

2.6.1: **Program specific outcomes and course outcomes for all programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

Department of Marathi

Programme Outcomes

- PO1 : Helps to gain and Enhance the Knowledge of Humanity.
- PO2 : Understands the journey from savage to civilization.
- PO3 : To understand how cultural, historical, geographical, political, linguistic, and environmental forces shape the world.
- PO4 : Demonstrate intercultural awareness and competence.
- PO5 : Analyze and criticize the reflection of complex problems incorporating multiple perspectives and innovative thinking.
- PO6 : Demonstrate the capacity to argue in innovative directions.
- PO7 : Practice creative thinking and expression.
- PO8 : Demonstrate detailed knowledge in one or more disciplines and integrate knowledge and perspectives across disciplinary boundaries.
- PO9: Develop a detailed understanding of the current state of knowledge in one or more disciplines.
- PO10: Promote active citizenship and community engagement.

Programme Specific Outcomes.

- PSO1: To understand the nature, scope, values and basic concepts in Marathi.
- PSO2: Analyze the relationship among various genres of literature like poetry, Biography, autobiography, novel, drama, short stories, travel writing, one act play etc.
- PSO3: Creates awareness among the students about socio-economic, political, cultural situations through the history of Marathi literature.
- PSO4: Promotes the values through the literature of Mukundraj, Dnyaneshwar, Dnyandev, Tukaram, Ramdas etc.
- PSO5: Understand the spiritual and religious aspects from the writers like the Saint Janabai, Chokhamela, Karmmela, Gora kumbhar, Visoba khechar, Savta mali etc.
- PSO6: Develop an interest in Reading-writing skills, critical approaches, research ability.
- PSO7: Determine and analyze various literary types like, Dalit, Rural, feminist, tribal, folk literature etc.
- PSO8: Understand the literary process through literary criticism.
- PSO9: Understand the literary thoughts of great writers such as Sigmund Fried, Karl yung, F. C. Priscot, S. T. Coleridge, T. S. Eliot etc.
- PSO10: Develop Humanitarian, universal, social commitment approaches towards society.

Course Outcomes

- CO1: Students will develop their overall mental, social, and innovative growth.
- CO2: Motivates students to develop reading and writing abilities.

- CO3: To get knowledge of the great tradition and culture of Marathi literature.
- CO4: Students will appreciate the impact of social situations on writer's writings.
- CO5: To inculcate the social commitment among students.
- CO6: Students will motivate themselves through literature in their problem solving and will interpret the world.
- CO7: Helps to create creative writers and innovative scholars.
- CO8: Supports to create formal and informal writings like Essay, letter, report, news, advertisements etc.
- CO9: Promotes to create and develop reading culture.
- CO10: Helps to develop Ellocution, Deabate, speeches etc.

Department of Hindi

Programme Outcomes

- PO1: Helps to gain and Enhance the Knowledge of Humanity.
- PO2: Understands the journey from savage to civilization.
- PO3: Understand how cultural, historical, geographical, political, linguistic, and environmental forces shape the world.
- PO4 : Demonstrate intercultural awareness and competence.
- PO5 : Analyze and criticize the reflection of complex problems incorporating Multiple perspectives and innovative thinking.
- PO6 : Demonstrate the capacity to argue in innovative directions.
- PO7 : Practice creative thinking and expression.
- PO8 : Demonstrate detailed knowledge in one or more disciplines and integrate knowledge and perspectives across disciplinary boundaries.
- PO9 : Develop a detailed understanding of the current state of knowledge in one or more disciplines.
- PO10: Promote active citizenship and community engagement.

Programme Specific Outcomes

- PSO1: Understand the nature, scope and basic concepts in Hindi.
- PSO2: Analyze the relationship among various genres of literature like poetry, autobiographical novel, drama, story one act play etc.
- PSO3: Creates an awareness among the students about economical, socio-political and communal issues.
- PSO4: Understand how applied Hindi is important in various sectors of society like banks, govt. and semi govt. offices etc.
- PSO5: Analyze various theories like modernism, feminism, realism, Romantism etc.
- PSO6: Students will be benefitted from saint poetry. Through saints, their philosophies can be understood from poetry.
- PSO7: Understand the process of literature in Hindi.
- PSO8: Develop the creativity and mental set up.

Course Outcomes

- CO1: Students will develop their attitude towards humanity.
- CO2: It helps to build the capacity to argue in innovative directions.
- CO3: To preserve and promote India's linguistic interest related to Hindi language and install human values inherent in its literature.
- CO4: To foster friendship and understanding between and across Hindi and non-Hindi speaking people through the learning of Hindi.
- CO5: To provide civic and cultural education and to generate interest in the Hindi younger generation
- CO6: Students will get the proper linguistic knowledge to communicate with people around the globe.
- CO7: It makes students able to express themselves in Hindi.
- CO8: Students get acquainted with the Hindi media like cinema, news, advertisements, radio anchoring etc.
- CO9: Helps to build language ability among students.
- CO10: Students will motivate themselves through literature in their problem solving and will interpret the world.

Department of English

Programme Outcomes

- PO1 : Helps to gain and Enhance the Knowledge of Humanity.
- PO2 : Understands the journey from savage to civilization.
- PO3 : Understand how cultural, historical, geographical, political, linguistic, and environmental forces shape the world.
- PO4 : Demonstrate intercultural awareness and competence.
- PO5 : Analyze and criticize the reflection of complex problems incorporating Multiple perspectives and innovative thinking.
- PO6 : Demonstrate the capacity to argue in innovative directions.
- PO7 : Practice creative thinking and expression.
- PO8 : Demonstrate detailed knowledge in one or more disciplines and integrate knowledge and perspectives across disciplinary boundaries.
- PO9 : Develop a detailed understanding of the current state of knowledge in one or more disciplines.
- PO10: Promote active citizenship and community engagement.

Programme Specific Outcomes

- PSO1: To help students towards better pronunciation.
- PSO2: To enable students to acquire the structure of English.
- PSO3: To introduce students to appreciate various forms of literature such as poetry, novels, drama, short stories, biography & autobiography.
- PSO4: To discover many meanings in poetic texts like lyric, sonnet, elegy, ballad, ode etc.

- PSO5: To familiarize the students with the literary terms like, metaphor, allegory, myth, bathos, irony, poetic license, caricature, burlesque etc.
- PSO6: Introduce students to understand literary criticism and critics like, Plato, Aristotle, Wordsworth, Coleridge, T. S. Eliot and many more.
- PSO7: Introduce students to American Literature, Indian, British, African-literature etc.
- PSO8: To make students aware about recent developments in literature to modernism, Marxism, feminism, structuralism, psycho analytic, myth criticism etc.
- PSO9: To make students aware about various literary ages such as Chaucerian, Elizabethan, Renaissance, Restoration, Neo classic, Romantic, Victorian, Modern and Post modern ages.

Course Outcomes

- CO1: Understand and appreciate the complexities of human communication.
- CO2: Inculcate reading and writing abilities among students.
- CO3: To strengthen students ability in listening, speaking, reading and writing both at practical and theoretical level.
- CO4: Students will be competent enough in world language & will be able to communicate with the world.
- CO5: Supports to create formal and informal writings like Essay, letter, report, news advertisements etc.
- CO6: Students get acquainted with society and various cultures.
- CO7: Students will encourage and develop themselves through literature in their problem solving.
- CO8: Student will develop their humanitarian and liberal approach towards world.
- CO9: students will make themselves able in precision and appropriate use of language.
- CO10: Students will become competent in argumentative skills like Elocution, Debate, speeches etc.

Department of Pali

Programme Outcomes

- PO1: Helps students to become socio oriented.
- PO2: Create social awareness among students.
- PO3: Analyze and discuss social problems.
- PO4: Helps to understand social, political, economical and cultural aspects.
- PO5: Creates research interest in social issues.
- PO6: Helps to take family, social, economical responsibilities.
- PO7: Creates Nationality, National integrity, and to become responsible citizen.

Programme Specific Outcomes

- PSO1: Understand the nature, scope and basic concepts in Pali.
- PSO2: Analyze the relationship between spirituality and reality.
- PSO3: Understand the importance of tripitica in life.

- PSO4: Learn the stories like, Bodhisatva's Jatak Katha, Dhammapad, Theory Gathas, Therogatha and three Jewels.
- PSO5: Learn the life stories of thero and theory.
- PSO6: Study the contribution of great thinkers Like Dr. B. R. Ambedkar, Dr. Bhadant Anand Kausalyayan, Jagdish Kashyap, Dharmanand Kosambi.
- PSO7: Learn the importance of meditation, Sheel, Karuna, Pradnya.
- PSO8: Learn the ways to overcome from sadness.

Course Outcomes

- CO1: Students will gain the fundamental knowledge of truth.
- CO2: Ability to understand the search of mind.
- CO3: Students will develop the enlightening skills for better life.
- CO4: It will help to tune the spiritual mind of students.
- CO5: Students will learn to develop their vision towards life and society which regulate their behavior in society.
- CO6: To understand the Indian culture and History.
- CO7: It will help to develop personality of students.

Department of Sociology

Programme Outcomes

- PO1: The Bachelor of Arts lays an excellent foundation for many professions which are accessed via graduate course work study.
- PO2: Bachelor of Arts graduates are also able to go into non-Arts related professions via graduate course work study including information technology, urban planning, Marketing & Finance.
- PO3: Many students choose a bachelor of Arts in order to pursue a particular subject that they are passionate about History, Economics, Sociology etc.
- PO4: The most important PO's include communication skills, critical reading and thinking skills, analytical skills, research skills etc.

Programme Specific Outcomes

- PSO1: Study the approaches, principles, concepts, methods and history of Sociology.
- PSO2: Enable to describe the significance of social theory to society.
- PSO3: Creates an awareness among the students about poverty, child labour, domestic violence and dowry etc.
- PSO4: Study the social thinkers like Aagust Compt, Max Weber, Karl Marx, Talcott Parson, Lewis Coser etc.
- PSO5: Understand the basic concepts like society, social system, caste system, class system, family, marriage system, religiosity etc.
- PSO6: Determine and analyze various approaches such as capitalist, mixed and socialist.
- PSO7: Develop an interest in carry out project integrating sociological theory and methods.

PSO8: Makes able to substantively discuss the core theoretical perspectives of the society.

Course Outcomes

CO1: To understand historical, Socio-Economic and intellectual forces of the rise of sociological theories.

CO2: To show sensitivity about social problems of contemporary India and implement measures on it.

CO3: To know about the origin and development of the sociology as a discipline and development in India in particular.

CO4: To study different sections of society and the institutions and other structural elements.

CO5: To explore segments of Indian Society which are India's geographical ethic and religions destructiveness.

CO6: To identify and analyze some of emerging social problems from sociological perspective.

CO7: To elaborate such changes and to know causes and impact of social disorganization.

CO8: Students will become aware about overall society and social change.

Department of Psychology

Programme Outcomes

PO1: To develop the Communication skills .

PO2: To understand Self Awareness.

PO3: To develop the value education.

PO4: Get the Knowledge of the world and Indian culture through Psychological approaches .

PO5: To develop human values and overall personality.

PO6: To develop the social and community values.

PO7: To identify psychological research work, complex issues in society.

PO8: To gain research based knowledge and research methods, data collection, analysis, processing, interpretation data, and conclusion.

Program specific outcomes:

PSO1: To understand the nature and basic concepts of Psychology.

PSO2: To understand the behavior and relationship between psychology and Psycho-Social culture.

PSO3: To understand the symptoms of some Psychological disorders like, anxiety, multiple personality. Schizophrenia, mood disorders etc .

PSO4: Understand the Counseling processes and counseling skills.

PSO5: Understand the organizational behaviour in society and our working place.

PSO6: To develop personality, attitudes, achievement, communication and learning etc.

- PSO7: Understand the various theoretical and methodological approaches in abnormal psychology and counseling.
- PSO8: To develop research analysis about qualitative and quantitative data.
- PSO9: To understand the information oriented first interview, relationship Oriented first interview.
- PSO10: To client and counselor knowledge and apply in counseling Processes.

Course Outcomes

- CO1: Students will be able to understand various mental aspects and various fields of psychology.
- CO2: To understand psychological research and natural resource management.
- CO3: Students will be able to use the scientific method including critical thinking, sampling, hypothesis formulation and testing, and controlled experimentation to assess psychological problems.
- CO4: To understand research objectives, methodology, results, interpretations, and conclusions in oral and written formats.
- CO5: To analyze the psychological aspects like climate change, psycho-physical imbalance.
- CO6: To understand personality problems, stress problems, family & society Problems.

Department of Political Science

Programme Outcomes

- PO1: Helps students to become socio oriented.
- PO2: Create social awareness among students.
- PO3: Analyze and discuss social problems.
- PO4: Helps to understand social, political, economical and cultural aspects.
- PO5: Creates research interest in social issues.
- PO6: Helps to take family, social, economical responsibilities.
- PO7: Creates Nationality, National integrity, and to become responsible citizen.

Programme specific Outcomes

- PSO1: Understand the concept of state and its functions.
- PSO2: Understand the functions and responsibilities of government.
- PSO3: Understand the government work policies and decision making.
- PSO4: Understand the relation between national and international politics.
- PSO5: Understand the various political theories at national and international level.
- PSO6: Analyze the basic concepts in political science.
- PSO7: Makes aware about various political systems like dictatorship, democracy, Monarchy, etc.
- PSO8: Becomes aware about local, state, and central government.
- PSO9: Learns the thoughts of political thinkers like Plato, Aristotle, Machiavelli, Hobs, John Lock etc.
- PSO10: Understand various isms such as liberalism, Communism, Imperialism, colonialism, fascism, Marxism etc.

Course Outcomes

- CO1: Develop the good leadership and citizenship.
- CO2: Determine the overall political aspects.
- CO3: Helps to create critical enquiry among students.
- CO4: Becomes able to analyze national and international politics.
- CO5: Familiarity with different approaches to the study of politics and an ability to apply these to contemporary collective and political problems, and political behavior.
- CO6: An understanding of how political institutions emerge, how they operate, how they interact with their external environment, and how they shape individual and collective behavior.
- CO7: knowledge of basic factual information about politics within an area of specialization including but not limited to American politics, political behavior, comparative politics, international relations, or political theory and methodology.

Department of Music

Programme Outcomes

- PO1: Helps students to become socio oriented.
- PO2: Create social awareness among students.
- PO3: Analyze and discuss social problems.
- PO4: Helps to understand social, political, economical and cultural aspects.
- PO5: Creates research interest in social issues.
- PO6: Helps to take family, social, economical responsibilities.
- PO7: Creates Nationality, National integrity, and to become responsible citizen.

Programme Specific Outcomes

- PSO1: Understand the nature, scope and basic concepts in music.
- PSO2: Analyze the relationship among various ragas in music.
- PSO3: Understand the various types of Indian classical music like khyal, Bandish, drupad, sargam, Tarana, Dhamar, and lakshan geet etc.
- PSO4: Learn the ragas like bhoop, yaman, kaafi, khamaj, bageshri, malkauns, bhimpalas, johnpuri.
- PSO5: Learn the various biographies of great classical singers like, Tansen, Tyagraj, Gopalnayak, Vtankat Makhi.
- PSO6: Study the contribution of great musicians music like, Bharatmuni, Sarang Dev and Sadang-Adarang.
- PSO7: Learn the various Taals like Teen taal, Ek Taal, Dadra, Zhaptaal, Kervaa, Chautaal etc.

Course Outcomes

- CO1: Students will gain the fundamental knowledge of theories in music through practical.
- CO2: Ability to understand the music history and perform various musical instruments.

- CO3: Students will develop the skills for performance of musical works that exhibit effective artistic expressions.
- CO4: It will help to tune the students and ultimately wiTH the society.
- CO5: Students will learn to regulate their behavior through various musical concepts.
- CO6: It will help to develop overall personality of the students.

Department of Home Science

Programme Outcomes

- PO1: Helps students to become socio oriented.
- PO2: Create social awareness among students.
- PO3: Analyze and discuss social problems.
- PO4: Helps to understand social, political, economical and cultural aspects.
- PO5: Creates research interest in social issues.
- PO6: Helps to take family, social, economical responsibilities.
- PO7: Creates Nationality, National integrity, and to become responsible citizen.

Programme specific outcomes

- PSO1: Use of human development and improve the quality of human life.
- PSO2: Understand how to perform good ideas to the main ingredients of dish effectively into a magical mediterranean meal.
- PSO3: To help the basic concept of diet, nutrition and health.
- PSO4: To perform the behavioral change, development of human resources, environmental improvement.
- PSO5: Production of food preservation, bakery, child development, fashion designing and communication skills.
- PSO6: To study entrepreneurship, family life education, personality development, food preservation, fashion designing etc.
- PSO7: To learn laboratory skills including public health, safety, the cultural, social, and environmental considerations.
- PSO8: To develop ability to perform art and design, interior fecoration fashion designer, self employment, banking, family relationship, counselor, innovative flower arrangements, salad decorations.

Course Outcomes

- CO1: Students will get the knowledge of home management effectively.
- CO2: Students will develop an awareness about counseling.
- CO3: Helps to know essentials of interior decoration.
- CO4: Students will analyze and determine the structural planning of the house.
- CO5: Students will understand the role of dietician.

- CO6: Learn the nature of developmental pattern in adulthood and old age.
- CO7: Helps to develop the qualities of leadership in the students.
- CO8: Helps to improve the nutritional quality of food and nutrition
- CO9: Students will get the knowledge of textile and clothing.

Department of History

Programme Outcomes

- PO1: The Bachelor of Arts lays an excellent foundation for many professions which are accessed via graduate course work study.
- PO2: Many courses do not require particular discipline studies including law, Primary teaching, Arts Management, Information Management/Librarianship, Journalism, International development etc.
- PO3: Bachelor of Arts graduates are also able to go into non-Arts related professions via graduate course work study including information technology, urban planning, Marketing & Finance.
- PO4: Many students choose a bachelor of Arts in order to pursue a particular subject that they are passionate about such as History, Economics, Sociology etc.
- PO5: Many arts graduates go on to specialize through post graduate study or they can also choose careers in Research.
- PO6: The most important PO's is that an arts degree will give you include communication skills, critical reading and thinking skills, analytical skills, research skills etc.

Programme Specific Outcomes

- PSO1: Understand the nature, scope, values and basic concepts in History.
- PSO2: Analyze the relationship among History, Archeology, Museology Tourism etc.
- PSO3: Creates an awareness among the students about Historical monuments Such as caves, forts, temples etc.
- PSO4: Promotes the social values through the history of social workers like Dr. B. R. Ambedkar, Mahatma Phule, Lokmanya Tilak etc.
- PSO5: Understand the thoughts of various thinkers like Karl Marx, Ranke, D.D. Kosambi, Romila Thaper, Ranjit Guha etc.
- PSO6: Understand the social, political, economical, religious, and cultural life of Ancient, Mediaeval, and Modern Indian History.
- PSO7: Understand the process of Histrography.
- PSO8: Develop an interest in regional History.
- PSO9: Understand the trends in History like Imperialism, Orientalism, feminism, colonialism and Subaltern etc.
- PSO10: Understand the World History.

Course Outcomes

- CO1: Students will develop their overall mental, social, and innovative growth.
- CO2: To increase research approach among students through project work.

- CO3: To understand basic theoretical approaches and develop their historical thinking while knowing theoretical contribution of prominent historians of earlier time.
- CO4: Students will produce well researched written work that engages with both primary sources and secondary literature.
- CO5: To get knowledge of the great tradition and culture of Indian History.
- CO6: Motivates students to develop reading and understand the historical aspects.

Department of Geography

Program outcomes:

- PO1: To develop the skills like draw the diagram, map reading.
- PO2: To understand an environmental Awareness.
- PO3: To develop the value education.
- PO4: Get the Knowledge of the world and Indian culture.
- PO5: To develop the human values and overall personality.
- PO6: To develop the social and community values.
- PO7: To identify research work and analyze geographical and complex issues in society.
- PO8: To gain research based knowledge and research methods, data collection, analysis, processing, interpretation data, and conclusion.

Program specific outcomes:

- PSO1: To understand the nature and basic concepts of geography.
- PSO2: Understand the behavior and relationship between geography and culture.
- PSO3: Understand and appreciate the role that geography can play in community engagement.
- PSO4: Understand the physical geographic processes, the global distribution of landforms and ecosystems, and the role of the physical environment on human populations.
- PSO5: Understand the behavior of environmental, geographical issues and analysis of the causes of human and natural disaster.
- PSO6: Understand the physical environment, human societies, local and global economic systems which are integral to the principles of sustainable development.
- PSO7: Understand the various theoretical and methodological approaches in both physical and human geography.
- PSO8: To develop research questions about qualitative and quantitative data to answer questions.
- PSO9: Understand general demographic principles and their patterns at regional and global scales.
- PSO10: To synthesize geographical knowledge and apply innovative research strategies to solve problems in resource conservation, environmental change, and sustainable development within the community, region, and world.

Course Outcomes

- CO1: Students will be able to use accepted field, laboratory, geospatial, and statistical techniques to quantify the quantity, characteristics, and history of physical phenomena.
- CO2: To understand geographic research and natural resources management.
- CO3: Students will be able to use the scientific method including critical thinking, sampling, hypothesis formulation and testing, and controlled experimentation to assess environmental problems.
- CO4: To understand research objectives, methodology, results, interpretations, and conclusions in oral and written formats.
- CO5: To analyze the geographical aspects like climate change, causes of natural disaster, environmental imbalance.
- CO6: To understand cropping pattern, agricultural development, and industrial development.

Department of Economics

Programme Outcomes

- PO1: Helps students to become socio oriented.
- PO2: Create social awareness among students.
- PO3: Analyze and discuss social problems.
- PO4: Helps to understand social, political, economical and cultural aspects.
- PO5: Creates research interest in social issues.
- PO6: Helps to take family, social, economical responsibilities.
- PO7: Creates Nationality, National integrity, and to become responsible citizen.

Programme Specific Outcomes

- PSO1: Understand the nature, scope and basic concepts of Economics.
- PSO2: Analyze the relationship among micro, macro, and welfare Economics.
- PSO3: Understand the behavior of rural and urban economy.
- PSO4: Learn the concepts like national and international trades.
- PSO5: Determine various economic concepts like GDP, budget, structure of taxes, HDI, inclusive growth and sustainable development.
- PSO6: Observe economic policies since 1950.

Course Outcomes

- CO1: Classify the micro, macro, and welfare Economics.
- CO2: Identify the characteristics of rural and urban economy.
- CO3: Analyze the economy of agricultural and non agricultural sectors.
- CO4: Describe national and international trends of trades.
- CO5: Study the banking and financial structures.
- CO6: Observe the industrial and environmental Economics.

Department of Drama

Programme Outcomes

- PO1: Helps students to become socio oriented.
- PO2: Create social awareness among students.
- PO3: analyze and discuss social problems.
- PO4: Helps to understand social, political and cultural aspects.
- PO5: Creates research interest in social issues.
- PO6: Helps to take family, social, economical responsibilities.
- PO7: Creates Nationality, National integrity, and to become responsible citizen.

Programme Specific Outcomes

- PSO1: Understand the nature, scope and basic concepts in Dramatics.
- PSO2: Analyze the relationship among various nine rasas of Bharatmuni.
- PSO3: Understand the various concepts in dramatics like observation, imagination and concentration.
- PSO4: Learn various techniques like light, set designing, make-up, costume designing, and background music
- PSO5: Learn the cultural of various great masters in dramatics like, Stanislavski, Mayorhold, Burtlot Brecht, Dilip Prabhavalkar, Shriram Lagu, Vijaya Mehata etc.
- PSO6: Study the various aspects of Dramatists like, farce, melodrama, absurd, comedy, tragedy etc.
- PSO7: Study various dramas like Ekach Pyala, Raygadala Jevha Jaag Yete, Hyvadan, Raja Odiopus, and Mahanirvan.
- PSO8: Develop the skills like Dance, Drama, and Music.

Course Outcomes

- CO1: Students will gain the fundamental knowledge of theatre.
- CO2: Ability to understand the history of drama and perform various types of dramas.
- CO3: Students will develop the performing skills of drama which works that exhibit effective artistic expressions and creativity.
- CO4: It will help to enlighten the society trough street plays and folk arts.
- CO5: Students will learn various dramatical concepts and will improve themselves.
- CO6: Students improve their cultural skills through improvisation.

Department of Commerce

Program outcomes

- PO1: To study the major theories and models in key areas of Management.
- PO2: To use basic mathematical and statistical tools of analysis.
- PO3: To demonstrate the knowledge of microeconomics theory as it relates to markets, firms, government policy, and resource allocation.
- PO4: Apply basic mathematical and statistical skills necessary for analysis of a range of problems in economics, actuarial studies, accounting, marketing, management.
- PO5: To know about basic entrepreneurship skills and knowledge of the subject.

Program specific outcomes

PSO1: Be proficient in the use of appropriate information technologies.

PSO2: Understand the nature and basic concepts of management and its applications in business.

PSO3: Analyze microeconomics and macroeconomics policies including production, rent, labour, capital, land, entrepreneur and international business.

PSO4: To Understand the behaviour of financial and money markets and perform cost benefit analysis for making investment decision.

PSO5: To know more about Contract act, Sale of goods act, Company act, Partnership act.

PSO6: To cultivate new trends in banking, insurance and finance.

PSO7: To reveal various innovation in entrepreneurship and its application in current scenario.

PSO8: To demonstrate the practical knowledge of accountancy, taxation and marketing.

Course outcomes

CO1: To provide students with the knowledge, tools of analysis, managerial skills to understand and participate the modern business and economics world.

CO2: To prepare students to achieve the success in their professional careers.

CO3: The course designed by our university focuses both on academic subjects like statistics or economics as well as practical business subjects like accountancy, law, management, marketing, finance, entrepreneurship etc.

CO5: Provides a platform for experimental learning and groom students towards industry specific curriculum with focused approach on specific areas which are crucial in the management of companies.

Department of Management Science

(B.B.A. & B.C.A.)

Program outcomes

PO1: To provide adequate understanding about management education among the students.

PO2: To prepare students to exploit opportunities being newly created in the management.

PO3: To train the students in communication skills effectively.

PO4: To develop appropriate skills in the students so as to make them competent and provide themselves self employment.

PO5: To inculcate entrepreneurial skills.

PO6: To communicate business information professionally.

PO7: To foster thinking minds that are sensitive to societal need and issues thus making them good human being and responsible member of the society.

Program specific outcomes

- PSO1: Students will be able to apply knowledge of accounting, finance and economic concepts and practices in new small venture.
- PSO2: Students will be able to understand the practical aspect of industry with the help of different seasonal activities like interviews, group discussion etc.
- PSO3: Gains the essential qualities for team work, leadership and negotiation.
- PSO4: Develops the ability to organize and present the business related information through communication skills.
- PSO5: Helps to identify business related problems such as financial, economical, human resource etc.
- PSO6: Analyses the ethical and social justice, demonstration of market and policy outcomes.
- PSO7: To identify the relationship between important variable and to understand the different between correlation and cause & effect apply algebraic, graphical and statistical tools to analyse problems and issues in business and public policy.

Course outcomes

- CO1: It provides the students a wide range of managerial skills with leadership qualities.
- CO2: Empowers students with entrepreneurial and decision making skills by providing an excellent academic environment inculcating values of discipline, dignity, dedication and devotion to higher causes along with sportsmanship to make them better citizens.
- CO3: Students will become effective communicators.
- CO4: It will demonstrate critical thinking skills.
- CO5: Students will get knowledge about ethical factors in the business environment.
- CO6: The graduates will understand the global business environment.
- CO7: Demonstrates analytical skills and technological expertise which will develop and present business information.
- CO8: Students will get an insight into the management techniques prevailing in the corporate world.
- CO9: It exposes students with various subjects: finance, management, marketing.

Department of Biotechnology

Program Outcomes

- PO1: Proficiency in basic laboratory skills including aseptic techniques, operating instruments like PCR, Microscope etc.
- PO2: Give chance to perform molecular and biochemical techniques used in biotechnology.
- PO3: Give applications of biotechnological techniques for welfare of humans.

Program specific Outcomes (B.Sc.)

- PSO1: Use of biological processes, organisms, or systems to manufacture product intended to improve the quality of human life.
- PSO2: To performs procedures as per laboratory standards in the areas of Biochemistry, Microbiology, Genetic Engineering, Tissue Culture technology, Immunology, Fermentation technology, etc.
- PSO3: To understand the applications of biotechnology in medicine, environment, food processing, agriculture, marine biotechnology etc.
- PSO4: To carry out quantitative and qualitative tests and analysis.

Program specific Outcomes (M.Sc.)

- PSO1: Helps to understand the basic concepts in genetic engineering including methods like transformation, screening, DNA isolation etc.
- PSO2: To perform tasks in the areas including SDS-PAGE, Agarose gel electrophoresis, microbial techniques etc.
- PSO3: Production of ethanol as a biofuel.
- PSO4: Antisense RNA technology to know the function of genes.

Course Outcomes

Plant Tissue Culture:

- CO1: It employs different techniques for different purposes.
- CO2: Most important use of plant tissue culture is micro propagation of commercially important plant species.
- CO3: Cell suspension cultures on large scale can be used for micro propagation of plants by somatic embryogenesis or callus cultures.
- CO4: Cell suspension cultures on large scale are getting important in research for the production of medicinally important secondary metabolites and pigments from plants.
- CO5: Plant tissue culture provides a basic tool for genetic engineering of plants various genetically modified crops have been introduced in the market in recently.
- CO6: Plant tissue culture is successfully used to reuse and propagate endangered species of plants throughout the world.

Developmental Biology:

- CO1: Study of developmental biology provides insight into the process of evolution from unicellular to multicellular
- CO2: It provides information about phylogenetic relationship in diverse group of animal.
- CO3: The technique like in vitro fertilization has been successfully employed to overcome sterility related problems in humans, whereas the embryo transfer technique provides a useful tool for the study of clinical biology.

- CO4: Study of developmental biology is useful to know many of important biological processes like organogenesis, metamorphogenesis and aging, biology of cancer, apoptosis and death.
- CO5: Study of plant developmental biology provides important information about various aspects of plant development.

Molecular Biology:

- CO1: To study the process of replication, transcription, translation.
- CO2: To study the replication process in vitro (PCR Technique).
- CO3: To study the differential gene expression a time.
- CO4: To analyzed the DNA and RNA by southern blotting and northern blotting.
- CO5: To synthesize recombinant human vaccine and proteins.
- CO6: Molecular farming: to produce large quantities antibodies and vaccines.

Microbiology Department

Programme Outcomes

- PO1: Study of micro-organisms like bacteria, fungi, algae and viruses.
- PO2: It helps in the treatment and prevention of the diseases which is caused by bacteria, virus, protozoa and fungi.
- PO3: Useful in aseptic techniques.
- PO4: Isolation of microorganisms and their maintenance in artificial environment by using pure culture techniques such as spread plate techniques, pour plate, streak plate techniques etc.
- PO5: Identification and characterization of microorganisms from different environments.
- PO6: Give information about production and extraction of useful products from microorganisms such as antibiotics, enzymes.

Course outcomes

Genetic Engineering

- CO1: Used for the direct manipulation of an organism's genome to produce improved or novel organism.
- CO2: Genetic engineering techniques includes gene isolation, PCR, creating GMOs
- CO3: Important application of RDT is to alter the genotype of crop plants to make them more productive, nutritious rich in proteins, disease resistant. E.g. Bt cotton, golden rice.
- CO4: Production of various recombinant proteins using microorganisms. E.g. insulin, somatostatin, erythromycin.

Immunology

- CO1: Used to study immunological responses against various diseases.

- CO2: Identification of antigen, antibody, blood group of individual.
- CO3: Various techniques in immunology are important in clinical diagnosis. For e.g. ELISA, Widal etc.
- CO4: Immunological typing of humans is indispensable during organ transplantation.
- CO5: By using cross antigen presentation pathway creates vaccines against cancer.

Cell biology

- CO1: To study the membrane structure, cell organelles, cytoskeleton elements etc.
- CO2: Techniques like FRAP (Fluorescence Recovery after Photobleaching) use to determine kinetics of diffusion through tissue or cells.
- CO3: Identification of different phases of cell cycle (mitosis, meiosis)
- CO4: To understand movement of ions across cell membranes by studying various membrane transport systems.
- CO5: Understand the transportation of proteins to appropriate destinations in the cell or outside the cell via protein targeting.

Bioinformatics

- CO1: By using various tools of bioinformatics, analyze and compare gene, protein sequences within the less time.
- CO2: Detection of genetic disorders by using different software such as OMIM (Online Mendelian Inheritance Pattern in Man).
- CO3: Important for the data collection and sharing with different countries.
- CO4: Identification and prediction of 3D structures of proteins.

Inheritance Biology

- CO1: To study inheritance pattern.
- CO2: Useful to know the position of genes on chromosome by gene mapping.
- CO3: Use to raise the homozygosity by using test cross.
- CO4: For detection of genetic disorders by genetic counseling.
- CO5: To study inheritance pattern for variations
- CO6: Mapping of genes from centromere.
- CO7: Provides access to genetic information stored in chromosomes and opened the way for a new development.

Bioinstrumentation

- CO1: Study the information of principles of biological instruments.
- CO2: Study the Measurements, control and automation of processes.
- CO3: Study of construction and working of instruments.
- CO4: Study the separation and purification of various components by instruments.

Biochemistry

- CO1: Study of chemical process within and relating to living organisms.
- CO2: Study of enzyme activity and kinetics.

- CO3: Describe the structure and classification of biomolecules
- CO4: Study Extraction and purification of enzymes.
- CO5: Qualitative and quantitative estimation of biomolecules.

Fermentation technology

- CO1: This technology used to convert biomass into products with higher added value.
- CO2: Use for the production of most novel products by microbial fermentation.
- CO3: Use for the formulation of fermentation media.
- CO4: Study of various parts of fermentor.
- CO5: Scale up of fermentation equipments
- CO6: Extraction and purification of various useful products.

Program specific outcomes:

B.Sc.

Program specific outcomes for B.Sc. are to understand:

- PSO1: Genetic microbiology.
- PSO2: Environmental microbiology.
- PSO3: Applied & clinical microbiology.
- PSO4: Industrial microbiology.
- PSO5: Genetics.

M.Sc.

Program specific outcomes for M.Sc. are to understand, analyse & determine:

- PSO1: Dairy microbiology.
- PSO2: Enzymology.
- PSO3: Microbial physiology.
- PSO4: Environmental microbial technology.
- PSO5: Fermentation technology.
- PSO6: Pharmaceutical procedures.
- PSO7: Bioinformatics.
- PSO8: Biostatistics.

Department of botany

Program Outcome:

- PO1: B.Sc. students are interested in natural science, life science, computer science, social science, material science, mathematics and various other fields.
- PO2: B.Sc. degree has various careers.
- PO3: It laying the ground work for continued higher educations or a carrier in science or related field.

Program specific outcomes:

- PSO1: Understand and apply the basic principles and rules of botanical nomenclature, and use of taxonomic literature.

- PSO2: Be familiar with methods of systematics, both traditional and modern.
- PSO3: Apply for working vocabulary used in description of plant structures.
- PSO4: Understand the history of classification, and recognize various systems of classifying angiosperms.
- PSO5: Use dichotomous keys for the identification of Pacific NW plant species.
- PSO6: Recognize representatives of local flora; applying floral formulas and descriptions of major plant families and representative species found here in Central Oregon.
- PSO7: Apply proper herbarium methods - collecting, mounting, and keeping records.
- PSO8: Analyze the scientific evidence for the explanations of the origin of life.
- PSO9: Apply for understanding of the cell cycle to cellular abnormalities such as cancer.
- PSO10: Explain the mechanisms for new genetic information.
- PSO11: Define characteristics, importance and applications of plants in agriculture, horticulture and environmental ecology.
- PSO12: Demonstrate knowledge of taxonomy and classification to identify unknown plants to genus or species level.
- PSO13: Recognize and identify relevant structures for vegetative growth and reproduction for the purposes of classification, identification and industrial applications.

Course Outcomes

- CO1: It introduces you to the classification and identification of lower and higher plants.
- CO2: The aim of the course is to provide depth of knowledge in plant identification for future employment in agricultural, horticultural and environmental areas.
- CO3: Student will be able to examine algal and plant structure and identify algae and plants using appropriate techniques, e.g. light microscopy, dissection, keys.
- CO4: Student study the various non-flowering plants (algae, mosses, liverworts, ferns, conifers) and the flowering plants (monocotyledons and dicotyledons).
- CO5: Student study the structure and function related to ecology and evolution.
- CO6: Learn about life cycles, structure, function and reasons for importance of these very different plants.
- CO7: Student also learns how to identify the organisms using the various keys and pictorial guides available.
- CO9: Using Mendelian principles, predict genetic inheritance patterns.
- CO10: Describe gene expression and regulation.

Department of Chemistry

Program outcomes: (B.Sc.)

- PO1: Understand the Basic Concept of Chemistry, nomenclature, Isomers, Projection formulae & importance of chemistry, solution properties role of essential metal cations in biochemical process
- PO2: Perform the practical's in laboratory as per procedure in hand book of chemistry, practical preparation of different concentrations of solution make observation,

calculation, graph plotation & in some cases identification of given compounds by chemical methods.

PO3: Analysis and identification of inorganic acidic and basic radicals and rare earth metals.

PO4: Understanding role of chemistry in everyday of life.

Programme outcomes: (M.Sc.)

PO1: Understand basic concept of chemistry, name reaction & mechanism, reagents, oxidizing & reducing agents, heterocyclic compounds & their role in biological application, retro synthesis, natural products in living organism their synthesis and application.

PO2: Analysis of organic compounds by chemical method in laboratory.

PO3: Perform practical's for preparation of organic compound & derivatives.

PO4: Doing research as Project work on schemes of different research papers.

Programme specific outcomes: (B.Sc.)

PSO1: Classification of organic compound in three dimensional way.

PSO2: Identification of acidic, basic radicals.

PSO3: Classification as organic or inorganic compounds.

PSO4: Nomenclature of organic and inorganic compounds.

PSO5: Identification of acidic, basic & neutral compounds.

PSO6: Determination of hardness of water and total dissolve solids.

PSO7: Determination of physical properties of matter such as viscosity, surface tension, magnetic susceptibility, boiling point, melting point, optical density.

Programme specific outcomes: (M.Sc.)

PSO1: Separation and analysis of organic mixture by chemical methods.

PSO2: Identification of acidic and basic radicals.

PSO3: Preparation of organic compound and confirmation of product.

PSO4: Analysis of graphical spectra to elucidate structure.

PSO5: Representation of research work/project performed in laboratory.

PSO6: Describe organic reaction with Proper mechanism.

PSO7: Identify role of catalyst in organic reaction.

PSO8: Analyze all physical properties of matter such as viscosity, surface tension, optical activity, refractive index.

PSO9: Describe spectral information from ^1H , ^{13}C , Mass, FT-IR of any organic compounds.

PSO10: Use of catalyst on industrial level.

Course Outcomes

Inorganic chemistry:

CO1: Helps to understand the all chemical and physical properties of metal and non metal.

- CO2: Classification of organic and inorganic acid and base.
- CO3: Separation of metal and non metal.
- CO4: Role of metal ion in biological system.
- CO5: Use of complex catalyst of different metal.

Organic chemistry:

- CO1: Give information about different organic compound
- CO2: Use of different solvent.
- CO3: Use of different spectroscopic technique for compound analysis.
- CO4: Different types of separation techniques for solid and liquid compound like distillation, reflux, TLC Crystallization.
- CO5: Use of solvent and organic compound on industrial level.
- CO6: Use of organic compound in medicine and pharmaceutical level.
- CO7: Use of Organic compound in bioorganic chemistry as enzyme catalyst.

Physical chemistry:

- CO1: Give information about physical properties of compound.
- CO2: Use of different instruments in practical.
- CO3: Use of non instrumental method for analysis.
- CO4: Information of rate reaction.
- CO5: Nuclear chemistry.

Analytical chemistry:

- CO1: Give different methods of analysis of compound.
- CO2: Give different separation techniques like chromatography.
- CO3: Give method for analysis of day today compound.
- CO4: Analysis of compound by instrumentation.

Department of zoology

Programme outcomes:

- PO1: To understand the property and basic concept of cell biology.
- PO2: Understand property of all vertebrate and invertebrate animals.
- PO3: To get higher education.
- PO4: To understand application of zoology in different field.

Programme specific outcomes:

- PSO1: To understand the nature and basic concept of genetics, cell biology biochemistry, taxonomy ecology etc.
- PSO2: Analyze the relationship among animals, plants, and microbes.
- PSO3: Perform practical in the area of biochemistry, bioinformatics, ecology, and taxanomy.
- PSO4: Understand the application of biological science in apiculture, aquaculture, agriculture and medicine.

Course outcomes:**Vertebrate zoology:**

- CO1: Classify the Agatha characters, affinities of cyclostomata.
- CO2: Classify the phylum reptilian with taxonomic keys.
- CO3: Describe phylum aves and general character.
- CO4: Identify the given places with respect to economic importance.

Invertebrate zoology:

- CO1: Classify the phylum porifera with taxonomic keys.
- CO2: Identify the characters of phylum annelida with its classification.
- CO3: Give the life history of fasciola and classification.
- CO4: Give the classification and characteristic of phylum arthropoda.
- CO5: Give the classification and characteristic of phyla's, echinodermata, and hemicordata Phylum's.

Cell Biology:

- CO1: To study the type of cell, cell structure, cell organelles, cytoskeleton of cell.
- CO2: Initial structure and function of various cell organelles.
- CO3: Hereditary materials & their structure.

Genetics:

- CO1: Understand gene type of genetical material.
- CO2: Study of protein synthesis.
- CO3: Study of human chromosomes, sex determination, sex linked inheritance and genetic disorder.
- CO4: Study of genetic engineering and application.

Physiology:

- CO1: Histological study of organ and organ system.
- CO2: Understanding Digestive system.
- CO3: Study of blood, its composition and its coagulation.
- CO4: Study of excretory system.
- CO5: Study of reproduction and reproductive cycle.
- CO6: Study of muscle contraction.

Ecology:

- CO1: Study of biotic and a biotic environmental, factors.
- CO2: Ecosystem and their types.
- CO3: Concept of population.

Biochemistry and Endocrinology:

- CO1: Describe the structure and classification of biomolecule.
- CO2: Classification and enzyme action.
- CO3: Vitamins their source and energy.

- CO4: Give classification of carbohydrates, protein, lipid & their structure.
- CO5: Study of endocrine gland morphology, histological structure, hormones and their function.

Entomology:

- CO1: Study of taxonomy of insect.
- CO2: Study of various system of grasshopper.
- CO3: Insect culture like apiculture, sericulture and laculture.
- CO4: Study of house hold insects like bed berg, mosquito.

Department of Physics

Program Outcomes

- PO1: Physics knowledge: Physics is concerned with every aspect of our universe, and Basic Physics is explore of 4 main areas: Motion, Waves & Sound, Electricity & Magnetism, and Light.
- PO2: Problem analysis: Identify, formulate, research literature, and analyze complex physics problems reaching substantiated conclusions using fundamental physical principles. Physics tells more about a physical situation than thought knew.
- PO3: Design/development of solutions: Nuclear branch design and develop the processes, instruments, and systems used to get benefits from nuclear energy and radiation. So, we can find industrial and medical uses for radioactive materials.
- PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern physics and to research and to develop tools, processes, machines and equipments.
- PO6: The physicist and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional practice.
- PO7: Environment and sustainability: Understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the subject practice.
- PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10: Communication: Communicate effectively on complex physics activities with the physics community and with society at large, such as, being able to comprehend

and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the physics and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes

PSO1: Understand the basic concept of various physics branches such as Classical mechanics, Quantum Mechanics, Nuclear Physics, Statistical Mechanics and Electrodynamics.

PSO2: Analyses the relationships between different instruments used for same measurements.

PSO3: Perform experiment according to laboratory standard in the area of Classical Mechanics, Quantum Mechanics, Nuclear Physics and Electronics.

PSO4: Understand the application of Nuclear Physics, Spectroscopy and Electronics in field of Medical, Industry, Agriculture and daily life.

Course outcomes:

Course outcomes for B.Sc. students are to understand, study, analyse & determine:

CO1: Nuclear physics.

CO2: Mathematical & statistical physics.

CO3: Laws of physics.

CO4: Devices of physics.

CO5: Solid state physics.

CO6: Principles of physics.

CO7: Mechanism in physics.

CO8: Properties of physics.

Department Of Electronics

Program outcomes:

PO1: **Knowledge of Digital Electronics:**

By Studying the paper of digital electronics students get basic knowledge different number system which is applicable them in different software programming languages. This knowledge is useful them in different software industries.

PO2: **Problem Analysis:**

In B.Sc. Electronics students get knowledge about to solve programs and calculate current, voltage, resistance, power for different basic kits, apparatus of electronics. They can easily test the basic problems of any appliances.

PO3: Design / Developments solutions:

Students are eligible to develop assemble level language programs and able to develop small projects on them like people counter ,automatic door lock system, height & chest measurement, fastest finger first like this.

PO4: Conduct Investigations of Complex Problems:

By studying a paper of programmable logic controllers, they are eligible to investigate & solve the different basic problems of CNC machines & able to develop programs for different task.

PO5: Modern Tool Usage:

Electronics students handle different modern apparatus of electronics like CRO, frequency generator, multi meters, power supplies. This knowledge is useful for them to work in production industries of electrical appliances.

Program Specific Outcomes:

PSOs for B.Sc. students are to understand , study, analyse & determine:

PSO1: Digital electronics.

PSO2: Amplifiers.

PSO3: Microprocessors.

PSO4: Microcontrollers.

Course outcomes:

CO1: Description of basic theory of programmable logic controller. Study of each block of internal architecture of internal architecture of 8051 microcontroller. Study of pin diagram, general and special pin functions.

CO2: Classification of instruction set of microcontroller and programmable logic controller. Difference between aritechture of Harvard and van-newsmen.

CO3: Basic programs of microcontroller and programmable logic controller. Like NO & NC switch, find odd even no, arrange given number in ascending & descending order.

CO4: Advanced programmable of microcontroller, logic controller like LED on, off, draw square, triangular& staircase ware, traffic light.

CO5: Interfacing of peripheral to the microcontroller like memory, seven segment interfacing, LM-35, temperature sensor interfacing.

Department of computer science

Programme specific outcomes: (M.Sc.)

PSO1: As a Computer Science student always has a wide range of option in career.

PSO2: A computer science student has lot of exposure to programming and logic building, so field like software development, software testing, application developer are open for them.

PSO3: If a student focuses on hardware and microprocessors in particular, they make great advances in technology and robotics

PSO4: Fields like Artificial Intelligence, Database management, Network Administrator, Software Engineer, Game Designer, data miners, data storage centre managers are some of the few options which are open for them.

PSO5: Student can opt for developing mobile applications, teaching, developing software for government and other MNC.s.

PSO6: Cyber security and network security are the latest booming field at the edge for students who are good in computers.

PSO7: If someone wants to pursue higher degrees in computer he/she may opt for: M. Phil., Ph.D. in Computer Science, UGC, NET/SET and junior research fellowship or lectureships, MBA, MCA, Law, MPSC/UPSC etc.

Programme specific outcomes: (B.Sc.)

PSO1: After completing B.Sc. computer science, student may take admission to master degree programs like M.Sc. CS, M.Sc. IT, MCA or MBA in information technology and others.

PSO2: MBA in Information technology gives a student higher perspective in Management at MNC.s.

PSO3: Obviously students have a open market to jump in with Industries like Infosys, TCS, Wipro and Cognizant are few of them.

PSO4: Students are eligible for competitive exam.

PSO5: Even a student of computer science has a option of joining banking sectors.

PSO6: B.Sc. Computer Science students have chances to work in following areas: Networking, Web designing and development, Software development and testing, Multimedia and designing.

BCA (Management stream):

PSO1: Students are given knowledge on topics like Programming languages, hardware and software, computer networks, World Wide Web, Database Management, Logic Multimedia etc.

PSO2: Students need to cover 3 subjects of Computer science and 3 subjects of Management(commerce), hence students gets both computer and management knowledge and both sectors are open for them. Students from Arts, commerce and MCVC can get admission to BCA and gain computer science and management degree.

PSO3: After BCA, the traditional PG courses available are MCA (Master of Computer Application) and MBA (Master in business management).

PSO4: Numbers of certification program are also available for BCA Students.

B.Sc. (Optional-Computer Science):

PSO1: Computer science is one of the optional subject which can be chosen with other subjects.

PSO2: After graduation students are eligible for higher education.

PSO3: Due to selection of 03 optionals for B.Sc. degree the student obtains knowledge of two other subjects in addition to computer science.

PSO4: Students may opt for competitive exams like UPSC, MPSC or he may start his own entrepreneur business implementing collective knowledge or, they may join in company those works on computer field like. TCS, INFOSYS, IBM, CTC and others.

Programme outcomes:

PO1: Give application of Computer in all the field.

PO2: Helps to understand basic concept related to computer.

PO3: Use in all field of arts, commerce & science.

PO4: Use to solve mathematical problems.

PO5: Use to develop software programme.

PO6: Students are eligible for higher education

PO7: Students can acquire the different computer languages.

PO8: Obtain idea about web designing and multimedia designing.

Course outcomes:

CO1: After completing master degree in computer science a student should be competent to work in any challenging environment, as they have mastered various aspects of Computer Science.

CO2: M.Sc. student has a hand on programming and logic building. It helps for software development. Software testing & application.

CO3: He can choose advanced technologies like robotics, artificial intelligence, database management, network administrator, software engineer, game designer, data miners, data storage centre managers, security experts for network and cyber.

CO4: After completing B.Sc. computer science a student becomes competent for handling responsibilities of networking, web designing and development, software development and testing, multimedia and designing.

CO5: After completing B.C.A. student has career in different fields of management.

CO6: Students have knowledge of programming languages, hardware and software, computer networks, world wide web, database management, logic multimedia etc.

CO7: Student can also opt for M.Com. (Management commerce). MCA (Master of Computer Application) and MBA (Master in business administration).

CO8: After completing B.Sc. with computer science as optional, student can pursue his career in any field of his interest.

Department of Mathematics

Program Outcomes

PO1: **Scientific knowledge:** Student will be able to apply the knowledge of Mathematics, science to the solution of complex scientific problems.

PO2: **Problem analysis:** Identify, formulate and analyze scientific problems reaching substantiated conclusions using first principles of mathematics and sciences.

- PO3: **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
- PO4: **Environment and Sustainability:** understand the impact of the solutions in societal and environmental contexts and demonstrate the knowledge of need for sustainable development.
- PO5: **Communication:** Communicate effectively on complex scientific activities with the scientific community and with society at large. Some of them are, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

Program Specific Outcomes

- PSO1: The student will be able to know the different branches of science and mathematics.
- PSO2: Provide effective and efficient real time solutions using acquired knowledge in various domains.
- PSO3: Ability to apply the acquired scientific and mathematical knowledge for the advancement of society and self.
- PSO4: Ability to implement the learned principles of science and mathematics to analyze, evaluate and create more advanced systems or processes.

Course outcomes:

- CO1: The student will be able to apply the knowledge of mathematics to formulate and solve the scientific and engineering problems using ordinary and partial differential equations.
- CO2: The student will be able to analyze the different scientific and engineering functions using the knowledge of calculus and analysis.
- CO3: The student will be able to apply the different numerical techniques to solve scientific and engineering problems for which closed form solutions are not possible.
- CO4: The student will be able to understand the cryptography with the knowledge of number theory and abstract algebra.
- CO5: Vector calculus will help to understand the electromagnetic engineering.
- CO6: The knowledge of integral transforms will help to analyze the feedback control systems of electronics engineering.