of microbiological and biochemical laboratory tasks and techniques.	PSO3- Should be focus on transferable skills through use of ICT , Communicate scientific ideas and Work as part of a team. Plan experiments and carry them out in the laboratory Plan experiments and carry them out in the laboratory
		PO4- Deep discipline knowledge- accredited or validated against national or international standards	PSO4 informed and infused by cutting edge research, scaffold throughout their program of studies acquired from personal interaction with research active educators.
		PO5-Critical thinking and awareness- To develop scientific approach for the development of knowledge. To encourage research through the application of empirical evidences	PSO5- Encourage students to think logically, Organize tasks in a structured form to analyze and solve problems.
		PO6 Carrier and leadership readiness- To provide the platform to have knowledge regarding opportunities in health, pharmaceuticals & to take initiative to solve social problems	PSO6- To develop a attitude of forward thinking & code of proficiency. Adapt technology to test and validate the relevant work. Student become technology savvy to plan their career



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		<p>PO7 Intercultural & ethical competency To inculcate the indigenous knowledge to understand national & international standards & desirable social outcomes</p>	<p>PSO7-To adept the students comfortable with different nationality and social context.</p>
		<p>PO8- Self-awareness and emotional intelligence-The aim is to make abled students to tackle difficult social situations, avoid conflicts and engage them positively in demanded work.</p>	<p>PSO8-Encourage students to prepare their own self –appraisal & support to achieve their constructive objectives</p>



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Course outcomes

Sr.No.	Course Code	Course title	Course Outcomes
	B.Sc.part I-Sem.-I Paper-I	Introduction to Microbiology & Microbial Diversity	<p>Understand the basic microbial structure and function and study the comparative characteristics of prokaryotes and eukaryotes and also Understand the structural similarities and differences among various physiological groups of bacteria/archaea .Know General bacteriology and microbial techniques for isolation of pure cultures of bacteria, fungi and algae</p> <p>Master aseptic techniques and be able to perform routine culture handling tasks safely and effectively Comprehend the various methods for identification of unknown microorganisms Understand the microbial transport systems and the modes and mechanisms of energy conservation in microbial metabolism – Autotrophy and heterotrophy Know the various Physical and Chemical growth requirements of bacteria and get equipped with various methods of bacterial growth measurement. *</p>
	Paper-II	Microbial Techniquess	<p>. Demonstrate theory and practical skills in microscopy and their handling techniques and staining procedures</p> <p>.Know various Culture media and their applications and also understand various physical and chemical means of sterilization</p>
		Virology	<ul style="list-style-type: none"> • Know how viruses are classified • Understand the architecture of viruses • Know the methods used in studying viruses • Discern the replication strategies of representative viruses from the seven Baltimore classes • Comprehend the intricate interaction between viruses and host cells • Understand the interactions between viruses and the host immune system • the terms Oncogenes and tumor suppressor genes, and how tumor viruses interact with these products and their intersecting pathways and cause oncogenesis. • Explain vaccine strategies and mechanisms of antiviral drugs and interferons • Know how viruses can be used as tools to study




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			biological processes , as cloning vectors and for gene transfer. *
		Biochem	Describe the concepts of electrolytes and electrolytic dissociation, pH and its biological significance, buffers, Henderson-Hasselbalch equation, biological buffer systems and their importance. • Understanding the laws of thermodynamics , concepts of entropy, enthalpy and free energy changes and their application to biological systems and various biochemical studies and reactions. • Conceptual knowledge of aerobic and anaerobic respiration and various intermediary mechanisms involved, oxidative phosphorylation • Overview of major biomolecules –carbohydrates, lipids, proteins, aminoacids, nucleic acids, classification, structure, function of the above mentioned biomolecules • Discuss the biosynthesis and the degradation pathways involved. • Specify the biological significance of biomolecules in metabolism • Conceptual knowledge of properties, structure, function of enzymes, enzyme kinetics and their regulation ,enzyme engineering, Application of enzymes in large scale industrial processes.
		Genetics and mol bio	Know the terms and terminologies related to molecular biology and microbial • Understand the properties, structure and function of genes in living organisms at the molecular level • Explain the significance of central dogma of gene action • Have a conceptual knowledge about DNA as a genetic material, enzymology, and replication strategies • Understand the molecular mechanisms involved in transcription and translation • Describe the importance of genetic code and wobble hypothesis • Discuss the molecular mechanisms underlying mutations,detection of mutations and DNA damage and repair mechanisms • Explain the concept of recombination, linkage mapping and elucidate the gene transfer mechanisms in prokaryotes and eukaryotes • Handle and independently work on lab protocols involving molecular techniques
		Environment and agri.	Appreciate the diversity of microorganism and microbial communities inhabiting a multitude of



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			<p>habitats and occupying a wide range of ecological habitats. • Learn the occurrence, abundance and distribution of microorganism in the environment and their role in the environment and also learn different methods for their detection and characterization • Competently explain various aspects of environmental microbiology and microbial ecology and to become familiar with current research in environmental microbiology. • Understand various biogeochemical cycles – Carbon, Nitrogen, Phosphorus cycles etc. and microbes involved • Understand various plant microbes interactions especially rhizosphere, phyllosphere and mycorrhizae and their applications especially the biofertilizers and their production techniques • Understand the basic principles of environment microbiology and be able to apply these principles to understanding and solving environmental problems – waste water treatment and bioremediation • Know the Microorganisms responsible for water pollution especially Water-borne pathogenic microorganisms and their transmission • Comprehend the various methods to determine the Sanitary quality of water and sewage treatment methods employed in waste water treatment</p>
		IMMUNOLOGY	<p>Demonstrate an understanding of key concepts in immunology. • Understand the overall organization of the immune system • Conceptualize how the collection of individual clones of lymphocytes (termed the “immune repertoire”) arises from rearrangement within two genetic loci: the Ig gene in B cells and the antigen receptor in T cells. • Learn how “clonal selection” allows for the expansion of a limited number of antigen-recognizing lymphocytes in response to an specific antigenic stimulus • Begin to appreciate the significance of maintaining a state of immune tolerance sufficient to prevent the emergence of autoimmunity. • To understand about Tumor Immunology and help the students to understand its immune prophylaxis and immune therapy. • To make them understand the salient</p>



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			<p>features of antigen antibody reaction & its uses in diagnostics and various other studies. • Learn about immunization and their preparation and its importance • Demonstrate scientific quantitative skills, such as the ability to evaluate experimental design, read graphs, and understand and use information from scientific papers. Demonstrate skill in communication of scientific data in standard format.</p>
		Ind.and food micro	<p>Understand the beneficial role of microorganisms in fermented foods and in food processing and the microbiology of different types of fermented food products – dairy, pickles, Legume and cereal based food products • Understand the significance and activities of microorganisms in food and role of intrinsic and extrinsic factors on growth and survival of microorganisms in foods • Know the spoilage mechanisms in foods and thus identify methods to control deterioration and spoilage • Recognize and describe the characteristics of important pathogens and spoilage microorganisms in foods. • Learn various methods for their isolation, detection and identification of microorganisms in food and employ in industries • Identify ways to control microorganisms in foods and thus know the principles involving various methods of food preservation • Understand of the basis of food safety regulations and Discuss the rationale for the use of standard methods and procedures for the microbiological analysis of food • Acquire, discover, and apply the theories and principles of food microbiology in practical, real-world situations and problems.</p> <p>Get equipped with a theoretical and practical understanding of industrial microbiology • Appreciate how microbiology is applied in manufacture of industrial products • Know how to source for microorganisms of industrial importance from the environment • Know about design of bioreactors, factors affecting growth and production, heat transfer, oxygen transfer • Understand the rationale in medium formulation & design for microbial fermentation,</p>



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			sterilization of medium and air • Appreciate the different types of fermentation processes • Understand the biochemistry of various fermentations • Identify techniques applicable for Improvement of microorganisms based on known biochemical pathways and regulatory mechanisms • Comprehend the techniques and the underlying principles in down stream processing
		Medical micro	This course provides learning opportunities in the basic principles of medical microbiology and infectious disease. • It covers mechanisms of infectious disease transmission, principles of aseptic practice, and the role of the human body's normal microflora. • The course provides the conceptual basis for understanding pathogenic microorganisms and the mechanisms by which they cause disease in the human body. • It also provides opportunities to develop informatics and diagnostic skills, including the use and interpretation of laboratory tests in the diagnosis of infectious diseases. • To understand the importance of pathogenic bacteria in human disease with respect to infections of the respiratory tract, gastrointestinal tract, urinary tract, skin and soft tissue. • Helps to understand the use of lab animals in medical field. • Recall the relationship of this infection to symptoms, relapse and the accompanying pathology. • Explain the methods of microorganisms control, e.g. chemotherapy & vaccines. Solve problems in the context of this understanding.




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Programme Outcomes

अ.क्र.	Programme	Programme Objective	Program Specific Outcomes
9	B.A. Hindi (Opt.)	PO 1 :- चिकित्सक विचार छात्रों में चिकित्सक तथा नयी कल्पनाओं को विकसित करना।	PSO 1 :- छात्रों में अध्ययन से नई प्रतिभाशक्ती का विकास होगा। वे अपने विचार प्रकट करेंगे।
		PO 1:- परिणामकारक संप्रेषण छात्रों में श्रवण, भाषण, वाचन और लेखन क्षमताओं का विकास करना।	PSO 2:- छात्र हिंदी व्याकरण, मानक वर्तनी, पत्रलेखन, संवाद कौशल्य, ध्वनीशास्त्र पहचानकर दैनंदिन व्यवहार में हिंदी भाषा का प्रयोग करेगा।
		PO 3:- सामाजिक विकास छात्रों में सामाजिक आंतरक्रियाओं का विकास करना।	PSO 3:- गटचर्चा तथा चर्चासत्र में छात्र अपने सामाजिक विचारों को प्रकट करेंगे, समाजविकास के प्रति जागरूक रहेंगे।
		PO 4:- आदर्श नागरिक देश तथा समाज के राष्ट्रीय विकास के लिए आदर्श नागरिक निर्माण करना।	PSO 4:- भारतीय संस्कृतिद्वारा आर्जित ज्ञान, विश्वास, नैतिक मुल्य, कला, रिती रिवाज, अध्यात्म तथा मुल्यबोध का ज्ञान प्राप्त कर आदर्श व्यक्तित्व के उदाहरण प्रस्तुत करेंगे।
		PO 5:- नैतिक मूल्यों की शिक्षा तथा सामाजिक तथा नैतिक मूल्यों को समझाकर सामाजिक जिम्मेदारी को निभाना।	PSO 5:- छात्र नैतिक मूल्यों की शिक्षा प्राप्त कर संस्कृती सभ्यता और विरासत के प्रती सजग रहेंगे, सामाजिक जिम्मेदारीयों को निभायेंगे।
		PO 6:- पर्यावरण सुरक्षा पर्यावरण संबंधि शिक्षा देकर छात्रों को पर्यावरण के प्रति प्रेम तथा कर्तव्यभावना जागृत करना।	PSO 6:- पाठ्यक्रम के घटकों के आधारपर पर्यावरण संबंधित जागृती कर कहानी, उपन्यास, संस्मरण, रेखाचित्र, जीवनी के उदाहरण प्रस्तुत करेगा।
		PO 7:- स्वनिर्देशिक एवं आजीवन ज्ञान छात्रों में आजीवन ज्ञान प्राप्ती के लिए स्वयंसिध्द बनना।	PSO 7:- छात्रों को उत्साहीत करना, ज्ञान में निरंतरता तथा आजीवन ज्ञान प्राप्ती के लिए प्रयास किया जायेगा, छात्रों को सर्वगुणसंपन्न बनाने के लिए प्रयत्नशील उपक्रम हात में लिए जायेंगे।



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Programme Outcomes

अ.क.	Programme Course	Course Outcomes
१	B.A. - I Hindi (Opt.)	१. छात्रों को हिंदी साहित्य तथा साहित्यकारों का परिचय होगा। २. छात्रों में हिंदी साहित्य के प्रति रुची तथा देश प्रेम की भावना वृद्धिगंत होगी। ३. छात्रों को हिंदी भाषा के व्याकरण शब्द समुदाय तथा मानक वर्तनी का परिचय होगा। ४. छात्र हिंदी साहित्य की वर्णमाला तथा देवनागरी लिपी से अवगत होगा। ५. छात्र मुहावरे तथा कहावतों का अपनी दैनंदिन भाषा में प्रयोग करते हैं।
२	B.A. - II Hindi (Opt.) Paper No. III / V हिंदी गद्य व्याकरण तथा लेखन	१. छात्र का युगीन परिस्थितियों तथा समस्या का निरूपण करना तथा उनके समाधान ढूँढता है। २. छात्र गद्य विभागों को जानकर जीवन की सही पहचान कर आशावादी दृष्टिकोन जागृत होगा।
	B.A. - II Hindi (Opt.) Paper No. IV / VI हिंदी पद्य व्याकरण तथा लेखन	३. छात्र प्राचीन तथा मध्ययुगीन संस्कृति की विशेषताओं से अवगत हुए। ४. रीतिकालीन श्रृंगार तथा वीर रस की विशेषताओं से आवगत हुए ५. छात्र कबीर, सुरदास, तुळशीदास, मीरों, तथा जायसी के काव्य से प्रभावीत हुए। ६. छात्र विज्ञापन, संवाद, अनुवाद, हिंदी वेबसाईड, संगणक हे परिचीत हुए। ७. छात्र छायावाद, प्रगतीवाद, प्रयोगवाद नई कविता से प्रभावीत हुए।
३	B.A. - III Hindi (Opt.) Paper No. VII / XII विशेष लेखक ओमप्रकाश वाल्मीकी	१. छात्र ओमप्रकाश वाल्मीकी के बहुमुखी प्रतिभा व्यक्तित्व, कृतित्व से प्रभावीत हुए है। २. छात्र दलित विमर्श से प्रभावीत हुए। ३. छात्र आलोचनात्मक साहित्य तथा आत्मकथा साहित्य से प्रभावीत हुए। ४. छात्र दलित साहित्य की विशेषताओं के बारे में बताएँगे।
	Paper No. VIII / XIII साहित्यशास्त्र और समालोचना	१. छात्र साहित्य का सृजन तथा उसकी सार्थकता का बोध करेंगे। २. छात्र काव्य के भेद महाकाव्य, खंडकाव्य, गजल साहित्य से प्रभावित होंगे। ३. छात्र भारतीय तथा पाश्चात्त सिद्धांत आलोचना साहित्य से परिचित हुए। ४. छात्र कहानी नाटक उपन्यास, रिपोर्टाज यात्रा साहित्य संस्मरण तथा रेखाचित्र के भेद जानेंगे।



Paper No. IX / IVX हिंदी साहित्य का विकास	<p>१. छात्र हिंदी साहित्य की ऐतिहासिक, सामाजिक, राजनीतिक परिस्थिती, विशेषता का परिचीत होगा।</p> <p>२. छात्र हिंदी साहित्य के प्रमुख रचना का तथा उनका साहित्य जान पायेंगे।</p> <p>३. छात्र कबीर, तुळशीदास, मिर्छ, सुरदास, जायसी, केशवदास के भाषागत विशेषता तथा भेद पहचानेंगे।</p> <p>४. हिंदी साहित्य का विकास काल के अनुसार भेद तथा अध्ययन छात्र करेगा।</p>
Paper No. X / XV प्रयोजनमुलक हिंदी	<p>१. छात्र प्रयोजनमुलक हिंदी से तथा उनकी विशेषताओं से परिचित होगा।</p> <p>२. छात्र जनसंचार माध्यम, समाचार पत्र, रेडिओं के तत्वों से परिचीत हुए।</p> <p>३. छात्र आवेदन पत्र, कार्यालयीन पत्राचार, वाणिज्य तथा व्यापारी पत्र से परिचित हुए।</p> <p>४. छात्र अनुवाद की कला सिखता है।</p> <p>५. छात्र रोजगार पाने में सफल बन पायेगा।</p> <p>६. दैनंदिन व्यवहार में हिंदी का प्रयोग कर पायेगा।</p>
Paper No. XI / XVI भाषा विज्ञान	<p>१. छात्र भाषा के विविध रूप स्पष्ट कर पायेगा।</p> <p>२. छात्र हिंदी भाषा एवं लिपी के उदभव तथा विकास से परिचीत होगा।</p> <p>३. भाषा के शुद्धता के प्रती जागरुक होगा।</p> <p>४. छात्र हिंदी वर्तनी, भाषा विज्ञान के नियम तथा व्याकरणिक नियमों से परिचित होगा।</p>



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