



Shri Shahu Chhatrapati Shikshan Sanstha's
SHRI SHAHAJI CHHATRAPATI MAHAVIDYALAYA
2968, 'C' Dasara Chowk, Kolhapur-416 002.

Estd. 1971

Affiliated to - Shivaji University, Kolhapur-416 004, Maharashtra
Accredited by NAAC (3rd Cycle) with Grade 'A' (CGPA-3.13)

Website : www.shahajicollege.ac.in

E-mail : sscm34.cl@unishivaji.ac.in

Prin. Dr. R. K. Shenediwan - M.A. B.Ed. Ph.D.NET (Marathi) B.J.

Phone : (O) (0231) 2644204, (M) 9960995853

ACADEMIC YEAR: 2023-2024

Programme Outcomes (POs),

Programme Specific Outcomes (PSOs)

Course Outcomes (COs)



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Prin. Dr. R. K. Shanedivan - M.A. B.Ed. Ph.D.NET (Marathi) B.J.

Phone : (O) (0231) 2644204, (M) 9960995853

Faculty of Arts

Department of Marathi

Programme Name: B.A. (Course: Marathi)

Programme Outcomes: After completion of the Programme, the students will be able to:	
PO1	Develop interest in Marathi language and Marathi literature.
PO2	Understand the tradition of Marathi literature and the contribution of Marathi writers.
PO3	Develop interest in Marathi as well as other languages.
PO4	Understand the various types of Marathi literature.
PO5	Understand the different movements in Marathi literature.
Programme Specific Outcomes: After completion of the Programme, the students will be able to:	
PSO1	Inculcate love for mother tongue and ethical values.
PSO2	Develop the skills of language learning.
PSO3	Prepare for competitive examinations.
PSO4	Work in the varied fields of language such as translation, precis writing etc.
PSO5	Get familiar with the language used in various media resources.
Course Outcomes: After completion of the course, the student will be able to:	
B.A.-I, Sem. I II(Compulsory)	CO1. Develop interest in Marathi language and Marathi literature. CO2. Develop ethical values & Biography Iloilo's. CO3. Develop awareness of mother tongue i.e., Marathi.
B.A. Part I Sem. I and II(Optional)	CO1. Inculcate interest in Marathi literature. CO2. Understand the importance of Marathi language in Competitive examinations. CO3. Get acquainted with Marathi language in media and Marathi cinema. CO4. To enhance the story writing skill in Marathi language.
B.A.II (Optional) Sem. III and V	CO1. Understand drama as a form of Marathi literature. CO2. Know the development of contemporary drama. CO3. Understand poetry as a form of Marathi literature. CO4. Learn various elements of poetic art.
B.A.II (Optional) Sem. IV and VI	CO1. Understand the form of autobiography in Marathi literature. CO2. Develop the skill of writing autobiography. CO3. Understand the form of novel in Marathi literature. CO4. Develop the skill of writing from the literary point of view.
B.A. III(Special) Sem. V and VI Paper VII and XII	CO1. Understand the ancient, modern and post-modern literature in Marathi. CO2. Get acquainted with the literary and non-literary types of writings. CO3. Understand the genesis of creative writing in Marathi. CO4. Learn the different aspects of Marathi language.
B.A. III(Special) Sem. V and VI Paper VIII and XIII	CO1. Understand the phonology and semantics of Marathi language. CO2. Familiarize with standard Marathi language and its dialects. CO3. Develop interest in the Marathi language. CO4. Understand the origin of Marathi language and Marathi grammar.



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B.A. III(Special) Sem. V and VI Paper IX and XIV	CO1. Study the Marathi language and literature of the Medieval period. CO2. Understand Marathi prose and poetry writings. CO3. Understand the compositions of Marathi writers in various forms. CO4. Learn ballad form in Marathi literature.
B.A. III(Special) Sem. V and VI Paper X and XV	CO1. Understand the creative process and creative writings. CO2. Develop skill of writing essays, poems and project writing. CO3. Familiarize with the language used in different media forms. CO4. Search the jobs in various service sectors.
B.A. III(Special) Sem. V and VI Paper XI and XVI	CO1. Familiarize with the Medieval trends of Marathi literature. CO2. Understand literary prose and character depiction. CO3. Understand social, political, familial and cultural life-style. CO4. Acquaint with rural life and rural language forms.



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Department of Hindi

Programme Name: B.A. (Course: Hindi)

Programme Outcomes: After completion of the Programme, the students will be able to:

PO1	Understand the importance of Hindi language.
PO2	Understand the importance of Hindi language in National Integration.
PO3	Learn the application of Hindi language and its relevance in current context.
PO4	Understand the opportunities of jobs Hindi language makes available in various sectors.
PO5	Understand the literature written in Hindi and importance in National Integration.

Programme Specific Outcomes: After completion of the Programme, the students will be able to:

PSO1	Understand the relevance of Hindi novelists and dramatists and their literary works.
PSO2	Know the difference in various forms of literature.
PSO3	Develop through literary works moral and national values.
PSO4	Be responsible citizens.
PSO5	Understand the relevance of Hindi prose and poetry in the current context.

Course Outcomes: After completion of the course, the student will be able to:

B.A.-I, Sem. I II(Compulsory)	CO1. Understand the use of Hindi language in day-to-day contexts. CO2. Develop the skill of writing correspondence in Hindi language. CO3. Learn the translation into Hindi language.
B.A. Part I Sem. I and II(Optional)	CO1. Understand the modern Hindi literature in the genre of poetry and prose. CO2. Understand the relevance of Hindi literature in the current context. CO3. Know the contribution of Hindi writers in developing National Integrity among the citizens.
B.A.II (Optional) Sem. III and V	CO1. Understand the modern forms of literature. CO2. Know the opportunities of jobs in various sectors. CO3. Inculcate the interest in the field of Hindi language and translation.
B.A.II (Optional) Sem. IV and VI	CO1. Understand the contribution of Hind poets in the Medieval period. CO2. Understand the varied themes handled in the Modern Hindi Poetry. CO3. Inculcate the moral and national values. CO4. Develop the thought process regarding feminism.
B.A. III(Special) Sem. V and VI Paper VII and XII	CO1. Acquaint with the Hindi dramatist Kusum Kumar and the novelist Chandrakanta. CO2. Get acquainted with their literary contribution to the Hindi literature. CO3. Develop the critical appreciation of their literary works. CO4. Understand the relevance of their writing in the current context.
B.A. III(Special) Sem. V and VI Paper VIII and XIII	CO1. Understand the creative process. CO2. Understand the different genres of literature. CO3. Learn the different critical perspectives and their application. CO4. Acquaint with the aesthetics of literature.



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B.A. III(Special) Sem. V and VI Paper IX and XIV	CO1. Understand the development of Hindi literature from Ancient Period to Modern Period. CO2. Develop interest in the works of Hindi writers. CO3. Understand the historical, social and cultural dimensions of Hindi literature.
B.A. III(Special) Sem. V and VI Paper X and XV	CO1. Understand the importance of Hindi in Communication and Information Transmission. CO2. Understand the use of Hindi in day-to-day context. CO3. Develop the communication skill in Hindi language.
B.A. III(Special) Sem. V and VI Paper XI and XVI	CO1. Understand the origin and development of Hindi language. CO2. Understand the grammar of the Hindi language. CO3. Familiarize with the intonation of Hindi language.

Department of English

Programme Name: B.A. (Course: English)

Programme Outcomes: After completion of the Programme, the students will be able to:	
PO1	Perform analysis and criticism of literary and cultural texts from different perspectives.
PO2	Write analytically in a variety of formats including essays, reflective writing and critical reviews of primary sources.
PO3	Understand the process of communicating and interpreting human experiences through literary representation using historical contexts and disciplinary methodologies.
PO4	Use English effectively in formal and informal situations.
PO5	Able to get the jobs in industry, government, schools and offices. Have enriched confidence to appear for competitive examinations.
Programme Specific Outcomes: After completion of the Programme, the students will be able to:	
PSO1	Comprehend various forms of literature like prose, poetry, drama and fiction.
PSO2	Develop the knowledge of grammatical system of English language.
PSO3	Develop the four language skills: Listening, Speaking, Reading and Writing (LSRW).
PSO4	Scope of employability and entrepreneurship in the field of Media and Journalism, Teaching, Public Relations, Human Resource, Civil Service, Creative Writing etc.
PSO5	Write analytically in different formats like essays, review etc.
Course Outcomes: After completion of the course, the student will be able to:	
B.A.-I, Sem. I II(Compulsory)	CO1. Acquaint with communication skills. CO2. Inculcate human values through poems and prose. CO3. Improve the language competence.
B.A. Part I Sem. I and II (Optional)	CO1. Acquaint with translated Modern Indian literature in English. CO2. Understand short story as a form of literature with reference to the texts prescribed. CO3. Develop literary competence.



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B.A.II (Compulsory) Sem. III and IV	CO1. Able to write an official report. CO2. Understand the format of official letters. CO3. Acquaint with communication skills. CO4. Develop writing skills.
B.A.II (Optional - Literature & Cinema) Sem. III and V	CO1. To understand the nature of film as an 'art' form. CO2. To explore ways in which film as art and literature influence each other. CO3. To expand existing textual analytical skills towards an understanding of film adaptation. CO4. To understand different perspectives on film adaptations.
B.A.II (Optional - Partition Literature) Sem. IV and VI	CO1. To create an awareness of the partition scenario among the students. CO2. To explain the hidden human dimensions of the partition to the students. CO3. To elaborate on the impact of partition on society.
B.A. III (Compulsory)	CO1. Understand the interview techniques. CO2. Improve writing skill. CO3. Acquaint with official letter writings. CO4. Acquaint with the journalistic use of English language.
B.A. III (Introduction to Literary Criticism)	CO1. Understand the major trends in literary criticism. CO2. Familiarize with the major critical concepts. CO3. Understand the original contributions to literary criticism. CO4. Understand the various literary movements. CO5. Acquire the skill of writing critical appreciation of poetry.
B.A. III (English Poetry)	CO1. Become curious readers of poetry. CO2. Understand poetry from various cultures and traditions. CO3. Understand that poetry gives intellectual, moral and linguistic pleasures. CO4. Able to enjoy poetry as the highest form of literature.
B.A. III (English Drama)	CO1. Understand the form of the drama. CO2. Understand the structure of drama. CO3. Familiarize with the types of drama. CO4. Familiarize with dramatic language.
B.A. III (English Novel)	CO1. Familiarize with the novel as a literary form. CO2. Acquaint with various types of novels. CO3. Familiarize with the language of the novel. CO4. Develop interest to read the novels.
B.A. III (Language and Linguistics)	CO1. Understand Speech mechanism and basic sounds in English language. CO2. Familiarize with word transcription and word stress. CO3. Understand the word-formation processes. CO4. Learn word classes, types of phrases and their form and function.



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Department of Sociology

Programme Name: B.A. (Course: Sociology)

Programme Outcomes: After completion of the Programme, the students will be able to:	
PO1	Enhance the logical and analytical skill to understand the social issues and problems.
PO2	Contribute subject knowledge to nurture creativity, research and development.
PO3	Get acquainted with basic and advanced theoretical as well as methodological knowledge of sociology for applications.
PO4	Learn about society, social life and social interaction.
PO5	Understand social life by inculcating values, morals and manners.
Programme Specific Outcomes: After completion of the Programme, the students will be able to:	
PSO1	Develop the sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues.
PSO2	Understand social structures, social institutions, cultural practices and multiple axes of difference and inequality.
PSO3	Enhance their qualitative and quantitative analytical skills.
PSO4	Learn about institutions, folkways, mores, culture, social control, social inequality, society and culture of India.
PSO5	Join professional careers in sociology and allied fields.
Course Outcomes: After completion of the course, the student will be able to:	
B.A. Part I Sem. I and II(Optional) Introduction to Sociology and Applied Sociology	CO1. Define sociology and demonstrate nature, scope and subject matter of sociology. CO2. Demonstrate how sociology differ from and similar to other social sciences and their areas of interdependence. CO3. Acquaint themselves with the basic concepts of sociology like society, community, association, culture, social change, social stratification etc. CO4. Know the basic social institution like family, marriage, kinship in a scientific way.
B.A.II (Optional) Sem. III and IV Social Issues in India and Social movements in India	CO1. Understand the Concepts of Socio Economic Issues. CO2. Learn about Socio-Cultural and legal issues in Indian society. CO3. Understand Concepts of Social and Peasant movements. CO4. Learn and understand about Dalit and Tribal movements.
B.A.II (Optional) Sem. III and IV Gender and Violence and Sociology of Health	CO1. Understand the concepts of gender and violence. CO2. Understand domestic violence against women. CO3. Introduction to sociology of health and realize the major diseases in India. CO4. Learn about lifestyle and health and understand health policy in India.
B.A. III (Special) Western & Indian Sociological	CO1. Define sociological theory, understand its features and describe and illustrate the role of theory in building sociological knowledge. CO2. Know the contribution of founding fathers of sociology in developing sociology as an academic discipline. CO3. Know the contributions of Western & Indian Sociologist.



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Thinkers	
B.A. III (Special) Methods of Social Research	CO1. Understand the meaning, scope, types and significance of social research. CO2. Understand what a sampling method is and how it is useful in social research. CO3. Learn to collect, analyze data and how to write a research report.
B.A. III(Special) Political Sociology & Social Anthropology	CO1. Understand the major concepts, theoretical approaches and perspectives of political sociology. CO2. To provide the conceptual understanding about anthropology CO3. To understand the social aspects of tribal's in India.
B.A. III(Special) Human Rights & Rural Sociology	CO1. Understand the nature & role of human rights in India CO2. Contribute to the resolution of human rights issues and problems. CO3. Define rural sociology and demonstrate nature, subject matter and importance of studying rural sociology. CO4. Understand and analyze social, economic and political aspects of rural society.
B.A. III(Special) Sociology of Religion & Urban Sociology	CO1. Understand the development of knowledge in the field of Sociology of Religion CO2. Different theories, approaches and concepts that make up the study of religion. CO3. Understand the significance of the city and the process of urbanization. CO4. Know about urban processes such as migration, displacement and urban slums etc.



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Department of History and S.T.D.

Programme Name: B.A. (Course: History)

Programme Outcomes: After completion of the Programme, the students will be able to:	
PO1	Possess knowledge of the various subjects which belong to humanities & languages
PO2	Be competent with the qualities required for becoming cultured and ideal citizens of India.
PO3	Be competent enough to face the competitive world and grab jobs at significant posts.
PO4	Possess a broad, liberal foundation of human values that will make them shoulder social responsibilities.
PO5	Demonstrate competence in written and oral communication in all branches of knowledge.
Programme Specific Outcomes: After completion of the Programme, the students will be able to:	
PSO1	Acquire an understanding of the historical framework for the development of Indian Civilization and Understand background of our Nation.
PSO2	Pursue a more in-depth study in aspects of Ancient, Medieval and Modern to Contemporary History.
PSO3	Understand the present existing social, political, religious and economic conditions of the Indian people.
PSO4	Develop practical skills helpful in the study and understanding of historical events.
Course Outcomes: After completion of the course, the student will be able to:	
B.A. Part I Sem. I (Optional): Rise of the Maratha Power Sem. II, Paper II: Polity, Society and Economy under the Marathas	CO1: Understand the history of the Rise of Maratha Power. CO2: Acquaint the students with the sacrifices made by Maratha leaders and people for the sake of freedom and sovereignty of the region. CO3: Understand the Era of Marathas struggle in the history from 1600 to 1707. CO4: Understand the political, socio-economic and religious life of the people during the period from 1600-1707.
B.A.II (Optional) Sem. III: Paper III: History of Modern Maharashtra (1900 to 1960) and IV Paper IV: History of Modern Maharashtra (1960-2000)	CO1: Understand the beginnings and growth of nationalist consciousness in Maharashtra. CO2: Explain the contribution of Maharashtra to the national movement CO3: Acquaint himself with the contribution of eminent leaders of Maharashtra CO4: Know about the economic transformation of Maharashtra
B.A.II (Optional) Sem. III: Paper IV: History of India (1757-1857) and IV Paper VI: History of Freedom Struggle (1857-1947)	CO1: Acquaint with significant events leading to establishment of the rule of East India Company. CO2: Understand the structural changes initiated by colonial rule in Indian economy. CO3: Understand the events which lead to the growth of nationalism in India.
B.A.II (IDS) Sem. III: Paper I: Social Reforms in India and IV: Paper II: Social Reforms in Maharashtra	CO1: Understand the salient features of prominent socio-religious reform movements. CO2: Explain the thought and work of Mahatma Phule, Rajarshi Shahu Maharaj and Ambedkar. CO3: Understand the contribution of women reformers.
B.A. III (Special): Paper	CO1: Understand the transition of humans in India from Hunters to



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No. VII: Early India and Semester VI: Paper No. XII: Ancient India (From 4th c. BC to 7th c. AD)	Farmers. CO2: Explain the transition from Early to Later Vedic period. Vardhamana Mahavira. CO3: Describe the rise and growth of the Mauryan Empire After completing the course. CO4: Know the political, economic and religious developments which took place in early historic India.
B.A. III(Special): Semester V: Paper No. VIII: History of Medieval India (1206-1526 AD), Semester VI: Paper No. XIII: History of Medieval India (1526-1707 AD)	CO1: Describe the different types of historical sources available for writing the history of medieval India CO2: Explain the contributions of medieval rulers. CO3: Know about the various sources for writing Medieval Indian history CO4: Explain the role of rulers like Babar, Akbar, Chandbibi and Ibrahim Adilshah II.
B.A. III(Special): Semester V: Paper No. IX Age of Revolutions; Semester VI: Paper No. XIV Making of the Modern World (16th to 19th Century)	CO1: Explain the causes and consequences of the Reformation CO2: Give an account of the role played by Martin Luther CO3: Explain the salient features of the Industrial revolution, American and French Revolution. CO4: Know the causes and consequences of the Glorious revolution in England CO5: Explain the concept of Nationalism, unification of Italy and Germany and impact of Imperialism.
B.A. III(Special): Sem. V: Paper No.: X Political History of the Marathas; Sem. VI: Paper No.: XV Polity, Economy and Society under the Marathas	CO1: Describe the political conditions of the Marathas up to the year 1740 CO2: Explain the role of Balaji Bajirao, the causes and effects of the Battle of Panipat. CO3: Know the various sources for writing the history of the Marathas CO4: Explain the significant developments in the polity of the Marathas.
B.A. III(Special): Sem. VI: Paper No.: XI History: Its Theory; Semester VI: Paper No.: XVI Methods and Applications of History	CO1: Understand the definition and scope of the subject of History CO2: Explain the process of presenting and writing history CO3: Understand the nature of archival sources CO4: Gain conceptual clarity about recent trends in history. CO5: Know the application of history in museums.



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Department of Geography

Programme Name: B.A. (Course: Geography)

Programme Outcomes: After completion of the Programme, the students will be able to:	
PO1	Be a Good and Knowledgeable Citizen.
PO2	Understand the knowledge in the field of geography.
PO3	Become conscious about the earth eco-system.
PO4	Get career opportunities.
PO5	Work for the betterment of Society.
Programme Specific Outcomes: After completion of the Programme, the students will be able to:	
PSO1	Understand various branches of geography.
PSO2	Understand geographical ideas and thoughts.
PSO3	Understand the importance of healthy environment for living being.
PSO4	Develop the geographical skills and its applications in day-to-day life.
PSO5	Helpful for self-development as well as national development.
Course Outcomes: After completion of the course, the student will be able to:	
B.A. Part I Sem. I (Optional) Physical Geography DSC-10	CO1. Know the basic concept of physical geography. CO2. Understand the information concept regarding the earth's atmosphere. CO3. Aware about interior of the earth movements, earth crust and catastrophic forces. CO4. Aware about the external forces of the earth crust.
B.A.-I, Sem. I (Optional) Human Geography DSC-B24	CO1. Know the basic concept of human geography. CO2. Understand the uneven distribution of population on the earth's surface. CO3. Learn about the types of human settlements and their functions CO4. Know about agriculture as a major occupation of human being and its problems.
B.A.II (Optional) Sem. III P-III Soil Geography P-IV Resource Geography	CO1. Understand the basic concept of soil geography. CO2. Understand the methods of soil conservations as a resource and classification of Resources. CO3. Acquire knowledge about major resources with their distribution, utilization and problems. CO4. To know the sustainable resource development and the conservation of resources.
B.A.II (Optional) Sem. IV Oceanography – V Agriculture Geography - VI	CO1. Know the basic concept of Oceanography. CO2. Understand the importance of oceans and marine resources. CO3. Able to know the Agricultural concept and modern technology used in agriculture. CO4. Know about the green revolution and its importance.



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B.A. III. Sem. V (Special) P-VII Evolution of Geographical Thought	CO1. Understand the Evolution of Geographical Thought. CO2. Understanding of recent trends in Geography. CO3. Get information of various models of paradigms and debates in the geographical studies. CO4. To analyse the recent trends in Geography.
B.A. III. Sem. V (Special) P-VIII Geography of India	CO1. Understand the Physicography of India. CO2. Know about the mechanism of Indian monsoon. CO3. Get information about soils, Vegetation and drainage systems in India. CO4. Understand the importance of agriculture and Industries in Indian Economy.
B.A. III, Sem. V (Special) P-IX Population Geography	CO1. Understand the basics of Population Geography. CO2. Understand distribution and trends of population growth. CO3. Acquainted with the implications of population composition in different regions of the world. CO4. Get acquainted with the dynamics of population.
B.A. III, Sem. V (Special) P-X Economic Geography	CO1. Understand the basics of Economic Geography. CO2. Knowledge about locational factors of economic activities with special reference to agriculture and Industry. CO3. Understanding of the basic concepts related to manufacturing and major manufacturing industries of the world. CO4. Understand of the transport and trade.
B.A. III. Sem. VI (Special) P-XI Urban Geography	CO1. Understand the basics of Urban Geography. CO2. Get acquainted with the factors of urbanization. CO3. Understand the urban problems and awareness of clean city.
B.A. III. Sem. VI (Compulsory) P-XII Political Geography	CO1. Understand the basics of Political Geography. CO2. Understand the fundamental concepts and theories of Political Geography. CO3. Get acquainted with resource conflicts and politics of displacement.
B.A. III. Sem. VI (Special) P-XIII Practical Geography I	CO1. Understand the importance of Map making and map interpretation. CO2. Familiarize with the different cartographic techniques and methods to represent geographical data. CO3. Understand the advanced tools and techniques used in geographical study.
B.A. III. Sem. VI (Compulsory) P-XIV Practical Geography II	CO1. Understand the importance of field work and techniques in geography. CO2. Knowledge about the use of computer for analysis of geographical data. CO3. Understand the basics and trained in instrumental survey. CO4. Deeply familiar with computer, GIS, GPS and remote Sensing.



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Department of Political Science

Programme Name: B.A. (Course: Political Science)

Programme Outcomes: After completion of the Programme, the students will be able to:	
PO1	Develop leadership with public vision.
PO2	Enhance innovative approach of the student towards profession in Political Science.
PO3	Develop inclusive understanding of representation.
PO4	Become a responsible citizen will informed in fundamental rights and obligations as well.
Programme Specific Outcomes: After completion of the Programme, the students will be able to:	
PSO1	Learn organization of government machinery and representation.
PSO2	Get effectiveness in translating the government philosophy into programme.
PSO3	Deal with the concepts and dimensions of international politics.
PSO4	Understand the constitutional and legal provision of America.
PSO5	Understand the continuity and change within the western political traditions.
Course Outcomes: After completion of the course, the student will be able to:	
B.A. Part I Sem. I and II (Optional)	CO1. Understand the key concept of Political Science, state, democracy, nation. CO2. Understand Indian Constitution. CO3. Learn the Philosophy of Indian Constitution.
B.A.II (Optional) Sem. III and IV	CO1. Understand basic concept of Political Science and state theory. CO2. Acquaint with ancient Indian Political Thoughts. CO3. Understands in to theories of origin state.
B.A.II (Optional) Sem. III and IV	CO1. Get the knowledge Indian Political process and federal system. CO2. Understand political, social movements in India. CO3. Explain political classical traditional thoughts in India.
B.A. III (Special)	CO1. Understand modern political concepts, unitary and federal form Government System. CO2. Understand in election representation. CO3. Get comprehensive idea of contemporary scenario in Political Science.
B.A. III (Special)	CO1. Understand public, personal, financial administration. CO2. Provide knowledge about theories advocated. CO3. Give emphasis on Administrative Thinkers.
B.A. III (Special)	CO1. Understand the main theories of International Politics. CO2. Understand the working of International, National, regional Organization. CO3. Understand current national and international political situation and foreign policy.
B.A. III (Special)	CO1. Understand the constitution of America and UK. CO2. Explain the constitutional and legal provision. CO3. Understand the differences and similarities between the various constitutional arrangements.



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B.A. III
(Special)

CO1. Understand the western classical tradition from Plato to Montesquieu.
CO2. Study historical aspects of western states and society.
CO3. Understand the modern western views from Hegel, Karl Marx and Lenin.



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Department of Economics

Programme Name: B.A. (Course: Economics)

Programme Outcomes: After completion of the Programme, the students will be able to:	
PO1	Develop economic leadership.
PO2	Increase economic literacy.
PO3	Get the skills required to respond to and analyze the global business and economic issues.
PO4	Get information of monetary policy, fiscal policy, international policy, product pricing and factor pricing.
PO5	Acquire information about past and present economic trends.
Programme Specific Outcomes: After completion of the Programme, the students will be able to:	
PSO1	Understand basic concepts of micro economics and macroeconomics.
PSO2	Create students' ability to suggest solutions for various economic problems.
PSO3	Analyze past and present events from an economic perspective.
PSO4	Create awareness of economic activity in Indian and world economy.
Course Outcomes: After completion of the course, the student will be able to:	
B.A. Part I Sem. I and II (Optional)	CO1. Understand economic development since independence. CO2. Understand challenges facing the Indian economy. CO3. Get acquainted with the policies and performance of major sector in Indian economy.
B.A. II (Optional) Sem. III and IV	CO1. Know nature and scope of macro economics. CO2. Understand concepts of national income and value of money. CO3. Understand business cycles and theories of business cycles Understand general theory.
B.A. II (Optional) Sem. III and IV	CO1. Get information about commercial banking and credit creation. CO2. Know practical banking and understand functions of RBI and Monetary policy. CO3. Know E-banking and its importance.
B.A. III (Special)	CO1. Understand consumer decision making and consumer behavior. CO2. Understand the nature of revenue and cost of production. CO3. Identify the market structure. Principle of micro economics.
B.A. III (Special)	CO1. Identify the dimensions of development and know the theories of economic development. CO2. Get acquainted with economic planning and its Importance in development. CO3. Understand Economic Planning in India.
B.A. III (Special)	CO1. Explain International trade and international trade theories. CO2. Understand the measurement of gains from international trade. CO3. Distinguish between balance of trade and balance of payments.



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B.A. III (Special)	CO1. Get acquainted with the basic concepts of research and its methodologies CO2. Understand the sampling techniques as a method of data collection CO3. Write a research report and thesis.
B.A. III (Special)	CO1. Understand the basic economic ideas of various economic thinkers of the world. CO2. Understand the development of economic thoughts CO3. Understand the economic concepts and theories of Neo- Classical and Indian Thinkers.

Faculty of Commerce

Programme: B.Com.

Programme Outcomes: After completion of the Programme, the students will be able to:

- PO.1)** Gain theory and practical knowledge in the areas of management, accounting, finance, insurance, marketing, law, accounts, banking, business, economics.
- PO.2)** Solve problems of business with analytical and critical thinking.
- PO.3)** Learn P.G. courses like M.Com., M.B.A. and other courses.
- PO.4)** Work in accounting, taxation, marketing, management and other Business-related areas.
- PO.5)** Develop their entrepreneurship skills and become a successful Entrepreneur.

(Course:Advanced Accountancy)

Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- PSO.1)** Understand practical and theoretical aspect of accounting, auditing, costing and taxation.
- PSO.2)** Complete M.Com. in Advanced Accountancy Subject.
- PSO.3)** Get the chances of making career in accounting and taxation sector.

(Course:Advanced Costing)

Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- PSO.1)** Understand costing methods and techniques.
- PSO.2)** Understand practical aspects of costing and cost accounting and management accounting.
- PSO.3)** Pursue M.Com. in Advanced Costing Subject.

(Course:Industrial Management)

Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- PSO.1)** Understand overall management of business unit.
- PSO.2)** Understand Human Resource Management.
- PSO.3)** Pursue career in industrial management sector.

(Course:Advanced Banking)

Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- PSO.1)** Understand theoretical and practical aspects of banking sector.
- PSO.2)** Understand capital market and money market operations.
- PSO.3)** Pursue career in banking sector.



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B. Com. I, Sem. I and II (NEP-1.0)

Course Outcomes: After completion of the course, the student will be able to:	
Micro Economics Paper I and II (Core Course)	CO.1) The student should be able to apply tools of consumer behavior and firm theory to business situation. CO.2) The student should be able to apply tools of consumer behavior and firm theory to business situation.
Financial Accounting Paper I and II (Core Course)	CO.1) To get an idea about the basic of accounting, accounting concepts and conventions and accounting process. CO.2) To acquaint with skill of recording transactions related to amalgamation of partnership firm. CO.3) To understand the knowledge about computerized accounting. CO.4) To make use of knowledge and skill for accounting of branches.
Management Principles and Applications Paper I and II (Core Course)	CO.1) To acquaint with the knowledge of organizing various resources. CO.2) To understand the concepts of authority and process of delegation of authority. CO.3) To get an idea about motivation concept and theories. CO.4) To understand various emerging issues in management like green management and to understand concept of Change
Insurance Paper I and II (Generic Elective Course)	CO.1) To enable the students to know the fundamentals of Insurance. CO.2) To give exposure to the students about life insurance products, Procedural part and life insurance business in India. CO.3) To give exposure to the students about general insurance, procedural part, general insurance business and FDI in insurance in India.
Principles of Marketing Paper I and II (Generic Elective Course)	CO.1) The students will know various marketing concepts, basics of marketing and he or she will be able to assess for consumer behavior. CO.2) The students will know about management of retailing operations and changing scenario of retail business in India.
Marathi Paper I and II (Generic Elective Course)	CO.1) Understand Marathi literature and the creative process and nature of literature. CO.2) Get the interest in reading Marathi literature. CO.3) Develop communication skills in formal and informal Marathi.
English for Business Communication Paper I and II (Ability Enhancement Compulsory Course)	CO.1) To acquaint students with communication skills. CO.2) To improve the language and business competence of the students.

B. Com. II Sem. III and IV (NEP)



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Course Outcomes: After completion of the course, the student will be able to:

Corporate Accounting Paper I and II	CO.1) Demonstrate accounting for issue of bonus shares, rights shares and sweat equity. CO.2) Demonstrate accounting for issue of debentures and redemption of debentures. CO.3) Demonstrate accounting for redemption of Preference Shares. CO.4) Compute the value of shares as per distinct methods and differentiate between them.
Fundamentals of Entrepreneurship Paper I and II	CO.1) To impart theoretical knowledge of Entrepreneurship. CO.2) To develop Entrepreneurship qualities and skills. CO.3) To aware students about Business Plan and Project Report. CO.4) Learn Business Planned Project Report.
Money & Financial System Paper I and II	CO.1) Students explain the concept of money, its new incarnations and flow in to the economy CO.2) Understand the nature of banking business and business Practices. CO.3) Students equipped explain and make use of the E- Banking services CO.4) Students enable to analyze the stance of RBI's monetary policy
Business Statistics Paper I and II	CO.1) To explain the scope of statistics in business and apply sampling techniques in real life. CO.2) To summarize data by means of measures of central tendency and dispersion. CO.3) Understand discrete and continuous random variables, their respective probability distributions. CO.4) Identify the applications of Binomial, Poisson and normal distributions.
Business Economics Paper III and IV	CO.1) The macro variables and nature and scope of macro economics CO.2) The relevance of national income concepts and their applications. CO.3) Theories of trade cycle in connection with business CO.4) The trade and business practices through international trade theories
English for Business Communication Paper III and IV	CO.1) To equip the students with the language skills for use in their personal, academic and professional lives. CO.2) To develop students' employability skills. CO.3) Show the active involvement in learning process. CO.4) Cultivate a broad, human and cultured outlook.
Environmental Studies (EVS)	CO.1) Develop awareness amongst the students about environment protection. CO.2) Familiarize with the serious consequences of pollution and catastrophic loss. CO.3) Understand the importance of sustainable development.



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B. Com. III, Sem. V and VI (CBCS)

Course Outcomes: After completion of the course, the student will be able to:

Modern Management Practices Paper I and II	CO.1) To understand the concept of lean and talent management. CO.2) To know the concepts of emotional and social intelligence. CO.3) To know the concept of Event and Performance Management. CO.4) To impart knowledge of total quality management.
Business Regulatory Framework Paper I and II	CO.1) Get legal awareness. CO.2) Understand various Laws and Acts which have impact on business and industry. CO.3) Understand laws relating to Corporate Business Entities. CO.4) Understand SEBI act 1992. CO.5) Understand Business Transactions and Cyber security.
Business Environment Paper I and II	CO.1) Student should able to understand the significance and position of Indian economy at the world level. CO.2) Students should study the scenario of agricultural and industrial sectors. CO.3) Students will understand the Indian and global economic environment. CO.4) Students will equip with proper knowledge of Indian economic planning.
Co-operative Development Paper I and II	CO.1) To study the meaning and principles of Co-operation. CO.2) To Study the important cooperative organizations. CO.3) To study the cooperative legislations and fund management. CO.4) To understand the cooperative audit system and provisions.
Advanced Accountancy Paper I	CO.1) Practice the preparation of financial statements of banks. CO.2) Demonstrate accounting for farms and hire purchase system. CO.3) Explain the accounting process on Tally with GST.
Advanced Accountancy Paper II	CO.1) To understand the concept and types of audit. CO.2) To identify the residential status and its implication on tax liability. CO.3) To understand the concept of exemption from income.
Advanced Accountancy Paper III	CO.1) Practice the preparation of financial statements of banks. CO.2) Demonstrate accounting for farms and hire purchase system. CO.3) Simulate accounting situations of insurance claim.
Advanced Accountancy Paper IV	CO.1) To understand the basic concepts of income tax and basis of charge. CO.2) To identify the residential status and its implication on tax liability. CO.3) To understand the manner of computation of total income.
Advanced Costing Paper I	CO.1) To understand the basic concepts of cost accounting. CO.2) To classify the cost and apply the same for cost determination. CO.3) To understand the cost accounting procedure in respect of materials.
Advanced Costing Paper II	CO.1) To identify the meaning of overheads and its classification. CO.2) To understand different methods of absorption of overheads.



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		CO.3) To understand meaning of activity-based costing and its practical application.
Advanced Paper III	Costing	CO.1) To understand the concepts of job and unit costing. CO.2) To identify meaning of service costing and its application. CO.3) To understand procedure of contract costing and its practical implementation
Advanced Paper IV	Costing	CO.1) To know the applications of marginal costing in decision making. CO.2) To understand prospects of cost accounting standards. CO.3) To know the concept and types of budgets and concept of budgetary control.
Industrial Management Paper I		CO.1) To make students familiar with the subject industrial management. CO.2) To expose the students the importance and applicability of industry management.
Industrial Management Paper II		CO.1) To make students familiar with the subject human resource management. CO.2) To expose the students the importance and applicability of human resource management.
Industrial Management Paper III		CO.1) To make students familiar with the subject industrial management. CO.2) To Expose the students the importance and applicability of industrial management.
Industrial Management Paper IV		CO.1) To make students familiar with the subject industrial management. CO.2) To expose the students the importance and applicability of industry management.
Advanced Paper I	Banking	CO.1) Learners will be able to explain Regulatory Framework for Banking in India CO.2) Learners will understand the important laws relating banking sector. CO.3) Learners will understand different provisions under cyber-Laws.
Advanced Paper II	Banking	CO.1) Learners will be able to explain Retail and Corporate Banking systems CO.2) Learners will understand business practices in money market and capital market. CO.3) Learners will understand functioning of different Intermediaries in Financial Markets
Advanced Paper III	Banking	CO.1) Learners will be able to understand the nature and structure of Financial Market in India. CO.2) Knownegotiable instruments loanand advances and electronic banking. CO.3) Understand the legal aspects of banking transactions and its implications asbanker and customer.
Advanced Paper IV	Banking	CO.1) Learners will be able to understand the nature and structure of Financial Market in India. CO.2) Learners will understand business practices in money market and



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capital market

Department of Commerce (PG)

Programme Name: M. Com.

Programme Outcomes: After completion of the Programme, the students will be able to:

- PO.1) Apply for UGC NET/SET or JRF exam.
- PO.2) Pursue advanced studies in the area of research such as M.Phil., Ph.D.
- PO.3) Join accounting, banking, investment, taxation and insurance areas.
- PO.4) Get job in accountancy and business service that covers many areas such as audit and advisory work, taxation, business consulting, insurance and management accounting.

Course: Advanced Costing

Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- PSO.1) Understand procedure of cost accounting.
- PSO.2) Understand costing methods and costing techniques.
- PSO.3) Pursue career in the field of Cost Accounting.

Course: Advanced Taxation

Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- PSO.1) Pursue career in the field of Direct and Indirect taxation.
- PSO. 2) Understand procedure of Direct and Indirect taxation.
- PSO. 3) Understand procedure of tax liability determination and E-Tax filing.

M. Com. I Sem. I&II (NEP 2020)

Course Outcomes: After completion of the course, the student will be able to:

Business Management (Compulsory Paper I)	CO.1) Understand the theoretical aspects of management and strategic management. CO.2) Describe the theoretical aspects of management and strategic management. CO.3) Understand the contemporary issues in management.
Organizational Behavior (Compulsory Paper II)	CO.1) Describe theoretical concepts of organizational Behaviour. CO.2) Classify types of personalities Summarize types of conflicts. CO.3) Summarize adoption of organizational culture.
Advanced Cost Accountancy (Paper I and II)	CO.1) Understand the Basic Concepts of cost accounting. CO.2) Know the application of cost accounting in calculation of labour cost and overheads. CO.3) Understand the different techniques of material control. CO.4) Prepare Bin Card and Stores Ledger.
Advanced Cost Accountancy (Paper III and IV)	CO.1) Students will Prepare Cost Records under Job and Batch Costing CO.2) Students will Prepare Cost Records under Contract Costing, Process Costing and Operating Costing. CO.3) Know the basic information related to income tax



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	CO.4) Understand procedure of assessment and income tax authorities.
Advanced Cost Accountancy (Paper V and VI)	CO.1) To understand the techniques of costing for decision making. CO.2) To Identify the standard costs and compare them with the actuals. CO.3) To Understand the concept and applications of Cost Accounting Standards. CO.4) To Understand the reporting requirements under Cost Audit.
Advanced Cost Accountancy (Paper VII and VIII)	CO.1) To Understand the use of cost in different areas of decision making. CO.2) To analyses the use of cost in pricing decisions. CO.3) To Understand the basic concept and objectives of audit CO.4) To Know the recent trends in practice of audit.
Advanced Taxation (Paper I and II)	CO.1) To understand the Exemptions and Deductions. CO.2) To Compute Income from House property, Capital Gains and Income from other sources. CO.3) To Understand Clubbing of Income, Set-off and Carry Forward of Losses, Tax Rates. CO.4) Compute income of individual and HUF and Tax thereon.
Advanced Taxation (Paper III and IV)	CO.1) To Know the penalties, Offences and Prosecutions, Income tax Returns, E-filing of Returns and E-Payments of Taxes. CO.2) To understand the provisions of TDS and TCS. CO.3) To the basic information related to income tax. CO.4) To Understand procedure of assessment and Income tax Authorities.
Advanced Taxation (Paper V and VI)	CO.1) To Understand the concept of Goods and Services Tax. CO.2) To Identify the activities tax able under GST. CO.3) To know the significance of Invoices, Debit and Credit Notes. CO.4) To demonstrate the procedure of payment of GST and filling returns of GST.
Advanced Taxation (Paper VII and VIII)	CO.1) To Understand the basic concepts of customs duty and profession tax. CO.2) To compute customs duty on imported products. CO.3) Understand the basic concepts and objectives of audit. CO.4) To Gain working knowledge of generally accepted auditing procedure.
Research Methodology (Compulsory Paper)	CO.1) Familiarity with basics of research CO.2) Designing research protocol for research problem. CO.3) To Preparation of the instruments for data collection. CO.4) Ability of analysis and interpretation of data.
On the Job Training (OJT)	CO.1) Expose the Students to the real-life situation. CO.2) Develop and ability of critical thinking CO.3) To analyze the problem in an origination and suggests and remedial actions. CO.4) To gain working knowledge of the job and profession to get insides of the business.



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M. Com. II Sem. III and VI (CBCS)

Business Finance Paper I and II	CO.1) Apply fundamental concepts of business finance and examine various finance decisions CO.2) Compare different types of capital structure & illustrate various components of Working Capital Management CO.3) Become familiar with practical trading techniques in Indian stock market CO.4) Become aware of recent trends in business finance scenario with specific reference to Startup Funding, Angel Financing and FinTech services
Management Accounting Paper I and II	CO.1) Understand the fundamentals of Management Accounting. CO.2) Demonstrate the estimation of working capital requirements. CO.3) Understand the fundamentals of Management Control System and Reporting. CO.4) Explain the marginal costing and cost-volume-profit analysis and practice decision making based thereon.
Advanced Costing Paper V and VI	CO.1) To understand the techniques of costing for decision making & to analyze the cost for decision making with the help of marginal costing CO.2) To demonstrate the behaviour of cost drivers and its relevance CO.3) To understand the concept and applications of Cost Accounting Standards CO.4) To understand the reporting requirements under Cost Audit
Advanced Taxation V and VI	CO.1) To understand the basic concepts of customs duty and profession tax CO.2) To understand the procedure of returns and assessment under Customs Act CO.3) To understand basic elements of computation and tax liability CO.4) To analyse various sources of income and their taxability
Advanced Costing Paper VII and VIII	CO.1) Understand the use of cost in different areas of decision making. CO.2) Understand the concept of transfer pricing and its applications. CO.3) To understand the concept of Cost Management CO.4) To demonstrate the measures of Performance Evaluation for Strategic Management
Advanced Taxation Paper VII and VIII	CO.1) To understand the concept of Goods and Services Tax CO.2) To understand the concept of Input Tax Credit under GST CO.3) To know the significance of Invoices, Debit and Credit Notes CO.4) To demonstrate the procedure of payment of GST and filing returns of GST



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B.C.A(Bachelor of Computer Application)	
Programme Outcomes	
PO1	Apply knowledge of ICT in solving business problems.
PO2	Learn various programming languages and custom software.
PO3	Design component, or processes to meet the needs with in realistic constraints.
PO4	Identify, formulate, and solve problems using computational temperaments.
PO5	Comprehend professional and ethical responsibility in computing profession.
PO6	Express effective communication skills
PO7	Recognize the need for interdisciplinary, and an ability to engage in lifelong learning.
PO8	Knowledge of contemporary issues and emerging developments in computing profession.
PO9	Utilize the techniques, skills and modern tools, for actual development process.
Programme Educational Outcomes	
PEO1-Technical Expertise	Implement fundamental domain knowledge of core courses for developing effective computing solutions by Incorporating creativity and logical reasoning.
PEO2-Successful Career	Deliver professional services with updated technologies in Computer application-based career.
PEO3-Interdisciplinary and Life Long Learning	Develop leadership skills and incorporate ethics, team work with effective communication & time management in the profession. Undergo higher studies, certifications and technology research as per market needs.



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Course Outcomes: After completion of the course, the student will be able to:

B.C.A. – I (Sem.-I) Fundamentals of Computer	<p>CO.1 Understand basic concepts of computer.</p> <p>CO.2 Describe peripheral devices and number systems.</p> <p>CO.3 Understand operating environment</p> <p>CO.4 Demonstrate the use of Linux Operating system commands</p>
B.C.A. – I (Sem.-I) Introduction to Programming using 'C'	<p>CO.1 Able to implement the algorithms and draw flow charts for solving Mathematical problem.</p> <p>CO.2 Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.</p> <p>CO.3 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 of structures and file Handling.</p> <p>CO.4 Develop confidence for self-education and ability for life-long learning needed for computer language.</p>
B.C.A. – I (Sem.-I) Principle of Management	<p>CO.1 Understand the influence of historical forces on current practice of management.</p> <p>CO.2 Understand frameworks in the four functions of management.</p> <p>CO.3 Understand leadership styles to anticipate the consequences of each leadership style.</p> <p>CO.4 Be able to identify and apply appropriate management techniques for organizations.</p> <p>CO.5 Understand social responsibility involved in business situations.</p>
B.C.A. - I (Sem.-I) Business Communication	<p>CO.1 Communicate in English in written as well as oral mode.</p> <p>CO. 2 Make presentations in English.</p> <p>CO.3 Do effective business correspondence.</p>
B.C.A. - I (Sem.-I) Office Automation	<p>CO.1 Understand the components of office automation</p> <p>CO.2 Perform operations using MS Word and PowerPoint</p> <p>CO.3 Surf details through Internet</p> <p>CO.4 Understand and discuss about the use of Office Package and internet in daily life.</p>
B.C.A. – I (Sem.-II) DBMS	<p>CO.1 Describe the basic concepts of DBMS and various databases used in real applications</p> <p>CO.2 Demonstrate the principles behind systematic database design approaches.</p> <p>CO.3 Design the database structure by applying the concepts of Entity-relational model and Normalization.</p> <p>CO.4 Learn MS-Access for database creation and handling transactions.</p>
B.C.A. – I (Sem.-II) Operating System	<p>CO.1 Possess knowledge of Operating Systems and their types.</p> <p>CO.2 Apply the concept of a process and scheduling algorithms.</p>



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	CO.3 Realize the concept of deadlock and different ways to handle it. CO.4 Understand various memory management techniques and file system.
B.C.A. – I (Sem.-II) Web Technology I	CO.1 Understand basics of website and web development lifecycle. CO.2 Design web site using HTML and CSS CO.3 Implement client-side scripting for website development CO.4 Understand importance and working of HTML 5 CO.
B.C.A. – I (Sem.-II) Financial Accounting with Tally	CO.1 Use basic accounting terminology, procedures and systems of maintaining accounting records. CO.2 Understand financial statements CO.3 Learn to create company, enter accounting voucher entries and also print financial statements, etc. in Tally. CO.4 Demonstrate MIS reports in Tally ERP.
B.C.A. – I (Sem.-II) Mathematical Foundations for Computer Applications	CO.1 Basic knowledge of set theory, functions and relations concepts, matrix needed for designing and solving problems. CO.2 Construct simple mathematical proofs and possess the ability to verify them. CO.3 Write an argument using logical notation and determine if the argument is valid or is not valid. CO.4 Use graph algorithms to solve problems.
B.C.A. –II (Sem.-III) RDBMS	CO.1 Describe the fundamental elements of Relational Database Management Systems. CO.2 Explain various commands, sub queries & joins in MySQL with example. CO.3 Enhance programming skills and techniques using MySQL and PL/SQL CO.4 To solve database problems using MySQL and PL/SQL by using Cursors and Triggers.
B.C.A. –II (Sem.-III) Computer network & internet	CO.1 Understand the concept of computer network. CO.2 Identify different components required to build different networks. CO.3 Recognize the functions of network layer and different protocols. CO.4 Discuss the important features of the Internet and Web.
B.C.A. –II (Sem.-III) Data structure using 'C'	CO.1 Use and implement appropriate data structure for the required problems using a programming language such as C. CO.2 Understand various searching & sorting techniques. CO.3 Implementing various data structures Stacks & Queues. CO.4 Implementation of Linked Lists and Trees.
B.C.A. –II (Sem.-III) Elements of statistics	CO. 1 Represent the data in pictorial and graphical form. CO. 2 Describe and understand the data with the help of various measures of data. CO. 3 Analyze bivariate data. CO. 4 Understand the concept of probability and probability distributions.



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B.C.A II (Sem. III) Human resource management & materials management	CO.1 Understand HR Management and planning. CO.2 Describe process of Appraisal/training and Development. CO.3 Recognize Integrated approach to Material Management and computer Applications in Material Management. CO.4 Demonstrate HR in purchasing and Inventory control techniques.
B.C.A II (Sem. III) Skill Development III	CO.1 Enhance Self Understanding. CO.2 Understand Business Etiquette and Manners.
B.C.A.-II (Sem.-IV) Object Oriented Programming Using C++	CO.1 Understand object-oriented programming and advanced C++ concept. CO.2 Apply the concepts of object, classes and constructor. CO.3 Design C++ Programs based on object, class, inheritance, abstraction, encapsulation, dynamic binding and polymorphism. CO.4 Implement concept of polymorphism in program.
B.C.A.-II (Sem.-IV) Software Engineering	CO.1 Understand lifecycle models, requirement elicitation techniques, understand the concept of analysis and design of software. CO.2 Develop SRS document. CO.3 Use of analysis and design tools for system development. CO.4 Apply software engineering concepts in software development to develop quality software.
B.C.A.-II (Sem.-IV) PHP	CO.1 Understand the basics of PHP programming language and its role in web development. CO.2 Implement functions and arrays in PHP to solve programming problems. CO.3 Design web forms using HTML and process user input using PHP. Execute file uploads and perform file handling operations in PHP applications.



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Faculty of Science

Programme Name: B. Sc. (Course: Botany):

Programme Outcomes: After completion of the Programme, the students will be able to:

PO. 1	Develop skill in practical work and experiment in laboratory.
PO. 2	Understand scientific terms, concepts, facts, phenomenon and their relationships.
PO. 3	Work in the field of research and other fields of their own interest and to make them fit for society.
PO. 4	Acquire knowledge of plant and related subjects so as to understand natural phenomenon
PO. 5	Develop ability for the application of the acquired knowledge to improve agriculture and other related fields.

Programme Specific Outcomes: After completion of the Programme, the students will be able to:

PSO. 1	Obtain strong foundation in classical botany.
PSO. 2	Build capacity in Horticulture, Greenhouse management, Production of cut flowers and loose flowers from the elective courses offered.
PSO. 3	Build life skills in Edible mushroom cultivation, Bio fertilizer production, Greenhouse maintenance and Seed technology through value-added courses.
PSO. 4	Scale up the biological resources by designing optimization, preparation and analysis of products required for Society.
PSO .5	Gain career in teaching/research in Botany.

Course Outcomes: After completion of the course, the student will be able to:

B.Sc. Part I Sem. I Paper No. I MICROBES, ALGAE AND BIOFERTILIZER	<p>CO1. Students will able to recognize the structure, types and multiplication of viruses.</p> <p>CO2. Students will able to understand the bacterial types, structure and mode reproduction</p> <p>CO3. Students will able to identify the different types of algae and their importance in day today life.</p> <p>CO4. Students will able develop the skills for the production of different type of Bio fertilizers,</p>
B.Sc. Part I Sem. I Paper No. II CELL BIOLOGY AND ANYALYTICAL TECHNIQUE	<p>CO1. Students will able to distinguish the prokaryotic and eukaryotic organisms and acquire the knowledge of different plant cell organelles and its role in the plant body.</p> <p>CO2. Students will able to understand the different types of cell division and its phases.</p> <p>CO3. Students will able to handle all types of microscope.</p> <p>CO4. Students will able to develop a skill in the chromatography techniques.</p>

B.Sc. Part I Sem. II Paper No. III MYCOLOGY, PHYTOPATHOLOGY AND MUSHROOM CULTIVATION	<p>CO1. Students will able to identify and classify the different fungi and also realize the economic importance of fungi.</p> <p>CO2. Students will able to identify the lichens on the basis of morphology and to know the medicinal value of the lichens.</p> <p>CO3. Students will be able to recognize the different plant diseases and their management.</p> <p>CO4. Students will able to develops the soft skill technique in the</p>
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	Mushroom Cultivation and realize the commercial status of the mushrooms.
B.Sc. Part I Sem. II Paper No. IV ARCHEGONIATE	CO1. Students will be able to identify the bryophytes their importance. CO2. Students will be able to recognize the characters and ecological importance of pteridophytes. CO3. Students will be able to identify, classify the gymnosperms and understand the Economic importance of gymnosperms.
B.Sc. Part II Sem. III Paper No. V PLANT SYSTEMATICS AND ANATOMY	CO.1. To know the scope and importance of the plant systematically CO.2 To understand plant morphology, nomenclature and classification CO.3. To prepare and demonstrate herbarium and to understand importance of Botanical garden CO.4. To examine internal organization of plant organs.
B.Sc. Part II Sem. III Paper No. VI GENETICS AND MOLECULAR BIOLOGY	CO.1. To understand the principles of Mendelian inheritance and gene interaction. CO.2. To differentiate between structural and numerical variations in chromosomes. CO.3. To analyze and solve genetic problems on linkage and crossing over. CO.4. To know the composition and significance of nucleic acids.
B.Sc. Part II Sem. IV Paper No. VII PLANT ECOLOGY AND ECONOMIC BOTANY	CO.1. To understand core concepts of biotic and abiotic components. CO.2. To gain insight into the diverse ecosystem, related food web and ecological. CO.3. To prepare map of Phytogeographical regions of India. CO.4. Know importance of plants and plant products and their utility.
B.Sc. Part II Sem. IV Paper No. VIII PLANT PHYSIOLOGY, NURSERY AND GARDENING TECHNIQUES	CO.1. To understand various physiological processes in plants. CO.2. To understand significance and mechanism of photosynthesis. CO.3. To know the process of respiration in higher plants. CO.4. To design outlines of landscaping and home gardening.
B.Sc. Part III Sem. V Paper No. IX REPRODUCTIVE BIOLOGY OF ANGIOSPERM	CO.1. I. Understand the Structure and Function of Reproductive Organs. CO.2. Explain the Process of Pollination and Fertilization. CO. 3. Understand the Development of Fruits and Seeds. CO.4. Analyze the Reproductive Strategies of Angiosperms
B.Sc. Part III Sem. V Paper No. X PLANT METABOLISM AND STRESS BIOLOGY	CO.1. Understand Plant Metabolic Pathways. CO.2. Explain Plant Stress Responses CO.3. Analyze Plant Hormone Signaling. CO.4, Understand Plant Defense Mechanisms.



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<p>B.Sc. Part III Sem. V Paper No. XI PLANT BIOTECHNOLOGY</p>	<p>CO.1. Understand the Structure and Function of Biomolecules. CO.2. Describe the process of nitrogen fixation, including the role of legumes and Rhizobia. CO.3. Explain the impact of environmental factors, such as light, temperature, and drought, on plant metabolism. CO.4. Demonstrate Practical Skills in Plant Biochemistry</p>
<p>B.Sc. Part III Sem. V Paper No. XII HORTICULTURE</p>	<p>CO.1. Discuss about Importance and divisions of Horticulture CO.2. Discuss about Horticultural Produce and Management of Pest and diseases in flowering plants. CO.3. Know the Nursery techniques and explain about plant propagation methods. CO.4. Know the outdoor & indoor gardening.</p>
<p>B.Sc. Part III Sem. VI Paper No. XIII PLANT BIOCHEMISTRY AND RESEARCH METHODOLOGY</p>	<p>CO.1. Describe the major biochemical pathways in plants, including photosynthesis, respiration, and nitrogen metabolism. CO.2 Apply research methodology principles to design and conduct experiments in plant biochemistry. CO.3. Explain the applications of molecular biology techniques in plant biochemistry research. CO.4. Demonstrate Practical Skills in Plant Biochemistry</p>
<p>B.Sc. Part III Sem. VI Paper No. XIV NATURAL RESOURCE MANAGEMENT AND HERBAL TECHNOLOGY</p>	<p>CO.1. Describe the importance of natural resource management for sustainable development. CO.2. Apply herbal techniques for the conservation and sustainable use of medicinal plants. CO.3. Explain the principles of indigenous knowledge systems and their application in natural resource management. CO.4. Analyze the Impact of Human Activities on Natural Resources.</p>
<p>B.Sc. Part III Sem. VI Paper No. XV PLANT DIVERSITY AND ETHNOBOTANY</p>	<p>CO.1. Describe the different levels of plant classification, including species, genus, family, order, class, and kingdom. CO.2. Explain the factors influencing plant diversity and distribution, including climate, soil, and evolutionary history. CO.3. Analyze and interpret ethnobotanical data using statistical and qualitative methods. CO4. Apply scientific writing and presentation skills to communicate plant diversity and ethnobotany information to different audiences.</p>
<p>B.Sc. Part III Sem. VI Paper No. XVI PLANT BREEDING, BIOINFORMATICS AND BIOSTATISTICS</p>	<p>CO.1. Describe the principles of plant breeding, including selection, hybridization, and mutation breeding. CO.2. Apply bioinformatics tools and techniques, including BLAST, PCR primer design, and phylogenetic analysis. CO.3. Develop and defend well-supported arguments and hypotheses related to plant breeding and biotechnology. CO.4. Prepare and deliver effective oral presentations, including seminars and poster presentations.</p>



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Programme Name: B. Sc. (Course: Zoology):

Department of Zoology

Programme Outcome-	
PO1	To make curiosity in the students for Zoology subject.
PO2.	To create awareness amongst students for the basic and applied areas of Zoology.
PO3.	To orient students about the importance of abiotic and biotic factors of environment and their conservation
PO4.	To provide an insight to the aspects of animal diversity.
PO5.	To Know the Animals physiology, behavior and its characteristics.
PO6.	To inculcate good laboratory practices in students and to train them about proper handling of lab instruments.

Programme Specific Outcome	
PSO1.	Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology.
PSO2.	Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology.
PSO3.	Understand the applications of Zoology in Agriculture, Medicine and daily life.
PSO4.	Gains knowledge about research methodologies, effective communication and skills of problem-solving methods
PSO5.	Contributes the knowledge for Nation building.

Course Outcome		
After successfully completing this course, students will be able to:		
B. Sc. Part – I Sem.– I Paper- I Animal Diversity-I	CO1:	Describe general taxonomic rules on animal classification.
	CO2:	Classify Protista up to phylum using examples from parasitic adaptation.
	CO3:	Describe Phylum Nematoda and give examples of pathogenic Nematodes.
B. Sc. Part – I Sem.– I Paper - II (Cell biology and Evolutionary Biology)	CO1:	Describe the structure and function of plasma membrane.
	CO2:	Understand Structure, functions and interactions of cell organelles and inclusions.
	CO3:	Explain the basis of evolution and fossil formations.
B. Sc. Part – I Sem.– II	CO1:	Describe general taxonomic rules on animal classification.



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Paper – III (Animal Diversity and insect vectors)	CO2:	Identify and to study different vectors.
	CO3:	Explain the various disease which occurs from vectors
	CO4:	Describe the physiology of Rat.
B. Sc. Part – I Sem.– II Paper – IV (Genetics)	CO1:	Explain Mendalism expanding Mendel's Laws.
	CO2:	Explain sex determining systems and dosage compensation.
	CO3:	Describe mutation, mutagenesis and repair
	CO4:	Explain the process of gene expression and applications.
B. Sc. Part II Sem.- III PAPER-V (Animal Diversity-II)	CO1:	Understand the underlying principles of classification of animals like Protochordata to Mammal.
	CO2:	To Understand the differences and similarities in the various aspects of classification.
	CO3:	To classify vertebrates and to be able to understand the possible group of the vertebrate observed in nature.
	CO4:	To identify poisonous nonpoisonous snakes.
	CO5:	To study the digestive and respiratory system in aves.
B. Sc. Part II Sem.- III Paper – VI Biochemistry	CO1:	To simplify the concepts of Biochemistry.
	CO2:	Define the DNA and RNA
	CO3:	Explain enzyme types, classification, reactions.
	CO4:	Explain the metabolism of Carbohydrate, Protein and Lipid.
Sem. IV Paper VII Reproductive Biology	CO1:	Explain the male and female reproductive system and its work.
	CO2:	Understand the process of formation of male and female gametes separately.
	CO3:	To know the different male and female reproductive related disorders.
Paper – VIII Applied Zoology -I	CO1:	To understand Host parasite Relationship
	CO2:	To know Epidemiology of Diseases.
	CO3:	To understand about Insects of Economic Importance.
	CO4:	To gain the knowledge related to Poultry Farming.
B. Sc. Part III Semester- V Paper- IX DSE-E29 (Comparative Anatomy Of Vertebrates)	CO1.	Explain integumentary systems.
	CO2.	To know the skeletal system of vertebrates.
	CO3.	To illustrate the comparative difference in vertebrates.
	CO4.	To understand the specific animal system difference.
Paper- X DSE-F29 (Molecular Cell	CO1:	Explain DNA structure.
	CO2:	Paraphrase the Central dogma of molecular biology.



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Biology and Animal Biotechnology	CO 3:	Illustrate the mechanism of replication, transcription and translation.
	CO4:	To understand the cloning techniques and vectors.
	CO5:	To knowing the various principles of biological techniques.
Paper- XI DSE-F30 (Biotechniques and Biostatistics)	CO1:	Explain the basic methods to make genetically modified animals.
	CO2:	To understand applications of Transgenic animals.
	CO3:	To illustrate the classification of data.
	CO4:	To solve the measures of central tendency.
	CO5:	Describe the Dispersion and correlation.
B. Sc. Part III Semester- VI Paper- XII DSE-F31 (Aquatic Biology and Endocrinology)	CO1:	To understand the aquatic biome.
	CO2:	Students know the biology of freshwater bodies.
	CO3:	Justify the endocrine disorders.
	CO4:	To understand anatomy and histology of glands.
	CO5:	Explain nature, role, regulation of endocrine glands.
Paper- XIII DSE-E30 (Developmental Biology Of Vertebrates)	CO 1:	Identify the developmental stages.
	CO2:	Describe the key events in early and systematic embryological development.
	CO3:	Explain the theories of preformation, and concepts like growth, differentiation and reproduction.
	CO 4:	Explain the principles and process of fertilization and cleavage.
	CO5:	Elucidation of early embryonic development of invertebrates and vertebrates.
Paper- XIV DSE-E32 (Immunology)	CO1:	Explain general information of immune system.
	CO2:	Understands cells and organs which involves in immune system.
	CO3:	Student should know the structure of antigen, antibody and its mechanism.
Paper- XV DSE-E31 (Applied Zoology - II)	CO1:	Understands processes of fisheries, sericulture, along with crop pest management techniques.
	CO2:	Students gain knowledge about various disease related vectors and their impact on human.
	CO3:	Understands concepts of apiculture, poultry, dairy along with tissue and cell culture techniques.
Paper- XVI DSE-F32 (Insect Vectors and Histology)	CO1:	Identify and to study different vectors.
	CO2:	Explain the various disease which occurs from vectors
	CO3:	Define the basic terms in histology.
	CO4:	List the various types of tissues.
	CO 5:	Identify the histological peculiarities in various organs.
	CO 6:	Explain the location, structure and functions of various organs.
B.Sc. III Practical Paper I, II, III, IV	CO1:	First-hand knowledge about identification of non-chordate and chordate specimens (fresh and preserved) along with larval forms and study of endoskeleton of vertebrates.



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	CO2:	Students are able to handle microscopes, and micrometers.
	CO3:	Identification of zooplanktons and phytoplanktons.
	CO4:	Gain skill about histological slide preparation, staining and mounting
	CO5:	Students gain skill about determination of pH and quantitative analysis of blood cells.
	CO6:	Students are able to parasites from rectal and fecal contents of animals.
	CO7:	Students are able to collect parasite and pest specimen

Program Name: - B. Sc Mathematics 2023-2024

Programme Outcome	
PO1	Scientific temper will be developed in Students
PO2	Students will acquire basic Practical skills like scilab,python software & Technical knowledge along with domain knowledge of different subjects in the science stream.
PO3	Students will become employable; they will be eligible for career opportunities in Industry, or will be able to opt for entrepreneurship.
PO4	Students will possess basic subject knowledge required for higher studies, professional and applied courses like Management Studies, Law etc.
PO5	Students will be aware of and able to develop solution-oriented approach towards various Social and Environmental issues
Programme Specific Outcome	
PSO1	A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology.
PSO2	A student should get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.
PSO3	Student is equipped with mathematical modeling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
PSO4	Student should be able to apply their skills and knowledge that is translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion
PSO5	Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.
Course Outcome	
B.Sc.-I Mathematics Sem-I Paper-I Calculus	By the end of course, the student will be able to: CO1. Evaluate the limit and examine the continuity of a function at a point. CO 2 Understand the consequences of mean value theorem for differential function CO 3. Apply Leibniz's theorem to obtain higher derivatives of product of two differentiable functions.



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B.Sc.-I Mathematics Sem-I Paper-II (Differential Equation)	CO 1. Understand types of differential equations. CO 2. Solve different types of ordinary differential equations. CO 3. Understand application of differential equations.
B.Sc.-I Mathematics Sem-II Paper-III Multivariable Calculus	CO 1.1. Learn conceptual variation while advancing from one variable to several variables in calculus. CO2. Set up and solve optimization problems involving several variables. CO3. Learn the concept of Jacobian of a transformation.
B.Sc.-I Mathematics Sem-II Paper-IV Basic Algebra	CO1. 1. Use fundamental concepts in Mathematics like sets, relation and functions. CO2. Use fundamental concepts in Number theory. CO3. Solve examples on congruence. CO4. Determine nth roots of unity. CO5. Understand various properties of hyperbolic functions.
B.Sc.-II Mathematics Sem-III Elements of Differential Equations	CO1: identify types of higher order ordinary differential equations. CO2: solve different types of higher order ordinary differential equations. CO3: understand geometrical interpretation of simultaneous and total differential equations.
B.Sc.-II Mathematics Sem-III Numerical Methods	CO1: find numerical solutions of algebraic, transcendental and system of linear equations. CO2: learn about various interpolating methods to find numerical solutions. CO3: find numerical solutions of integration and ODE by using various methods. CO4: apply various numerical methods in real life problems.
B.Sc.-II Mathematics Sem-IV Vector Calculus	CO1: understand and evaluate the concepts of gradient, divergence and curl of point functions in terms of cartesian co-ordinate system. CO2: understand and evaluate different types of line, surface & volume integrals and the two integral transformation theorems of Gauss and Stokes.
B.Sc.-II Mathematics Sem-IV Integral Calculus	CO1: understand special functions. CO 2: understand types of multiple integrals. CO 3: apply special functions in applications. CO 4: apply multiple integrals in real life problems.



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B.Sc.-III Mathematics Sem-V DSE – E9 Mathematical Analysis	CO1. The integration of bounded function on a closed and bounded interval CO2. Some of the families and properties of Riemann integrable functions CO3. The applications of the fundamental theorems of integration CO4. Extension of Riemann integral to the improper integrals when either the interval of integration is infinite or the integrand has infinite limits at a finite number of points on the interval of integration CO5. The expansion of functions in Fourier series and half range Fourier series
B.Sc.-III Mathematics Sem-V DSE – E10 Abstract Algebra	CO1. Basic concepts of group and rings with examples CO2. Identify whether the given set with the compositions form Ring, Integral domain or field. CO3. Understand the difference between the concepts Group and Ring. CO4. Apply fundamental theorem, Isomorphism theorems of groups to prove these theorems for Ring. CO5. Understand the concepts of polynomial rings, unique factorization domain.
B.Sc.-III Mathematics Sem-V DSE – E11 Optimization Techniques	CO1. provide student basic knowledge of a range of operation research models and techniques, which can be applied to a variety of industrial and real life applications. CO2. Formulate and apply suitable methods to solve problems. CO3. Identify and select procedures for various sequencing, assignment, transportation problems. CO4. Identify and select suitable methods for various games. CO5. To apply linear programming and find algebraic solution to games.
B.Sc.-III Mathematics Sem-V DSE – E12 Integral Transforms	CO1. Understand concept of Laplace Transform. CO2. Apply properties of Laplace Transform to solve differential equations. CO3. Understand relation between Laplace and Fourier Transform. CO4. Understand infinite and finite Fourier Transform. CO5. apply Fourier transform to solve real life problems
B.Sc.-III Mathematics Sem-VI DSE – F9 Metric Spaces	CO1. Acquire the knowledge of notion of metric space, open sets and closed sets. CO2. Demonstrate the properties of continuous functions on metric spaces, CO3. Apply the notion of metric space to continuous functions on metric spaces. CO4. Understand the basic concepts of connectedness, completeness and compactness of metric spaces, CO5. appreciate a process of abstraction of limits and continuity to metric spaces,
B.Sc.-III Mathematics Sem-VI DSE – F10 Linear Algebra	CO1. Understand notion of vector space, subspace, basis. CO2. Understand concept of linear transformation and its application to real life situation. CO3. Work out algebra of linear transformations. CO4. Appreciate connection between linear transformation and matrices. CO5. Work out eigen values, eigen vectors and its connection with real life situation.



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B.Sc.-III Mathematics Sem-VIDSE – F11 Complex Analysis	CO1. Learn basic concepts of functions of complex variable. CO2. Be introduced to concept of analytic functions. CO3. Learn concept of complex integration and basic results thereof. CO4. Be introduced to concept of sequence and series of complex variable. CO5. Learn to apply concept of residues to evaluate certain real integrals.
B.Sc.-III Mathematics Sem-VI DSE – F12 Discrete Mathematics	CO1. Use classical notions of logic: implications, equivalence, negation, proof by contradiction, proof by induction, and quantifiers. CO2. Apply notions in logic in other branches of Mathematics. CO3. Know elementary algorithms: searching algorithms, sorting, greedy algorithms, and their complexity. CO4. Apply concepts of graph and trees to tackle real situations. CO5. Appreciate applications of shortest path algorithms in computer science.



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Programme Name: B. Sc. (Course: Statistics): - 2023 – 24.

Programme Outcomes: After completion of the Programme, the students will be able to:

PO 1	Understand how to use statistical knowledge for analysis.
PO 2	Understand the concept of probability and the statistical distributions and applications in various fields.
PO 3	Understand the principles, concepts and recent developments in the Statistics.
PO 4	Understand how to design of experiment and survey sampling are used in real life.
PO 5	Learn the various concepts in Statistics.

Programme Specific Outcomes: After completion of the Programme, the students will be able to:

PSO 1	Be a Business analyst, Research Officer, Data Analyst or Data Investigator.
PSO 2	Work in government sector and do research on Consumer prices, Population trend, Economy etc.
PSO 3	Do research work in various fields.

Course Outcomes: After completion of the course, the student will be able to:

B.Sc. Part-I Sem.: I Paper-I (DESCRIPTIVE STATISTICS I)	CO.1 Analyze data and types of data, various data presenting methods and population, sample and various methods of sampling. CO.2 Compute various measures of central tendencies, dispersion, moments, skewness, kurtosis and to interpret them.
B.Sc. Part -I Sem.: I Paper-II (ELEMENTARY PROBABILITY THEORY)	CO.1 Distinguish between random and non-random experiments. CO.2 Find the probabilities of various events. CO.3 Understand concept of conditional probability and independence of events. CO.4 Understand the concept of univariate random variable and its probability distribution. CO.5 Understand the concept of mathematical expectation of univariate random variable.
B.Sc. Part-I Sem.: II Paper-III (DESCRIPTIVE STATISTICS – II)	CO.1 Compute correlation coefficient and interpret its value. CO.2 Compute regression coefficient, interpret its value and use in regression analysis. CO.3 Understand the concept of independence and association between two attributes. CO.4 Study the vital statistics and concepts related with mortality fertility and growth rates.
B.Sc. Part-I Sem.: II Paper IV (DISCRETE PROBABILITY DISTRIBUTIONS)	CO.1 Distinguish between discrete variables. CO.2 Know some standard discrete probability distributions with real life situations. CO.3 understand concept of bivariate distributions and computation of related probabilities and mathematical expectation of bivariate discrete random variable.



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B.Sc. Part -II Sem.: III Paper V (Probability Distributions-I)	CO.1 understand concept of discrete and continuous probability distributions with real life situations. CO.2 Find the various measures of random variable and probabilities using its probability distribution. CO.3 understand the concept of transformation of univariate and bivariate continuous random variable.
B.Sc. Part -II Sem.: III Paper-VI (Statistical Methods-I)	CO.1 understand the concept of Multiple Linear Regression, Multiple Correlations and Partial Correlation. CO.2 understand the need, construction and utility of various index numbers. CO.3 understand the concepts related to national and different methods of estimation of national income.
B.Sc. Part -II Sem.: IV Paper-VII (Probability Distributions-II)	CO.1 Know some standard continuous probability distributions with real life situations. CO.2 Learn and understand the relations among the different distributions. CO.3 understand the Chi-Square, t and F distributions with their applications and interrelations.
B.Sc. Part -II Sem.: IV Paper VIII (Statistical Methods-II)	CO.1 Know the concept and uses of time series. CO.2 understand meaning, purpose and uses of SQC, construction of various control charts for variables and attributes. CO.3 Apply small and large sample tests in various situations.



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Department of Chemistry:2023-24

Programme Outcome

B. Sc. in Chemistry Programme Students After successfully completing will have,

PO 1	To make students capable of studying Chemistry in academic and Industrial courses and to expose the students to different processes used in Industries and their applications.
PO 2	Understanding and learning of nanotechnology including classification, optical properties, synthesis routes, characterization techniques and applications of nanomaterials.
PO 3	To get the knowledge about Various spectroscopies such as UV, IR, NMR and mass spectroscopy with their working and applications.
PO 4	To develop the ability in Student that he will predict the structure of organic compound with the help of provided spectral data.
PO 5	To expose the students to various emerging new areas of Chemistry and apprise them with their prevalent in their future studies and their applications in various spheres of chemical sciences.
PO 6	To Understand the knowledge of various reagents and reactions used in organic synthesis.

Programme Specific Outcomes

After completing B.Sc. in Chemistry, Students will have

PS O 1	Chemistry graduates can work in the chemical industry either as chemists working in the plant as research chemist, production chemist, QA and QC officers etc.
PS O 2	Chemistry graduates can serve primary schools, high schools as teachers & after post-graduation can serve college or university as lecturers, professors etc.
PS O 3	Chemistry graduates & post graduates can opt for research work in various fields.
PS O 4	Chemistry graduates can opt for support services such as lab technicians, stockroom managers, safety officers etc.
PS O 5	Chemistry graduates can work as assistant for doctors, dentists, veterinarians etc.



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Course Outcomes

After successfully completing this B. Sc in Chemistry course, students will be able to

<p>B.Sc. Part - I Sem: I Inorganic Chemistry</p>	<p>CO.1 To understand Bohr's theory of hydrogen atom, quantum numbers, atomic structure, electronic configuration & various properties of elements CO.2 To understand formation of ionic bond., Born-Haber cycle for NaCl & its applications, Fajan's Rule and its applications CO.3 To get idea regarding chemical bond, bond angle, geometry of molecule, shape of molecule CO.4 To get detail knowledge about more broad concept MOT involving LCAO approximation.</p>
<p>B.Sc. Part -I Sem: I Paper I: Organic Chemistry</p>	<p>CO.1 Reading Skills: - To learn fundamentals of organic chemistry such as reactive intermediates, types of reagents and reaction mechanisms. CO.2 Writing Skills: - To learn basic concepts of stereochemistry and to write nomenclature of stereoisomers. CO.3 Listening Skills: - Ability to understand the criteria of aromaticity and properties of aromatic compounds. CO.4 To get knowledge of formation of cycloalkanes, cycloalkenes and alkenes and their characteristic reaction.</p>
<p>B.Sc. Part -I Sem: II Paper III (Physical Chemistry)</p>	<p>CO.1 To understand basic concepts of thermodynamics and thermo-chemistry, calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data . CO.2 To get idea about free energy change in a chemical reaction and relationships between K_p, K_c and K_x for reactions involving ideal gases. CO.3 To understand kinetic theory of gases, deviation of real gases from ideal behavior, causes of deviation and Van der Waals equation of state for real gases. CO.4 To understand basic concepts of chemical kinetics: rate of reaction, order of reaction, calculation of rate constant etc.</p>
<p>B.Sc. Part -I Sem: II Paper IV (Analytical Chemistry)</p>	<p>CO.1 To understand methods of analysis and terms: errors, types of errors, accuracy, Significant figures, mean, median, standard deviation. CO.2 To understand basic principle of chromatography and methodology, applications of Paper and Thin Layer chromatography. CO.3 To understand theory of titrimetric Analysis and theory of use of indicators. CO.4 To understand physical and chemical analysis of water learn basic programming constructs. CO.5 To get knowledge about types and qualities of fertilizers, their sampling and estimation of N,P,K.</p>



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B.Sc. Part -II Sem: III Paper V Organic Chemistry	<p>CO.1 To understand conformational isomerism, representation of conformers and conformational analysis of ethane and n-butane, cyclohexane and mono substituted cyclohexane.</p> <p>CO.2 To get idea about Stereo selective and stereospecific reactions.</p> <p>CO.3 To understand the concept of polynuclear hydrocarbons.</p> <p>CO.4 To should understand synthesis, properties and reactions of naphthalene, anthracene and phenanthrene.</p> <p>CO.5 To understand the concept of heterocyclic compounds and their classification.</p> <p>CO.6 understand synthesis, properties and reactions of Pyrrole, Pyridine, Quinoline and Indole.</p> <p>CO.7 Ability to give statement, general reaction, important features, mechanism and two Synthetic applications of concerned name reactions.</p> <p>CO.8 To get idea about concept of green chemistry, it's twelve principles and green approach towards chemical synthesis.</p>
B.Sc. Part -II Sem: III Paper VI Analytical Chemistry	<p>CO.1 To understand methods of analysis and terms: errors, types of errors, accuracy, Significant figures, mean, median, standard deviation.</p> <p>CO.2 To understand the basic theory behind gravimetry.</p> <p>CO.3 To learn theoretical principles involved in qualitative analysis and applications of solubility product, common ion effect, complex formation, application of oxidation and reduction in separation of cations and anions of different groups.</p> <p>CO.4 To understand theory behind conductometric titrations and detection of end point of titration.</p> <p>CO.5 To get knowledge about types and qualities of fertilizers, their sampling and estimation of N, P, K.</p>
B.Sc. Part -II Sem: IV Paper VII Physical Chemistry	<p>CO1. To understand the terms Specific, equivalent and molar conductance, equivalent conductance and Debye-Huckel theory of conductance, Hittorf's rule, Kohlrausch's law and its applications.</p> <p>CO.2 Ability to solve numerical problems based on Kohlrausch's law, Hittorf's rule etc.</p> <p>CO.3 To understand the concept of entropy, Physical significance of entropy, entropy changes in different transitions.</p> <p>CO.4 Ability to solve numerical problems based on entropy.</p> <p>CO.5 To understand Theories of reaction rate and methods to determine order of reaction & ability to solve numerical problems based on order of reaction.</p> <p>CO.6 To understand the terms surface index, viscosity, refractive index and able to solve numerical problems based on viscosity, refractive index.</p>
B.Sc. Part -II Sem: IV Paper VIII Inorganic Chemistry	<p>CO.1 Student can the understand properties and separation of lanthanides.</p> <p>CO.2 To understand formation of co-ordinate covalent bond, Werner's theory, IUPAC nomenclature of coordination compound and crystal field theory (CFT).</p> <p>CO.3 Student should get idea about ligands, chelating agent, chelation, metal chelate and metal complex.</p> <p>CO.4 To understand types, Characteristics and mechanism of catalytic reactions and also Industrial application of catalysts</p> <p>CO.5 To understand definition and properties of Non-aqueous solvents.</p>



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B.Sc. Part -III Sem: V Paper XI Physical Chemistry	CO.1 To understand basic concept of Quantum Mechanics CO.2 To enable to student to able to know types of electromagnetic radiations, rotational and vibrational spectra of diatomic molecules. CO.3 To understand Raman spectra and able to solve Numerical problems. CO.4 Learning and understanding photochemical laws, reactions and various photochemical phenomena & difference between thermal and photochemical processes. CO.5 Learning the various types of solutions, relations vapour pressure, temperature relations CO.6 understanding the knowledge of emf measurements, types of electrodes, different types of cells, various applications of EMF measurements.
B.Sc. Part -III Sem: V Paper IX Inorganic Chemistry	CO.1 To study of role of acids and bases in Chemistry & the study of non –aqueous solvents. CO.2 To learn all chemical properties of solutes and from the research point of view. CO.3 To understand geometry, stability and nature of bonding between metal ion and ligand in complexes. CO.4 To understand synthesis and the applications of the semiconductors and Superconductors in electrical and electronic devices CO.5 To understand types, mechanism and applications of catalyst in industrial fields.
B.Sc. Part -III Sem: V Paper X Organic Chemistry	CO.1 Understanding of energy associated with electromagnetic radiation and its use in analytical technique. CO.2 Student should Knowledge of chromophore, auxochrome and calculation of λ_{max} . CO. Develop the knowledge of vibrational transitions, regions of IR spectrum, functional group recognition. marketing regarding modern competitive world. CO.4 Understanding of magnetic-non- magnetic nuclei, shielding-deshielding, chemical shift, splitting pattern. CO.5 To get Knowledge of molecular ion, fragmentation pattern and different types of ions produced. CO.6 Student will predict the structure of organic compound with the help of provided spectral data.
B.Sc. Part -III Sem: V Paper XII Industrial	CO.1 Learning and understanding the techniques of gravimetric analysis CO.2 To understand Knowledge of instrumental analysis of alkali and alkaline earth elements.



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Chemistry	<p>CO.3 Understanding, working and applications of optical methods as an analytical tool.</p> <p>CO.4 Understanding theory and applications of potentiometric titrations.</p> <p>CO.5 Understanding the basics of ion exchange and column adsorption chromatography, Quality control practices in analytical industries.</p>
B.Sc. Part -III Sem: VI Paper XV Physical Chemistry	<p>CO.1 Learning and understanding quantum Chemistry, Heisenberg's uncertainty principle, concept of energy operators.</p> <p>CO.2 learning of Schrodinger wave equation. Physical interpretation of the ψ and ψ^2.</p> <p>CO.3 understanding of different spectroscopy, E.M. spectrum, Energy level diagram, Microwave ,vibrational spectra of diatomic molecules, S.H.M., Raman spectra: Concept of polarizability.</p>
B.Sc. Part -III Sem: VI Paper XIII Inorganic Chemistry	<p>CO.1 Students can understand the thermodynamic and kinetic aspects of metal complexes.</p> <p>CO.2 To understand the nuclear reactions is highlighted. Role of radio isotopes in medicinal, industrial area.</p> <p>CO.3 To understand characteristics, properties and separation of lanthanides and Actinides.</p> <p>CO.3 Student can enable to write Nomenclature of trans uranic elements.</p> <p>CO.4 Understanding of techniques which involve in ore dressing and extraction of cast iron from its ore.</p> <p>CO.5 To get knowledge about trace elements in biological Process & role of various metals and non-metals .</p>
B.Sc. Part -III Sem: VI Paper XIV Organic Chemistry	<p>CO.1 Student can under-stood Knowledge of reagents used in organic transformations and various reactions used in organic synthesis.</p> <p>CO.2 Student will learn addition reaction across $>C=C<$ bond & across $-C\equiv C-$ bond w.r.t. hydrohalogenation, hydration, hydroxylation, ozonolysis and addition of halogen, halogen acid, water, etc..</p> <p>CO.3 To get Knowledge of terpenoids and alkaloids w.r.t. occurrence, isolation, characteristics & classification.</p> <p>CO.4 To understand the analytical and synthetic evidences of Citral and Nicotine.</p> <p>CO.5 Understanding classification of drugs, Qualities of ideal drug.</p> <p>CO.6 Understanding of synthesis and uses of some representative drugs and Drug action of sulphur drugs.</p>



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B.Sc. Part -III
Sem: VI
Paper XVI
Analytical
Chemistry

- CO1. Learning and understanding the techniques of gravimetric analysis.
- CO.2 To get knowledge of instrumental analysis of alkali and alkaline earth elements.
- CO.3 Understanding, working and applications of optical methods as an analytical tool.
- CO.3 Understanding theory and applications of potentiometric titrations.
- CO.4 Understanding the basics of Chromatography.
- CO.5 Understanding of types of ion exchange and column adsorption chromatography.




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