

Mechanism of Communication for Course Outcomes (COs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs)

The college has defined clear Course Outcomes (COs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs). These outcomes have been duly recommended and approved by the Internal Quality Assurance Cell. A well-structured mechanism is in place to effectively communicate these outcomes to both teachers and students.

- 1. Website Display:** Soft copies of syllabi, Course Outcomes (COs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs) are readily accessible on the college's official website. This ensures that this information is available to a wide audience and can be accessed at any time.
- 2. Departmental Availability:** Hard copies of these outcomes are also available within the respective departments for easy reference by both teachers and students. This makes it convenient for individuals who prefer or require physical documents.
- 3. Faculty Meetings:** The importance and significance of Course Outcomes (COs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs) have been effectively communicated to the teaching staff. This is achieved through various meetings held within the college.
- 4. Mentorship:** Mentor periods are utilized to ensure that students understand the relevance of Course Outcomes (COs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs) in their educational journey.

This structured approach to communication ensures that both faculty and students are well-informed about the educational objectives of the college and understand how these outcomes relate to their courses and programs. It promotes transparency and aligns the entire college community with the institution's educational goals.

Program Outcome for UG Programs

Bachelor of Arts

Upon successful completion of our Bachelor of Arts program, graduates will possess the following skills and attributes:

PO1. Graduates will excel in critical analysis, problem-solving, and decision-making, allowing them to tackle complex challenges effectively.

PO2. Students will demonstrate strong written and verbal communication skills, enabling them to articulate their thoughts, ideas, and solutions persuasively.

PO3. Graduates will exhibit a deep understanding of diverse cultures, societies, and global perspectives, promoting cultural sensitivity and adaptability in a globalized world.

PO4. Students will acquire advanced research skills, including data collection, analysis, and interpretation, empowering them to contribute valuable insights in their chosen fields.

PO5. Graduates will have a strong sense of ethics, social responsibility, and civic engagement, making them active and responsible citizens who contribute positively to society.

PO6. Graduates will be well-prepared to adapt to rapidly changing environments and commit to continuous personal and professional growth through lifelong learning.

PO7. Students will explore and develop their creative abilities, fostering innovation and imaginative thinking.

PO8. Graduates will acquire a range of practical skills and knowledge that make them well-prepared for a variety of careers. These skills may include project management, teamwork, leadership, and the ability to navigate evolving job markets.

By achieving these outcomes, our BA program equips graduates with the knowledge, skills, and values necessary for both successful careers and meaningful contributions to their communities and the broader society.

Program Specific Outcomes for Bachelor of Arts

PSO For English

PSO1. English compulsory course in B.A. offers students an opportunity to study influential writings of renowned authors of English literature.

PSO2. It provides a critical insight into all areas of human experience and equips students with knowledge of English as a world language.

PSO3. It provides them knowledge essential for a wide range of careers and for advanced studies.

PSO4. It develops ability to read text closely and to recognize and appreciate the importance of major literary genres.

PSO5. It makes them write clearly, effectively and imaginatively and instils in them a passion for literature and language.

PSO6. It also teaches them correct articulation of words and recognition of speech sounds.

PSO7. It grounds them into nuances of basic grammar and art of composition.

PSO For Political Science

PSO 1. Understand the philosophy of Indian Constitution.

PSO 2. To identify the causes impact of British colonial rule and Indian National movement.

PSO 3. Understanding the constitutional institution and their functioning. Indian institution such as – parliament, state assemblies, local government etc.

PSO 4. To appreciate the fundamental rights and duties and directive principles of the state policy.

PSO 5. To understand the nature, methods and significance of political thought.

PSO 6. To acquire knowledge about modern political thinkers and their view on statecraft.

PSO 7. To inculcate the spirit of ahimsa, satyagraha, through Gandhi ideology.

PSO 8. To understand the evolution, scope and significance of international relations and the rise of sovereign state system.

PSO9. To criticize the various ideologies which lead to the destructive world.

PSO10. To acquaint with the international organizations and their modules nations.

PSO11. To critically analyse the idea's bilateral relations with major power and neighbouring countries.

PSO12. To know about the issues of environment, feminism and world place.

PSO For Economics

Students with B.A. in Economics will be able: -

PSO1. To demonstrate the ability to employ the 'economic way of thinking'.

PSO2. To understand core micro-economic terms and theories, concepts and theories.

PSO3. To apply supply and demand analysis to examine the impact of Government regulation.

PSO4. To apply the concepts and behaviour of demand and supply in different market situations both from a viewpoint of consumers and Producers.

PSO5. To relate the basic economic theory and principles to current Microeconomic issues.

PSO6. To understand the core macro-economic concepts such as Gross Domestic Product, Unemployment, Aggregate demand, Aggregate Supply, Inflation etc.

PSO7. To understand the economic functioning and conditions of our country in the context of past, present and future.

PSO8. To understand how Fiscal and Monetary policies can be used to promote equity.

PSO9. To present an economic argument in quantitative terms.

PSO10. To understand the broader social consequences of economic decision making.

PSO11. To understand how different market structure, firm technologies and economic and social policies affect market equilibrium and welfare outcomes.

PSO For History

PSO1. Students will be able to identify and describe the contours and stakes of conversations among historians within defined historiographical fields

PSO2. Students will learn to apply historical methods to evaluate critically the record of the past and how historians and others have interpreted it.

PSO3. Students will acquire basic historical research skills, including the effective use of libraries, archives, and databases.

PSO4. Students will learn to organize and express their thoughts clearly and coherently both in writing and orally.

PSO5. Writing and Intellectual Integration: Students should demonstrate their mastery of the knowledge and skills involved in historical practice by conceptualizing and executing a significant piece of original research.

PSO For Sociology

Students with Sociology in B.A. will be able.

PSO1.Think Critically about the causes and consequences of social inequality.

PSO2.Design and evaluate empirical sociological research.

PSO3.Explain and apply the major theoretical perspectives in sociology.

PSO4.Communicate orally and in writing about sociological concepts.

PSO5.Use their sociological education outside of the undergraduate classroom, particularly in their careers or further education.

PSO6. It prepares and guides the students for Social Services.

PSO For Geography

PSO1. Students will acquire an understanding of the relationship between geography and culture.

PSO2. Students will develop the ethical aptitude which is necessary to hold leadership positions in industry, government and professional organizations.

PSO3. Students will be able to generate maps and present information from a spatial perspective.

PSO4. Students will have a general understanding of Physical geographic processes and the global distribution of land forms.

PSO5. Students will also have an understanding of the role of the physical environment on human populations.

PSO6. Students will have a general understanding of cultural geographic process.

PSO For Public Administration

After the completion of the course student will:

PSO1. Prepare and inculcate the requisite skills and aptitude imperative for to be a good public administrator.

PSO2. Promote and prepare students for greater commitment to higher ethical standards of public administration.

PSO3. Students will be able to analyse, synthesize, think critically, solve problems and make decisions.

PSO4. Students will be able to communicate and interact productively with a diverse and changing workforce and citizenry.

PSO5. Students will be able to lead and manage in public governance.

PSO For Mathematics

PSO1. Students will understand the foundations of Mathematics.

PSO2. Students will be able to perform basic computations in higher Mathematics.

PSO3. Students will recognize problem solving techniques appropriate to a given situation, including the development of mathematical models, the identification of assumptions, the understanding of the limitations of models, and the use of both graphical and numerical methods.

PSO4. Students will be able to read, write and understand basic level proofs.

PSO5. Students will develop and maintain problem-solving skills.

PSO6. Students will use mathematical ideas to model real-world problems.

PSO7. Students will be able to communicate mathematical ideas with others.

PSO8. Students will have experience using technology to address mathematical ideas.

PSO9. Students will be able to apply mathematical strategies in applied contexts.

PSO10. Students will be able to use technology, where appropriate, to assist in problem techniques and classroom strategies to positively influence student learning.

PSO11. Students will translate problems from across disciplines into mathematical models, allowing for the leveraging of sophisticated mathematical theory.

PSO12. Students will effectively communicate complex mathematical ideas and carefully reasoned arguments both orally and in writing.

PSO13. Students will learn to read and speak the language of Mathematics.

PSO14. Students will demonstrate the ability to think critically, research and reason.

PSO15. Students will engage in activity directly benefiting the broader community.

PSO16. Students will demonstrate an understanding of the common body of knowledge in Mathematics.

PSO17. Students will demonstrate the ability to analyse and grow appropriate statistical Mathematics.

PSO18. Students will demonstrate the ability to effectively utilize a variety of teaching techniques and classroom strategies to positively influence student learning.

PSO For Music (Vocal)

PSO1. Music appeals to the senses of emotions and the intellect at the same time, demanding a complex personal response.

PSO2. Music education assists students in responding sensitively to their environment and in developing an awareness of their cultural background.

PSO3. A major goal of music is to awaken and develop aesthetic sensitivity in students through direct contact with the elements of music rhythm, melody, harmony, form and the expressive control of music dynamics, timbre and tempo.

PSO4. It is a way to understand our cultural heritage and to participate in the making of both our present and future culture.

PSO5. Musical skills are also helpful for students to become a good citizen who contributes to society in a positive way.

PSO For Music (Instrumental)

PSO1. Graduates will demonstrate a high level of proficiency in playing their chosen musical instrument, encompassing techniques such as finger dexterity, bowing (for string instruments), and rhythm precision.

PSO2. Graduates will exhibit comprehensive knowledge of diverse musical genres and a wide range of repertoire on their instrument, including classical, folk, and contemporary music.

PSO3. Graduates will be capable of interpreting musical compositions with sensitivity and conveying emotional depth and artistic expression through their instrument.

PSO4. Graduates will possess strong sight-reading skills and the ability to read and interpret musical notation, including sheet music, chord charts, and lead sheets.

PSO5. Graduates will be adept at collaborating with other musicians, both within and outside their instrument group, and will contribute effectively to ensemble performances.

PSO6. Graduates will demonstrate knowledge of instrument maintenance, including tuning, string replacement and general care to ensure the longevity and optimal performance of their instrument.

PSO7. Graduates will be capable of composing and arranging music for their instrument or ensemble, demonstrating creativity and originality in musical composition.

PSO8. Graduates will have the confidence and competence to perform solo recitals and participate in public performances, showcasing their instrumental skills and musicality.

PSO9. Graduates interested in teaching will be equipped with the pedagogical skills to impart their knowledge to students effectively, fostering the next generation of instrumentalists.

PSO For Sanskrit

PSO1. Graduates will attain a high level of proficiency in reading, writing, speaking, and comprehending Sanskrit, including the ability to read and interpret classical texts.

PSO2. Graduates will demonstrate the ability to comprehend, interpret, and analyse classical Sanskrit texts, including but not limited to Vedic, philosophical, literary, and historical works.

PSO3. Students will develop advanced translation skills, enabling them to accurately translate Sanskrit texts into other languages and vice versa.

PSO4. Graduates will have a deep understanding of the cultural, philosophical, and historical contexts of Sanskrit literature and its significance in Indian culture and heritage.

PSO5. Students will be proficient in communicating effectively in Sanskrit, both in written and spoken forms, for academic, cultural, and practical purposes.

PSO6. Graduates will be prepared to teach Sanskrit as a second language, possessing the knowledge and skills required for effective language instruction.

PSO7. Students will be capable of conducting scholarly research in Sanskrit studies, including critical analysis of Sanskrit texts, linguistic studies, and historical research.

PSO8. Graduates will understand the importance of Sanskrit language preservation and actively contribute to its promotion and conservation.

PSO9. Graduates will apply their Sanskrit language skills and cultural understanding in interdisciplinary contexts, such as philosophy, religion, linguistics, archaeology, and history.

PSO For Hindi

PSO1. Graduates will achieve a high level of proficiency in reading, writing, speaking, and comprehending the Hindi language.

PSO2. Graduates will be able to analyse and interpret classical and contemporary Hindi literature, demonstrating an understanding of literary devices, themes, and cultural contexts.

PSO3. Students will develop translation skills, enabling them to accurately translate written and spoken content between Hindi and other languages.

PSO4. Graduates will gain cultural competence by understanding the rich cultural heritage and diversity of Hindi-speaking regions, including customs, traditions, and social norms.

PSO5. Graduates will be capable of effective oral and written communication in Hindi, both in formal and informal contexts.

PSO6. Students will be able to critically evaluate and appreciate Hindi-language media, formal and informal contexts.

PSO7. Graduates will be prepared to teach Hindi as a second language, including lesson formal and informal contexts.

PSO8. Students will acquire research skills to investigate linguistic, literary, or cultural aspects of Hindi language and literature.

PSO9. Graduates will understand the importance of language preservation and contribute to the promotion and preservation of the Hindi language.

PSO10. Graduates will apply their Hindi language skills in interdisciplinary contexts, such as the promotion and preservation of the Hindi language.

PSO For Home Science

PSO1. Graduates will be proficient in assessing dietary needs, designing balanced meal plans, and promoting healthy eating habits.

PSO2. Students will understand the dynamics of family systems and be equipped to provide support and counselling to individuals and families facing challenges.

PSO3. Graduates will have the skills to efficiently manage household resources, including budgeting, scheduling, and maintaining a safe and organized home environment.

PSO4. Students will master textile science, garment construction, and alteration techniques, allowing them to make informed decisions about clothing and textile choices.

PSO5. Graduates will advocate for health and wellness within communities by promoting sustainable practices and raising awareness about nutrition and lifestyle choices.

PSO6. Students will develop effective communication and counselling skills to provide guidance and support in diverse family and community settings.

PSO7. Graduates will incorporate sustainable practices into home management, including energy conservation, waste reduction, and eco-friendly choices.

PSO8. Students will actively engage in community outreach programs related to Home Science, addressing social issues and promoting well-being.

PSO9. Graduates will demonstrate cultural competence by respecting diverse backgrounds and tailoring home and nutrition solutions to various cultural contexts.

PSO10. Students will have the ability to conduct research in Home Science, contributing to the field's development and adapting to evolving trends and technologies.

PSO For Computer Science

PSO1. Graduates should demonstrate proficiency in at least one programming language and be able to write, debug, and maintain software programs.

PSO2. Graduates should be capable of analysing and solving complex problems using computational thinking and algorithmic techniques.

PSO3. Develop the skills to design, implement, and test software applications or systems.

PSO4. Understand principles of data structures, databases, and data management.

PSO5. Gain a strong foundation in computer science theory, including topics like algorithms, data structures, and computer organization.

PSO6. Acquire knowledge about information technology concepts, including networking, security, and software development tools.

PSO7. Understand ethical and professional responsibilities related to computer science, including issues like privacy, security, and intellectual property.

PSO8. Develop effective communication skills, including the ability to document and present technical information clearly.

PSO9. Work effectively in teams and collaborate with others on software development projects.

PSO10. Be prepared to adapt to evolving technology and emerging trends in computer science.

PSO For Health and Physical Education

PSO1. Improve cardiovascular endurance, strength, flexibility, and body composition.

PSO2. Develop fundamental skills like running, jumping, throwing, and catching.

PSO3. Encourage a lifelong commitment to a healthy, active lifestyle.

PSO4. Promote fair play, teamwork, and good sportsmanship.

PSO5. Teach safe participation and injury prevention.

PSO6. Provide information on fitness, sports, and creating personal fitness plans.

PSO7. Enhance physical and mental well-being through exercise.

PSO8. Foster social interaction and communication in group activities.

PSO9. Enable students to assess and set fitness goals.

PSO10. Teach adaptability to different physical activities and settings.

Course Outcomes (CO)

Name of Program- Bachelor of Arts

Course Outcomes (COs) of Public Administration

B.A. Semester – I

Paper: Fundamentals of Public Administration- I

Students will be able to: -

CO 1. Define Public Administration and list its nature and scope.

CO 2. Evaluate the origin of Public Administration.

CO 3. Differentiate between Public and Private Administration.

CO 4. Examine the contribution of FW Taylor, Henry Fayol, Luther Gullick and Max Weber on the development of administrative thoughts and their influence on the structure and process of administrative organisation.

CO 5. Different control over administration: Judicial Control, Parliamentary Control and Executive Control.

B.A. Semester – I

Paper: Elements of Public Administration

CO 1: Raise awareness of the historical development of the public sector, fostering critical thinking and honing communication skills applicable to both public and private sectors.

CO 2: Explore fundamental principles and various methodological approaches in the study of Public Administration.

CO 3: Achieve theoretical clarity regarding core concepts and organizational structures, including formal and informal entities, regulatory commissions, and autonomous oversight bodies.

CO 4: Gain knowledge of key concepts and supportive agencies in Public Administration, encompassing top executives, line functions, and public relations.

B.A. Semester – II

Paper: Basics of Public Administration

CO 1: Enhance students' comprehension of organizational theories and the bureaucratic role in administration dynamics.

CO 2: Improve students' conceptual clarity in personnel administration, covering issues, career systems, and aspects like recruitment, training, promotion, and morale.

CO 3: Foster an understanding of the Budget system, its principles, accounting, audit, and its role in financial control within Indian administration.

CO 4: Familiarize students with administrative laws, tribunals, and public policies relevant to administration.

B.A. Semester – III

Paper: Central Administration

CO 1: Develop an understanding of Indian administration's historical legacies, distinctive features, and its role in socio-economic development, including citizens' fundamental rights and duties.

CO 2: Explore the federal executive's levels, roles, and responsibilities in central government, including the constitutional powers of the President, Prime Minister, Council of Ministers, and the contributions of central and cabinet secretariats in policy formulation and implementation.

CO 3: Understand the composition, functions, and roles of significant Government of India ministries such as Home and Finance Ministries, along with their interactions with financial regulatory bodies.

CO 4: Gain knowledge about the structure and importance of civil services in India, including the composition and functions of the Union Public Service Commission (UPSC).

B.A. Semester – IV

Paper: State and District Administration

CO 1: Develop comprehension of the constitutional framework that governs states in India, emphasizing the responsibilities and constitutional authority of the Governor, Chief Minister, Council of Ministers, and the functioning of state legislatures.

CO 2: Examine the State Secretariat and its directorate, including their structure and operational roles, and appreciate the significance of the Chief Secretary in state administration. This course also encompasses various planning committees.

CO 3: Acquire insight into District Governance and the functions, roles, and position of the District Administrator in local administration.

CO 4: Gain an understanding of district-level Police administration, encompassing the roles and responsibilities of the Superintendent of Police, as well as other officials at the district and sub-district levels such as SDM, BDPO, and Tehsildar.

B.A. Semester – V

Paper: Rural-Urban Administration (Option-A)

CO 1: Develop a solid theoretical foundation and gain insight into the historical evolution and expansion of local governance in rural areas, with a specific emphasis on Panchayati Raj institutions, in conjunction with the 73rd and 74th constitutional amendment acts.

CO 2: Acquire a deeper understanding of the composition, roles, functions, and available resources of urban local governing bodies in India.

CO 3: Comprehend the composition, functions, and resource allocation of Panchayati Raj institutions, while also exploring the dynamics of district planning committees.

CO 4: Investigate the roles, significance, and regulatory authority exercised by State Finance and Election Commissions over local government entities. Additionally, examine the intricate interplay between rural and urban areas and the challenges associated with local leadership.

B.A. Semester – VI

Paper: Issues in Public Administration (Option-A)

CO 1: Facilitate students in acquiring foundational knowledge about accountability within the realm of public administration, including the functions of Lokpal and Lokayukta.

CO 2: Empower students to comprehend the legal framework designed to combat corruption at both the national and state levels, while emphasizing the importance of integrity in administration.

CO 3: Enable students to grasp contemporary challenges such as good governance, the right to access information, and the Consumer Protection Act.

CO 4: Impart knowledge about the structures of both the political and permanent executive branches, while also exploring potential administrative reforms.

Course Outcomes (COs) of English

B.A. Semester-I (English Major)

Paper: Introduction to Short Story and Basic Grammar

CO 1: The students will comprehend different forms and techniques of short fiction.

CO 2: The students will be able to understand Tenses.

CO 3: The students will understand parts of speech, voice and narration.

CO 4: The students will progress to understand basics of grammar.

B.A. Semester-I (English Minor)

Paper: Literature and Language- I

CO 1: The students will be able to understand various hues of Prose writings.

CO 2: The students will be able to understand different kinds of Poetry.

CO 3: The students will be able to understand basics of English Grammar.

CO 4: The students will be able to understand antonyms and synonyms in English.

B.A. Semester-I

Paper: English Language and Communication Skills

CO 1: The students will learn various types of verbal and non- verbal communication.

CO 2: The students will understand the importance of interpersonal communication on workplaces and different ways of behaviour and communication.

CO 3: The students will comprehend the importance of listening skills and its types.

CO 4: The students will be introduced to parts of speech and their role in language learning.

B.A. Semester-I

Paper: Language and Literature

CO 1. To critically evaluate appreciate and interpret various kinds prose.

CO 2. To develop critical thinking in students.

CO 3. To enable them to write different types of prose.

CO 4. To ground them in basics of grammar.

CO 5. To enable them to pronounce words correctly and instil in them basics of Phonetics.

B.A. Semester-II

Paper: Language and Literature

CO 1. Introduces students to genre of short story written by famous authors.

CO 2. It familiarizes students with different representative sample of short stories.

CO 3. Provide knowledge of basic grammar.

CO 4. Grounds them in basics of Phonetics.

B.A.Semester III

Paper: Fragrance

CO 1. To inculcate ability to critically evaluate, appreciate and interpret poetry.

CO 2. To form an idea about various poetic devices.

CO 3. To enrich the students through various perspectives reading in poetry.

CO 4. To understand and appreciate poetry as a literary art form.

CO 5. To have knowledge of basic grammar.

CO 6. Develops their composition skills.

B.A.Semester IV

Paper:Snapshots

CO 1. Students are introduced to an anthology of one act plays by renowned authors.

CO 2. Introduces finer nuances of One Act Plays.

CO 3. Students learn phonetics, translation, dialogue writing, email writing, resume writing and book review.

B.A.Semester V

Paper:Kanthapura

CO 1. Introduces fiction as a genre.

CO2. Conceptualizes the Genre of Novels and its type viz. Allegorical, Epistolary, Picaresque and Psychological.

CO 3. Students is taught language through literature so that language could be learnt with entertainment without getting deterred by the technicalities of the language.

B.A. Semester VI

Paper: The Merchant of Venice

CO 1. The students are introduced to a Shakespearean play.

CO 2. They are exposed to fine elements of Shakespearean drama, basics and history of drama.

CO 3. They learn to write email, memo, circular, RTI, précis, business and official letters.

CO 4. Earn about dramatic devices used in the plays.

Course Outcomes (COs) of Political Science

B.A. Semester-I

Paper: Indian Constitution (option I)

CO 1: Students will be able to understand the philosophy of Indian Constitution.

CO 2: Students will be able to identify the causes and impact of British Colonial Rule and Indian National Movement.

CO 3: Students will be able to understand the functioning of Union, State and Local Governments in Indian Federal System.

CO 4: Students will be able to learn, procedure and effects of emergency, composition and activities of Election Commission and Amendment Proceedings.

B.A. Semester-I

Paper: Indian Politics (option 1)

CO 1: Students will be able to assess the nature of Indian Federalism with focus on Union-State Relations.

CO 2: Students will be able to evaluate the electoral process in India with focus on the Election Commission, Composition, functions, role and problem of defection.

CO 3: Students will be able to carry critically evaluate the Indian party system-its development and looking at the ideology of dominant national parties.

CO 4: Students will be able to evaluate the role of various forces on Indian politics: Role of Caste, Religion, Language, Regionalism in India and Politics of Reservation.

B.A. Semester-I

Paper- Principles of Political Science

CO 1. The students will be able to analyse meaning of Political Science, nature, significance of Political Science, relationship of Political Science with Philosophy, History, Economics, and Sociology.

CO 2. Students will have to develop the ability to assess the meaning and elements of the state and theories of origin of state.

CO 3. Students will be able to explain the function of state, state and society, state and government, state and nation.

CO 4. Students will be able to explain the concept of Monistic and pluralist theories of Sovereignty.

B.A. Semester- II

Paper- Principle of Political Science- II

CO I: Students will be able to assess the theory and practice of government, legislature, executive, judiciary, separation of powers and rule of law.

CO II: Students will be able to critically analyse the important institutions of the Indian Union, Forms of Government, Unitary and Federal, Parliamentary and Presidential.

CO III: Students will be able to critically evaluate the Indian Party System, Monarchy, Military Rule and Democracy.

B.A. Semester- III

Paper: Indian Political Thinkers (option ii)

CO1: Students will be able to understand and analyze the nature, methods and significance of political thought.

CO2: Students will be able to understand renaissance and reformation in India and the role of Raja Ram Mohan Roy, Swami Dayanand Saraswati and Swami Vivekananda, etc. in it.

CO 3: Students will also be able to understand the ideas of Dada Bhai Naoroji, Gopalkrishnan Gokhale, Asbindo Ghosh, Lala Lajpat Rai and the ideas of nationalism of Lokmanya Bal Gangadhar Tilak.

B.A. Semester- IV

Paper: Indian Political Thinkers (option ii)

CO1: Students will be able to understand the knowledge about modern political thinkers and their views on state craft.

CO2: Students will be able to explain the spirit of Ahimsa, Satyagraha through Mahatma Gandhi an Ideology.

CO3: The students will also come to know about the socialist idea of MN Roy, J P. Narayana, Bhagat Singh, and Key ideas of Mahatma Gandhi, Jawahar Lal Nehru and B.R. Ambedkar.

B.A. Semester- V

Paper: International Relations (option ii)

CO I: Students will be able to explain scope and subject matter of International Relations as an autonomous academic discipline.

CO 2: Students will be able to understand the approaches to the study of International Relations and limitations of National Power.

CO 3: Students will be able to discuss about Balance of Power, Collective Security, Environmentalism, and Globalisation.

B.A. Semester- VI

Paper: International Organisation

CO1- Students will be able to examine the working of UN and its organs.

CO2- Students will be able to evaluate origin of United Nations, Aims, principles of United Nations and membership of the United Nation.

CO 3- Students will be able to describe the Peace Making, Peace Enforcement, Peace Building, and Peace Keeping.

CO 4- Students will be able to understand the democratization of UN and India's claim for permanent seat.

Course Outcomes (COs) of Geography

B.A. Semester-I

Paper: Introduction to Geography of India

- CO 1-** Students will be able to acquire knowledge about the physiography of India.
- CO 2-** Students will be able to understand the agriculture and irrigation system of India.
- CO 3-** Students will be able to assess the basic demographic structure and Literacy of India
- CO 4-** This 4th course will provide the awareness about the resources and industries of India.

B.A. Semester-I

Paper: Geography of India

- CO 1:** Students will be able to understand the physiographic and geological structure of India.
- CO 2:** Students will be able to assess the basic demographic structure, human settlement types and levels of Urbanization.
- CO 3:** This course will provide the awareness about the resources.
- CO 4:** Students will acquire the knowledge about the industries of India along with the modes of transport and communication.

B.A. Semester-II

Paper: Physical Geography- I

- CO I:** Student will be able to understand the geological structure of the earth.
- CO 2:** Student will be able to acquire knowledge about earth movements and theory of Isostasy.
- CO 3:** Students will be able to understand the various atmospheric conditions and their impacts.
- CO 4:** Student will be able to enrich skills about the different agents working for Geomorphology.

B.A. Semester-III

Paper: Physical Geography- II

- CO 1-** Students will be able to evaluate the role of various atmospheric conditions in the formation of weather and climate.
- CO 2-** Students will be able to understand the weather conditions with focus on the Atmospheric pressure, Planetary winds, Humidity and EL NiNo - La Nina Phenomenon
- CO 3-** Students will be able to assess the Air-masses, Fronts and weather Disturbances and the classification of climate.
- CO 4-** Students will be able to evaluate the configuration of oceanic floors, while focusing on Pacific, Atlantic and Indian oceans.

B.A. Semester-IV

Paper: Human Geography

- CO 1-** Student will be able to acquire the knowledge about Human Geography while focusing on Nature, Scope and Approaches to the study of Human Geography along with the division of mankind.
- CO 2-** Student will be able to understand the Human adaptation to the Environment and enriches skill about biotic and abiotic resources.
- CO 3-** Student will be able to assess the basic demographic structure of world

CO 4- Student will be able to understand the Rural and Urban settlements along with the population pressure on Environment.

B.A. Semester-IV

Paper: Economic Geography

CO 1- Student will be able to assess the Economic activities and their impact on Environment

CO 2- Student will be able to acquire the knowledge about conservation and utilization of Natural Resources.

CO 3- Student will be able to evaluate the spatial distribution food, commercial and plantation crops along-with the mineral resources.

CO 4- This part provides the knowledge about the transport, communication and trade system of world.

B.A. Semester-VI

Paper: Introduction to Remote Sensing, GIS & Quantitative Methods

CO. I: Student will acquire the knowledge about Aerial Photographs and photo interpretation

CO 2- Student will understand the basic of Remote sensing and their uses in various fields.

CO 3- Student will be able to learn about GIS and their application in various fields of Geography.

CO 4- This course will enrich skills about statistics.

Course Outcomes (COs) of Sociology

B.A. Semester-I

Paper: Introduction Sociology

CO 1- Students will be able to analyse the meaning of Sociology Introduction of Sociology meaning, Nature, Scope Development of Sociology Relationship of Sociology with History psychology and economics.

CO 2- Students will be able to understand the basic concept of Society, Community, Institution, Association, Group Primary and Secondary, Reference Group, Social Structure, Status and Role.

CO 3- Students will be able to Culture and Society and its types- Socialisation Stages and agencies social control forms and agencies, religion: Meaning forms, functions and dysfunction, concept of religiosity.

CO 4- Students will be able to evaluate the social change meaning and types of factors of social change, Evolution, Progress, Growth Development, Revolution, Basics to Social Change.

B.A. Semester-III

Paper: Methods of Sociology Research

CO 1: Students will be able to analyse meaning of Research Social Research, Nature, Steps of Social Research, Objectivity and Subjectivity Social Research.

CO 2: Students will be able to understand the Data Collection, Observation, Interview, Case Study, Content Analysis, Social Survey.

CO 3: Students will be able to Research Methods Quantitative methods, Nature & Characteristics, Research Design, Sampling, Hypothesis.

CO 4: Students will be able to evaluate the use of statistic, classification and tabulation of data, measure of central tendency: Mean, Mode & Median and use of Computer in Data Analysis.

B.A. Semester-IV

Paper: Social Problems in India

CO I: Student will be able to Social Problems, Meaning and Importance and Social Disorganisation.

CO 2: Student will be able to understand Caste and Class and gender problems of Minorities.

CO 3: Students will be able to Female Foeticide Downy Domestic Violence.

CO 4: Student will acquire the knowledge about the social problems in India.

B.A. Semester-V

Paper: Foundation of Social thought

CO 1- Students will be able to social thoughts Positivism Comte law three stages.

CO 2- Students will be able to functionalism: Durkheim Concept of Social Fact.

CO 3- Students will be able to Conflict of Marx concept of Dialectical Historical Materialism.

CO 4- Students will be able to Interactionalism: Weber Interpretive Sociology.

B.A. Semester-VI

Paper: Rural Society: Structure & Change

CO 1- Student will be able to analyse meaning of Rural Society.

CO 2- Student will be able to understand the Social Structure.

CO 3- Student will acquire the knowledge about the Rural Economy and Rural Political Structure.

Music Vocal (CO)

The student learning outcomes are not only a reflection of the competencies the department desire each student to master prior to graduation, but are also skills the faculty deem essential for the eventual success of the students upon entering the workforce.

CO 1- Music major will demonstrate the comprehension of the relationship among multiple traditions, the connection to social trends, histories and styles of music art, and other disciplines.

CO 2- Music majors will demonstrate competencies in theoretical and actual skills through sight-singing performances generating and analyzing harmony, creating and notating self-generated musical ideas, and the graphic dictation of oral sounds.

CO 3- Music majors will demonstrate the ability to extempore cously compose musical ideas through improvisational performances.

CO 4- Music will demonstrate cooperative learning and creative expression through performance.

CO 5- Pry music, students will demonstrate the understanding and use of public performance for engaging communities, creating cultural awareness and ethical leadership.

CO 6- Students will be able to perform as so hoists, ensemble, members students will be able to create, analyse and synthesise music as a means of supporting developing careers in music, teaching and performance.

Course Outcomes (COs) of Mathematics

Semester I

Paper: Algebra

CO 1: Student will learn to find the roots of the quadratic, cubic and biquadratic equations as well as solution of various linear equations, fraction equations etc.

CO 2: Using Matrices, various types of equations can be solved.

CO3: General strategy of equation solving to the problems of optimization, Business and Logical problems, grouping system can be utilized.

Semester I

Paper: Calculus

CO 1: Concept of limit, continuity and differentiability is used to analyse the graph, extrema of function by classifying Maxima, minima inflexive nature.

CO 2: Anti derivative i.e., integration and its applications are useful for evaluating quadratic and other applied problems.

CO3: Concept of trigonometry, exponential, logarithmic, functions, inverse, functions, hyperbolic functions, and their application is helpful to many real-world situations.

Semester I

Paper: Solid Geometry

CO1: It emphasis the study of points, lines, shapes, and regions of solids and surface identification.

CO 2: Considering various parameters, different geometrical figures and shapes can be traced.

Semester-II

Paper: Number Theory and Trigonometry

CO 1: Number theory is helpful to students to understand the concept of prime numbers, prime factors, congruence's, quadratic residues, Fermat's theorem, Chinese remainder theorem for solution of simultaneous equations.

CO2: Number theory plays a vital role to coding and decoding system i.e., cryptography which is used to protect the electronically transmitted data.

CO 3: Knowledge of trigonometric, exponential and hyperbolic functions is used to find the nth roots of equation.

Semester-II

Paper: Ordinary Differential Equations

CO 1: It shows awareness about the classification, formation and solution of various initial and boundary value differential equations.

CO 2: Students will learn to solve homogenous, non-homogeneous differential equation which is useful to real world scenario of applied physics, modelling, numerical solutions of various problems etc.

Semester-II

Paper: Vector Calculus

CO 1: It helps to understand the nature of quantities having magnitude and direction i.e., differentiating between scalar and vector quantities.

CO 2: Students will learn cross product, dot product, scalar triple and vector triple product for finding the type of vectors e.g., orthogonal, irrotational and solenoidal nature.

CO: 3 Green's theorem, Stoke's theorem etc. are used to evaluate multiple integrals.

Semester-III

Paper: Advanced Calculus

CO 1: Students will be able to learn maxima and minima of functions of two variables.

CO 2: To understand different indeterminate forms of limit, continuity, discontinuity of functions of two variables.

CO 3: It will help to understand behaviour of curves in space.

Semester-III

Paper: Partial Differential Equations

CO 1: Students will learn classification and solution of partial differential equations by conditions at boundary of the domain with different methods.

CO 2: To derive wave, heat equation etc. in one-dimensional and two- dimensional.

CO 3: To classify Partial differential equations and transform into canonical form.

Semester-III

Paper: Statics

CO 1: Students will learn the basic concept of mechanics, equilibrium of rigid bodies.

CO 2: Student will understand the ability to isolate rigid bodies and to draw clear and appropriate free body diagrams.

CO 3: Students will analyse equilibrium conditions under the effect of the external forces acting on the rigid and to simplify different problems using the basic principles of mechanics.

Semester- IV

Paper: Sequences and Series

CO 1: Students will learn the concepts of sequences, their types i.e., finite, infinite, bounded, monotonic, convergent, divergent sequence etc.

CO 2: Students will understand the concept of infinite series, sequence of partial sums, and their convergence/divergence using concepts of sequences, sum of convergent series.

CO 3: Students will learn various tests like p-series test, comparison tests, alternating series test, root test, ratio test to check the convergence or divergence of sequences and series.

Semester- IV

Paper: Special Functions and Integral Transform

CO 1: Students will learn to analyse the properties of special functions by their integral representations.

CO 2: Students will learn the concepts of solving different equations by the properties of Fourier Transform, Laplace Transform.

CO 3: Students will determine the properties of Legendre's polynomial which may be solved by application of special functions.

Semester- IV

Paper: Programming in C & Numerical Methods

CO 1: Students will be able to learn effective usage of arrays, structures, functions, pointers etc.

CO2: Students will study different numerical methods to solve algebraic, transcendental equation, linear system of equations.

CO 3: Students will learn practical knowledge of C to apply it to learn the solution of various equations.

Semester- V

Paper: Real Analysis

CO 1: Students will understand the concepts of real numbers, least upper bounds, greatest lower bounds, countable and uncountable sets, limit inferior, superior and limit of sequences.

CO2: Students will learn metric spaces, open, closed, connected, bounded, totally bounded or compact sets in metric spaces.

CO 3: Students will learn continuity, discontinuity, uniform continuity of functions in metric spaces.

Semester- V

Paper: Groups and Rings

CO 1: Students will understand different algebraic properties in different sets and identify sets under binary operation is group or not, abelian group, subgroups fundamentals theorem of group etc.

CO 2: Students will learn the concepts of rings, fields, unique factorization domain, integral domains and their various properties.

CO 3: Students will study permutation group, symmetries, products and various operations of cycles.

Semester- V

Paper: Numerical Analysis

CO 1: To understand, theoretical and practical aspects of the use of numerical analysis that will be used in the field of sciences and in engineering.

CO 2: Students will learn various methods of numerical integration approximation, differentiation, numerical solution of ordinary differential equations.

CO 3: Student will learn methods of solution of equation, matrix inversion, calculation of Eigen values and Eigen vectors and will be able to find the numerical approximations and error estimation in a range of problems.

CO 4: Students will learn to write codes in C language efficiently and skilfully to demonstrate numerical methods.

Semester- VI

Paper: Real and Complex Analysis

CO 1: Students will learn to visualize complex numbers as points of \mathbb{R}^2 and stereographic projection of complex plane in Riemann sphere.

CO 2: Students will understand the concept of complex functions, analytic functions, Cauchy-Riemann equations and results of harmonic functions and their properties.

CO 3: Students will understand Jacobians, Beta, Gamma functions, double and triple integral, Fourier series etc.

Semester- VI

Paper: Linear Algebra

CO 1: Students will learn algebraic and geometric representation of vectors in \mathbb{R}^n and their various operations in matrix algebra, vector spaces etc.

CO 2: Students will understand to determine rank, determine Eigen values, diagonalization, orthogonality and orthonormality of vectors.

CO 3: Students will learn dimension, basis of vector space, matrix representing a linear transformation under a given basis and will determine how the matrix changes if the basis is changed.

Semester- VI

Paper: Dynamics

CO 1: Students will be able to draw free body diagram for a particle or for a rigid body in plane motion, will understand the concepts of mass, velocity, acceleration, force, work and energy etc.

CO 2: Students will learn to analyse the general motion of rigid body on smooth and rough planes.

CO 3: Students will learn Kepler's laws of planetary motion and will be able to solve various problems of applied physics and mechanical engineering.

Course Outcomes (COs) of Computer Science

All UG Semester – I

Paper: Basic IT Tools

CO 1: To identify the basic components of computers and terminology.

CO 2: To acquaint with Operating System and its applications for both desktop and mobile devices.

CO 3: To understand computer networks and browse the internet, content search, email and collaborate with peers.

CO 4: To use e-Governance applications; and use computer to improve existing skills and learn new skills.

Semester-I (B.A./ Bachelor of Physical Science NEP)

Paper: Logical Organization of Computer

CO 1: To understand number systems, error detecting correcting code and representations of numbers in a computer system.

CO 2: To understand computer arithmetic and Boolean Algebra and simplification of Boolean expressions.

CO 3: To understand working of logic gates and design various combinational circuits using these logic gates.

CO 4: To understand working of different types of flip-flops and design different types of registers.

Semester-III (B.A./ B.A. Maths. (Hons.)/ B.Sc.)

Paper: Data Structures

CO 1: Allow to access how the choice of Data Structures and Algorithm design methods impacts the performance of programs.

CO 2: To choose the appropriate data structure and algorithm design method for a specified application.

CO 3: To solve problems using data structures such as linear lists, stacks, queues, binary trees, binary search trees, and graphs and writing programs for the solutions.

CO 4: To efficiently implement the different data structures and solutions for specific problems.

Paper: Software Engineering

CO 1: To understand the concept of Software Engineering and various SDLC.

CO 2: To learn how to prepare the SRS document.

CO 3: To learn to calculate the cost of software project for an enterprise.

CO 4: Understand the fundamentals of software testing and software maintenance.

Semester-III (B.Com.(Hons.))

Paper: Networking and Web Designing

CO 1: To understand the basic concepts of Internet and Website.

CO 2: To understand the basic concepts of HTML and DHTML.

CO 3: To create tables, links, frames and forms with the using of HTML.

CO 4: To understand the basic working of Adobe Page Maker and Dream Weaver.

Semester-IV (B.A/ B.A. Maths. (Hons.)/ B.Sc.)

Paper: Object Oriented Programming with C++

CO 1: To understand the basic concepts of C++.

CO 2: To implement OOPS concepts with C++.

CO 3: To learn operators, hierarchy and their precedence and different control structures of C++.

CO 4: To develop programs using arrays, strings and functions.

Paper: Operating System

CO 1: To understand the concept of Operating Systems, processes and the CPU scheduling.

CO 2: To understand the concept of concurrent processes and deadlocks in operating systems.

CO 3: To understand the file, memory and device management in operating systems.

CO 4: To understand the need of protection & security along with distributed operating systems.

Semester-V (B.A/ B.Sc.)

Paper: Fundamentals of Database Systems

CO 1: To understand the basic concepts of data base.

CO 2: To understand the functions, components and architecture of Database System.

CO 3: To understand different data models along with its functions and design an ER diagram of an enterprise.

CO 4: To understand the classification of DBMS, Centralized and Client Server architecture.

Paper: Web Designing

CO 1: To understand the basic concepts of Internet and WWW.

CO 2: To understand the theoretical steps for developing a website.

CO 3: To understand the basic features of HTML.

CO 4: To create the forms and frame with the using of HTML.

Semester-VI (B.A/ B.Sc.)

Paper: Relational Data Base Management System.

CO 1: To understand the different Data Models along with its functions.

CO 2: To understand different functional dependency and normalization.

CO 3: To understand the concepts of relational calculus.

CO 4: Write SQL statements to retrieve information and create procedures in PL/SQL.

Paper: Computer Networks

CO 1: To characterize various types of computer networks and standards along with an insight into the principles of networking by using protocol layering of the Internet and the TCP/IP protocol.

CO 2: To comprehend the notion of data communication and its related functional components and aspects.

CO 3: To understand design issues related to Local area Networks and get acquainted with the prevailing wired and wireless LAN technology standards.

CO 4: To get versed with the routing, addressing and congestion control issues in Networks and the Internet architecture.

Course Outcome of History

B.A. - Semester 1st

Paper - Idea of Bharat

CO1. Students will be able to understand the concept of Bharatvarsha and its Political Contour, Indian concept of Time and Space, the Historical Glory of Ancient Indian literature and Ancient Indian Education system.

CO2. Students will be able to describe the Indian perception of Dharma and Darshan, the concept of Vasudhaivakutumbakam: man, family, society and world, concept of Janapada and Gram Swaraaj, salient features of Indian Arts and Culture.

CO3. Students will be able to understand the Science, Technology and Mathematics in Ancient India, Science of Life: Ayurveda, Yoga and Naturopathy, Environment Conservation: Indian view, Indian Economic thoughts: Agriculture, Industry, Trade and Maritime Commerce.

CO4. Students will be able to describe with the help of Indian map : the Political Contours of Ancient Bharat varsha, Places of Indian Arts in Ancient times, Important Janapada of Ancient India, Maritime Commerce in Ancient India

B.A. - Semester 3rd

Paper - Political History of India

CO 1 Students will be able to understand the Establishment of Mughal Empire: Babur, Sher Shah and his Administration, Akbar: Expansion of Empire, Rajput Policy and Religious Policy, Aurangzeb: Relations with Rajputs and Religious Policy.

CO 2 Students will be able to understand the Deccan Policy of the Mughals, Relations of Mughals with the Sikhs ,Mughal Administration: Central and Provincial; Revenue System Institutions: Mansabdari and Jagirdari, Decline of Mughal Empire.

CO 3. Students will be able to understand the Rivalry between the French and the British in India, Occupation of Bengal by the British: Battles of Plassey and Buxar, Consolidation of the British Empire: Subsidiary Alliance System and Doctrine of Lapse ,Uprising of 1857: Causes, Course and Consequences.

CO.4 Students will be able to describe with the help of (India) map :Political Conditions of India in 1526 ,Mughal Empire at the Death of Akbar (1605), Mughal Empire at the Death of Aurangzeb (1707), Expansion of British Empire up to 1856 ,Major Centres of Uprising of 1857.

B.A. - Semester 4th

Paper - Indian National Movement.

CO1. Students will be able to understand the Origin of the National Consciousness, Founding of Indian National Congress, Moderates and Extremists: Ideology, Programmes and Politics, Home Rule Movement.

CO 2 Students will be able to understand the Role of Mahatma Gandhi in Freedom Movement: Non-Cooperation Movement, Civil-Disobedience Movement and Quit India Movement, Ideology and Contribution of Revolutionaries with special reference to Bhagat Singh.

CO 3 Students will be able to understand the Political Reforms: Acts of 1909 and 1919, Rise of Communal Politics: Muslim League- Ideology and Politics, Conclusion of Poona Pact and the Act of 1935, Subhash Chandra Bose and Indian National Army, Partition and Independence of India.

CO.4 Students will be able to describe with the help of (India) map: Places of Important Sessions of Indian National Congress, Areas and Centres of Home Rule Movement, Areas

and Centres of Civil Disobedience Movement, Important Centres of Revolutionary Movement, Areas and Centres of Quit India Movement.

B.A. - Semester 5th

Paper - Rise of Modern World

CO 1 Students will be able to understand the Transition from Feudalism to Capitalism in Europe, Renaissance: Origins, Emergence and Results, Reformation: Origins, Emergence and Results.

CO.2 Students will be able to explain the Economic Development During 16th Century: Shift of Economic Balance from the Medi- terranean to Atlantic Region, Old Colonial System: Motives, Process and Consequences of Colonization in Americas, Mercantile Revolution: Origins, Nature and Results.

CO.3 Students will be able to explain the Scientific Revolution: Origins, Nature and Results, Glorious Revolution: Causes and Results, Industrial Revolution: Origins, Nature and Impact, Agricultural Revolution: Origins, Nature and Impact.

CO.4 Students will be able to describe with the help of (Europe) map : Important Centers of Renaissance, Important Centers of Reformation ,Major Places Connected with Industrial Revolution, Mercantile Powers of Europe.

B.A. - Semester 6th

Paper - Modern World

CO 1 Students will be able to understand the Renaissance and Reformation, Rise of Capitalism: Early Stages-Mercantile Capital and Free Trade Capital, Agricultural Revolution and Industrial Revolution.

CO2 Students will be able to understand the Growth of Liberalism in England: Development of Parliamentary Form of Government, American Revolution: Causes and Impact, French Revolution: Nature and Impact, Rise of Imperialism: Causes and Consequences.

CO3 Students will be able to understand the World War I: Causes and Consequences, Paris Peace Settlement and its Consequences, Rise of Socialism and Bolshevik Revolution in Russia, Rise of Dictatorship: Nazism and Fascism, World War II: Causes and Consequences.

CO 4 Students will be able to describe with the help of (Europe/World) map : European Countries having been witnessed Industrial Revolution, Europe on the Eve of French Revolution Polarization of Countries before World War-I Europe after Paris Peace Settlement Polarization of Countries before World War-II

Course Outcomes (COs) of Economics

B.A. Semester – I

Paper: Microeconomics-I

CO 1: To know the scope and breadth of Microeconomics along with understanding of these concepts to comprehend real world problems along with the ability to think critically and analyse economic problems.

CO 2: To understand the concept of ordinal utility. The core principles of demand so that they can apply the able to apply the understanding of these concepts to comprehend real world problems. It will make students aware about the various concept of utility.

CO 3: Understanding the core principles of productions so that they can apply the understanding of the concepts to comprehended real world problems along with the ability to think critically and analyse economic problems

CO 4: It will make students aware about the various concepts of cost and revenue so that they are able to apply the understanding of these concepts

B.A. Semester – I

Paper: Agricultural Economics

CO 1: To understand, critically analyse and present the nature, importance and scope of Agricultural Economics

CO 2: To attain in-depth understanding of the burning issues in Indian agriculture including problems of Agricultural Labourers

CO 3: To analyse the contribution of Agriculture in economic development and inter-sectoral linkages of Agriculture

CO 4: To understand the relationship between farm size and Productivity.

B.A. Semester – II

Paper: Microeconomics-II

CO 1: Analyze given situations in a perfect market on a micro economic level. Understand the internal structure and assumptions of the different analytical frameworks of market conditions

CO 2: Analyze given situations in a monopoly and monopolistic competition markets on a micro economic level. Understand the internal structure and assumptions of the different analytical frameworks of market conditions

CO 3: Analyze given situations in a various market on a micro economic level. Understand the internal structure and assumptions of the different analytical frameworks of market conditions.

CO 4: Apply Micro economic tools to solve real life problems especially under uncertainty and game theory.

B.A. Semester – II

Paper: Public Economics

CO 1: To understand the nature, scope and importance of public finance and different role of government

CO 2: To become familiar with the concept of budget and types or classification of budget, budget making process in India.

CO 3: To understand the principle of Maximum social Advantage

CO 4: To become familiar with the concept of public goods, private goods and Merit goods.

B.A. Semester – III

Paper: Macroeconomics-I

CO 1: To introduce students with the basic concepts of Macroeconomics especially National Income and circular flow of economic activity.

CO 2: To understand Macroeconomic behaviour in terms of Classical theory of Employment, Say's law, Keynes' theory of equilibrium level of income and Employment

CO 3: To Know about consumption behavior at macroeconomic level, Keynes' psychological law of consumption, hypotheses about long run income-consumption relationship

CO 4: Understanding about capital and Investment, Decision to invest at macro- economic level, determinants of induced investment

B.A. Semester – IV

Paper: Macroeconomics-II

CO 1: To understand about income generation process through Investment, multiplier effect and acceleration effect of income, combined action of multiplier and acceleration effect.

CO 2: Understanding of value of money; classical, neoclassical approach, Demand for money and Supply of money, components of money supply, role of credit and high-powered money in an economy.

CO 3: To know about fluctuations in value of money: inflation Causes, process of inflation, measures, Employment –inflation relationship: hypotheses

CO 4: To Understand about business cycles, dynamics of business cycles phases, Theories of Business Cycles

B.A. Semester – V

Paper: Indian Economy-I

CO 1: To Know economic systems, types of economies, Features of Indian economy along with its potential and resources

CO 2: To Understand the importance, causes and impact of population grow than distribution, translate them with economic development

CO 3: To Understand the causes and consequences of Unemployment, Poverty in India and government initiatives.

CO4:Analyze the role of agriculture in Indian economy, causes of low productivity, demonstrate achievements and failures of green revolution, Sources of Agricultural Finance, Agricultural Marketing and SEZs.

B.A. Semester – VI

Paper: Indian Economy-II

CO 1: To Understand the challenges, achievements and failure during different five years plans & know the strategies for economic reforms before and after 1991.

CO 2: To Understand the growth than problems of small and large-scale industry, have knowledge about information technology and software consultancy.

CO 3: To analyze trends in Indian foreign trade and analyze the role of FDI, FII and MNCs in India.

CO 4: To Understand external borrowings and BOP problem in India and Establish relationship between international Institutions and Indian economy.

Course Outcomes (COs) of Home Science

B.A. Semester – I

Paper: Home and Interior Décor

CO 1: To Improve the effectiveness, functionality of an environment.

CO 2: To help to optimise the space in available space.

CO 3: Making our lifestyle more modern & stylish

B.A. Semester – II

Paper: Nutrition Science: -

CO 1: Understand the interaction between diet & health.

CO 2: Teach about how food is digested, absorbed & metabolized at different stage of life.

B.A. Semester – III

Paper: Human Physiology

CO 1: Physiology is important for understanding of the body's function.

CO 2: To help students understand the functions of individual human organ System.

CO 3: Physiology is the study of how the human body works. It describes the chemistry & physics behind basic body functions.

B.A. Semester – IV

Paper: Clothing & Textile

CO 1: Understanding experience about overview of textile fibres, their production.

CO 2: Gives advanced Knowledge of design principles, fashion history & fabric technology.

CO 3: Clothing Cover protection, adornment, identification modesty & status.

B.A. Semester – V

Paper: Foods & Nutrition

CO 1: People will be able to interpret and apply nutrition concepts to evaluate & improve the nutritional health of communities.

CO 2: Nutrition education can teach students to recognise how healthy diet influences emotional well Being & how emotions may influence eating habits.

CO 3: People with healthy eating patterns live longer and are at lower risk for serious health problems such as heart disease etc.

B.A. Semester – VI

Paper: Human Development

CO 1: This program prepares you to Support the unique needs a growth of all learners.

CO 2: Enhancing knowledge of people creating a decent standard of living.

CO 3: This field aims to understanding the various changes individuals & their relationships go through as they continue to learn and grow.

Program Outcome For Bachelor of Physical Science (PO)

Upon completing our Bachelor of Physical Sciences program, graduates will:

PO1. Possess a strong grasp of physics and chemistry principles.

PO2. Exhibit proficiency in conducting experiments and data analysis.

PO3. Demonstrate problem-solving and critical thinking abilities.

PO4. Apply knowledge across physics and chemistry for innovative solutions.

PO5. Utilize advanced math for modelling physical phenomena.

PO6. Analyse data and make evidence-based decisions.

PO7. Communicate scientific findings clearly.

PO8. Uphold ethical standards in research and practice.

PO9. Use modern tools for research and analysis.

PO10. Engage in research projects and foster innovation.

PO11. Consider environmental impact in scientific endeavours.

PO12. Be prepared for careers in research, industry, or education.

Graduates will contribute to scientific advancement and address complex challenges in diverse fields.

Program Specific Outcomes for Bachelor of Physical Science (PSO)

PSO1. Graduates should have a solid understanding of fundamental concepts and principles in physics, chemistry, and mathematics.

PSO2. Develop proficiency in conducting experiments, collecting data, and analysing results in physical science disciplines.

PSO3. Acquire advanced mathematical and computational skills necessary for solving complex problems in physical sciences.

PSO4. Develop the ability to formulate research questions, design experiments, and conduct scientific investigations.

PSO5. Cultivate critical thinking skills to analyse and solve scientific problems effectively.

PSO6. Learn to process and interpret experimental data, draw meaningful conclusions, and communicate findings.

PSO7. Understand the connections between different branches of physical sciences and their applications in real-world scenarios.

PSO8. Understand and apply ethical principles and practices in scientific research and experimentation.

PSO9. Gain an appreciation for environmental issues and the role of physical sciences in addressing environmental challenges.

PSO10. Develop proficiency in mathematical modelling, statistical analysis, and data visualization.

PSO11. Depending on the program's specialization, attain expertise in advanced topics within specific physical science disciplines, such as quantum mechanics, thermodynamics, or spectroscopy.

PSO12. Master the art of presenting scientific findings through seminars, conferences, or publications.

PSO13. Prepare for further studies or careers in academia, research, industry, or other related fields within physical sciences.

PSO14. Understand and follow safety protocols and best practices in laboratory settings.

Course Outcomes (CO)
Name of Program- Bachelor of Physical Science

Course Outcomes (COs) of Mathematics

Semester I

Paper: Algebra

CO 1: Student will learn to find the roots of the quadratic, cubic and biquadratic equations as well as solution of various linear equations, fraction equations etc.

CO 2: Using Matrices, various types of equations can be solved.

CO3: General strategy of equation solving to the problems of optimization, Business and Logical problems, grouping system can be utilized.

Semester I

Paper: Calculus

CO 1: Concept of limit, continuity and differentiability is used to analyse the graph, extrema of function by classifying Maxima, minima inflexive nature.

CO 2: Anti derivative i.e., integration and its applications are useful for evaluating quadratic and other applied problems.

CO3: Concept of trigonometry, exponential, logarithmic, functions, inverse, functions, hyperbolic functions, and their application is helpful to many real-world situations.

Semester I

Paper: Solid Geometry

CO1: It emphasis the study of points, lines, shapes, and regions of solids and surface identification.

CO 2: Considering various parameters, different geometrical figures and shapes can be traced.

Semester-II

Paper: Number Theory and Trigonometry

CO 1: Number theory is helpful to students to understand the concept of prime numbers, prime factors, congruence's, quadratic residues, Fermat's theorem, Chinese remainder theorem for solution of simultaneous equations.

CO2: Number theory plays a vital role to coding and decoding system i.e., cryptography which is used to protect the electronically transmitted data.

CO 3: Knowledge of trigonometric, exponential and hyperbolic functions is used to find the nth roots of equation.

Semester-II

Paper: Ordinary Differential Equations

CO 1: It shows awareness about the classification, formation and solution of various initial and boundary value differential equations.

CO 2: Students will learn to solve homogenous, non-homogeneous differential equation which is useful to real world scenario of applied physics, modelling, numerical solutions of various problems etc.

Semester-II

Paper: Vector Calculus

CO 1: It helps to understand the nature of quantities having magnitude and direction i.e., differentiating between scalar and vector quantities.

CO 2: Students will learn cross product, dot product, scalar triple and vector triple product for finding the type of vectors e.g., orthogonal, irrotational and solenoidal nature.

CO: 3 Green's theorem, Stoke's theorem etc. are used to evaluate multiple integrals.

Semester-III

Paper: Advanced Calculus

CO 1: Students will be able to learn maxima and minima of functions of two variables.

CO 2: To understand different indeterminate forms of limit, continuity, discontinuity of functions of two variables.

CO 3: It will help to understand behaviour of curves in space.

Semester-III

Paper: Partial Differential Equations

CO 1: Students will learn classification and solution of partial differential equations by conditions at boundary of the domain with different methods.

CO 2: To derive wave, heat equation etc. in one-dimensional and two-dimensional.

CO 3: To classify Partial differential equations and transform into canonical form.

Semester-III

Paper: Statics

CO 1: Students will learn the basic concept of mechanics, equilibrium of rigid bodies.

CO 2: Student will understand the ability to isolate rigid bodies and to draw clear and appropriate free body diagrams.

CO 3: Students will analyse equilibrium conditions under the effect of the external forces acting on the rigid and to simplify different problems using the basic principles of mechanics.

Semester- IV

Paper: Sequences and Series

CO 1: Students will learn the concepts of sequences, their types i.e., finite, infinite, bounded, monotonic, convergent, divergent sequence etc.

CO 2: Students will understand the concept of infinite series, sequence of partial sums, and their convergence/divergence using concepts of sequences, sum of convergent series.

CO 3: Students will learn various tests like p-series test, comparison tests, alternating series test, root test, ratio test to check the convergence or divergence of sequences and series.

Semester- IV

Paper: Special Functions and Integral Transform

CO 1: Students will learn to analyse the properties of special functions by their integral representations.

CO 2: Students will learn the concepts of solving different equations by the properties of Fourier Transform, Laplace Transform.

CO 3: Students will determine the properties of Legendre's polynomial which may be solved by application of special functions.

Semester- IV

Paper: Programming in C & Numerical Methods

CO 1: Students will be able to learn effective usage of arrays, structures, functions, pointers etc.

CO2: Students will study different numerical methods to solve algebraic, transcendental equation, linear system of equations.

CO 3: Students will learn practical knowledge of C to apply it to learn the solution of various equations.

Semester- V

Paper: Real Analysis

CO 1: Students will understand the concepts of real numbers, least upper bounds, greatest lower bounds, countable and uncountable sets, limit inferior, superior and limit of sequences.

CO2: Students will learn metric spaces, open, closed, connected, bounded, totally bounded or compact sets in metric spaces.

CO 3: Students will learn continuity, discontinuity, uniform continuity of functions in metric spaces.

Semester- V

Paper: Groups and Rings

CO 1: Students will understand different algebraic properties in different sets and identify sets under binary operation is group or not, abelian group, subgroups fundamentals theorem of group etc.

CO 2: Students will learn the concepts of rings, fields, unique factorization domain, integral domains and their various properties.

CO 3: Students will study permutation group, symmetries, products and various operations of cycles.

Semester- V

Paper: Numerical Analysis

CO 1: To understand, theoretical and practical aspects of the use of numerical analysis that will be used in the field of sciences and in engineering.

CO 2: Students will learn various methods of numerical integration approximation, differentiation, numerical solution of ordinary differential equations.

CO 3: Student will learn methods of solution of equation, matrix inversion, calculation of Eigen values and Eigen vectors and will be able to find the numerical approximations and error estimation in a range of problems.

CO 4: Students will learn to write codes in C language efficiently and skilfully to demonstrate numerical methods.

Semester- VI

Paper: Real and Complex Analysis

CO 1: Students will learn to visualize complex numbers as points of \mathbb{R}^2 and stereographic projection of complex plane in Riemann sphere.

CO 2: Students will understand the concept of complex functions, analytic functions, Cauchy-Riemann equations and results of harmonic functions and their properties.

CO 3: Students will understand Jacobians, Beta, Gamma functions, double and triple integral, Fourier series etc.

Semester- VI

Paper: Linear Algebra

CO 1: Students will learn algebraic and geometric representation of vectors in \mathbb{R}^n and their various operations in matrix algebra, vector spaces etc.

CO 2: Students will understand to determine rank, determine Eigen values, diagonalization, orthogonality and orthonormality of vectors.

CO 3: Students will learn dimension, basis of vector space, matrix representing a linear transformation under a given basis and will determine how the matrix changes if the basis is changed.

Semester- VI

Paper: Dynamics

CO 1: Students will be able to draw free body diagram for a particle or for a rigid body in plane motion, will understand the concepts of mass, velocity, acceleration, force, work and energy etc.

CO 2: Students will learn to analyse the general motion of rigid body on smooth and rough planes.

CO 3: Students will learn Kepler's laws of planetary motion and will be able to solve various problems of applied physics and mechanical engineering.

Course Outcomes (COs) of Economics

B.A. Semester – I

Paper: Indian Economy-1

CO 1: To understand the characteristics and indicators of Indian economy

CO 2: To know the institutional structure of agriculture and issues of food security in Indian economy

CO 3: Understanding the India's population growth, its reasons and various theory of population growth.

CO 4: To attain in-depth understanding of the burning issues in Indian agriculture including land reforms, Agricultural Marketing and Agricultural Price Policy

B.A. Semester – II

Paper: Indian Economy-II

CO 1: To understand the concept of agricultural, industrial and service sectors of Indian economy

CO 2: To become familiar with the concepts of economic growth, economic development, sustainable development

CO 3: To understand the concept of international trade and EXIM Policy.

CO 4: To Understand the Concept of Monetary Policy, fiscal Policy and economic Planning in Indian Economy

Program Outcome for Bachelor of Arts (Hons.) in Mathematics (PO)

Upon successful completion of the Bachelor of Arts (Hons.) in Mathematics program, students will:

PO1. Demonstrate a deep and comprehensive understanding of advanced mathematical concepts and theories.

PO2. Excel in problem-solving, applying mathematical techniques to solve complex real-world challenges.

PO3. Acquire the ability to conduct independent mathematical research, including formulating hypotheses and proving theorems.

PO4. Communicate complex mathematical ideas and solutions clearly, both in written and oral forms.

PO5. Apply mathematical principles and methodologies to interdisciplinary fields such as economics, physics, computer science, and more.

PO6. Possess strong statistical analysis skills, capable of handling and interpreting data for decision-making in various contexts.

PO7. Utilize computational tools and programming languages to solve mathematical problems and model real-world phenomena.

PO8. Uphold the highest ethical standards in mathematical research and practice, fostering integrity and responsible conduct.

PO9. Be prepared for teaching roles, able to impart mathematical knowledge effectively to diverse audiences, and engage in mathematics outreach activities.

PO10. Be well-prepared for pursuing advanced degrees in mathematics or related fields, contributing to the frontiers of mathematical knowledge.

PO11. Make original contributions to the field of mathematics through research and scholarly activities.

PO12. Be equipped with analytical and problem-solving skills that make graduates highly sought-after in a range of industries, including finance, data science, engineering, and academia.

By achieving these program outcomes, graduates of the BA in Mathematics with Honors program will be poised for successful careers, advanced academic pursuits, and the ability to make meaningful contributions to mathematical research and its applications.

Program Specific Outcome For Bachelor of Arts (Hons.) in Mathematics

PSO1. Graduates should possess a deep and comprehensive understanding of advanced mathematical concepts and theories.

PSO2. Develop strong mathematical reasoning and problem-solving skills to tackle complex mathematical problems and proofs.

PSO3. Acquire the ability to formulate mathematical models to solve real-world problems and apply mathematical techniques to various disciplines.

PSO4. Master abstract algebra and real/complex analysis, which are foundational areas of advanced mathematics.

PSO5. Gain proficiency in statistical analysis, probability theory, and their applications in data analysis and decision-making.

PSO6. Develop programming and computational skills to facilitate mathematical modeling and simulations.

PSO7. Enhance the ability to communicate mathematical concepts and proofs effectively in both written and oral forms.

PSO8. Conduct independent research in mathematics, including the completion of a research thesis or project.

PSO9. Explore interdisciplinary connections and apply mathematical concepts to various fields such as physics, economics, computer science, and engineering.

PSO10. Understand the principles of effective mathematics teaching and communication, if considering a career in education.

PSO11. Apply ethical principles in mathematical research and professional interactions.

PSO12. Prepare for postgraduate studies in mathematics, related fields, or careers in academia, research, finance, or data science.

Course Outcomes (CO)
Name of Program- Bachelor of Arts (Hons.) in Mathematics

Course Outcomes (COs) of Mathematics

Semester I

Paper: Algebra

CO 1: Student will learn to find the roots of the quadratic, cubic and biquadratic equations as well as solution of various linear equations, fraction equations etc.

CO 2: Using Matrices, various types of equations can be solved.

CO3: General strategy of equation solving to the problems of optimization, Business and Logical problems, grouping system can be utilized.

Semester I

Paper: Calculus

CO 1: Concept of limit, continuity and differentiability is used to analyse the graph, extrema of function by classifying Maxima, minima influence nature.

CO 2: Anti derivative i.e., integration and its applications are useful for evaluating quadratic and other applied problems.

CO3: Concept of trigonometry, exponential, logarithmic, functions, inverse, functions, hyperbolic functions, and their application is helpful to many real-world situations.

Semester I

Paper: Solid Geometry

CO1: It emphasizes the study of points, lines, shapes, and regions of solids and surface identification.

CO 2: Considering various parameters, different geometrical figures and shapes can be traced.

Semester-II

Paper: Number Theory and Trigonometry

CO 1: Number theory is helpful to students to understand the concept of prime numbers, prime factors, congruence's, quadratic residues, Fermat's theorem, Chinese remainder theorem for solution of simultaneous equations.

CO2: Number theory plays a vital role to coding and decoding system i.e., cryptography which is used to protect the electronically transmitted data.

CO 3: Knowledge of trigonometric, exponential and hyperbolic functions is used to find the n th roots of equation.

Semester-II

Paper: Ordinary Differential Equations

CO 1: It shows awareness about the classification, formation and solution of various initial and boundary value differential equations.

CO 2: Students will learn to solve homogenous, non-homogeneous differential equation which is useful to real world scenario of applied physics, modelling, numerical solutions of various problems etc.

Semester-II

Paper: Vector Calculus

CO 1: It helps to understand the nature of quantities having magnitude and direction i.e., differentiating between scalar and vector quantities.

CO 2: Students will learn cross product, dot product, scalar triple and vector triple product for finding the type of vectors e.g., orthogonal, irrotational and solenoidal nature.

CO: 3 Green's theorem, Stoke's theorem etc. are used to evaluate multiple integrals.

Semester-III

Paper: Advanced Calculus

CO 1: Students will be able to learn maxima and minima of functions of two variables.

CO 2: To understand different indeterminate forms of limit, continuity, discontinuity of functions of two variables.

CO 3: It will help to understand behaviour of curves in space.

Semester-III

Paper: Partial Differential Equations

CO 1: Students will learn classification and solution of partial differential equations by conditions at boundary of the domain with different methods.

CO 2: To derive wave, heat equation etc. in one-dimensional and two- dimensional.

CO 3: To classify Partial differential equations and transform into canonical form.

Semester-III

Paper: Statics

CO 1: Students will learn the basic concept of mechanics, equilibrium of rigid bodies.

CO 2: Student will understand the ability to isolate rigid bodies and to draw clear and appropriate free body diagrams.

CO 3: Students will analyse equilibrium conditions under the effect of the external forces acting on the rigid and to simplify different problems using the basic principles of mechanics.

Semester- IV

Paper: Sequences and Series

CO 1: Students will learn the concepts of sequences, their types i.e., finite, infinite, bounded, monotonic, convergent, divergent sequence etc.

CO 2: Students will understand the concept of infinite series, sequence of partial sums, and their convergence/divergence using concepts of sequences, sum of convergent series.

CO 3: Students will learn various tests like p-series test, comparison tests, alternating series test, root test, ratio test to check the convergence or divergence of sequences and series.

Semester- IV

Paper: Special Functions and Integral Transform

CO 1: Students will learn to analyse the properties of special functions by their integral representations.

CO 2: Students will learn the concepts of solving different equations by the properties of Fourier Transform, Laplace Transform.

CO 3: Students will determine the properties of Legendre's polynomial which may be solved by application of special functions.

Semester- IV

Paper: Programming in C & Numerical Methods

CO 1: Students will be able to learn effective usage of arrays, structures, functions, pointers etc.

CO2: Students will study different numerical methods to solve algebraic, transcendental equation, linear system of equations.

CO 3: Students will learn practical knowledge of C to apply it to learn the solution of various equations.

Semester- V

Paper: Real Analysis

CO 1: Students will understand the concepts of real numbers, least upper bounds, greatest lower bounds, countable and uncountable sets, limit inferior, superior and limit of sequences.

CO2: Students will learn metric spaces, open, closed, connected, bounded, totally bounded or compact sets in metric spaces.

CO 3: Students will learn continuity, discontinuity, uniform continuity of functions in metric spaces.

Semester- V

Paper: Groups and Rings

CO 1: Students will understand different algebraic properties in different sets and identify sets under binary operation is group or not, abelian group, subgroups fundamentals theorem of group etc.

CO 2: Students will learn the concepts of rings, fields, unique factorization domain, integral domains and their various properties.

CO 3: Students will study permutation group, symmetries, products and various operations of cycles.

Semester- V

Paper: Numerical Analysis

CO 1: To understand, theoretical and practical aspects of the use of numerical analysis that will be used in the field of sciences and in engineering.

CO 2: Students will learn various methods of numerical integration approximation, differentiation, numerical solution of ordinary differential equations.

CO 3: Student will learn methods of solution of equation, matrix inversion, calculation of Eigen values and Eigen vectors and will be able to find the numerical approximations and error estimation in a range of problems.

CO 4: Students will learn to write codes in C language efficiently and skilfully to demonstrate numerical methods.

Semester- V

Paper: Applications of Mathematics in Finance

CO 1: Student will learn about Financial Management.

CO 2: Students will understand difference between risk, speculation and Gambling and will be able to learn Time Value of Money, Annuities and its kind.

CO 3: Students will learn about return as Internal Rate of Return (IRR) and Numerical Methods to calculate IRR. Also, they will learn about types and calculation of risk.

Semester- V

Paper: Probability Theory

CO 1: Students will learn about Probability

CO 2: Students will understand about random variable

CO 3: Students will learn about Discrete distribution and computing expectation by conditioning.

Semester- V

Paper: Principles of Computer Science- I

CO 1: Students will learn about data storage, binary system, communication errors

CO 2: Students will understand about Data manipulation

CO 3: Students will learn about operating systems, Network & Algorithms

Semester- VI

Paper: Real and Complex Analysis

CO 1: Students will learn to visualize complex numbers as points of \mathbb{R}^2 and stereographic projection of complex plane in Riemann sphere.

CO 2: Students will understand the concept of complex functions, analytic functions, Cauchy-Riemann equations and results of harmonic functions and their properties.

CO 3: Students will understand Jacobians, Beta, Gamma functions, double and triple integral, Fourier series etc.

Semester- VI

Paper: Linear Algebra

CO 1: Students will learn algebraic and geometric representation of vectors in \mathbb{R}^n and their various operations in matrix algebra, vector spaces etc.

CO 2: Students will understand to determine rank, determine Eigen values, diagonalization, orthogonality and orthonormality of vectors.

CO 3: Students will learn dimension, basis of vector space, matrix representing a linear transformation under a given basis and will determine how the matrix changes if the basis is changed.

Semester- VI

Paper: Dynamics

CO 1: Students will be able to draw free body diagram for a particle or for a rigid body in plane motion, will understand the concepts of mass, velocity, acceleration, force, work and energy etc.

CO 2: Students will learn to analyse the general motion of rigid body on smooth and rough planes.

CO 3: Students will learn Kepler's laws of planetary motion and will be able to solve various problems of applied physics and mechanical engineering.

Semester- VI

Paper: Optimization

CO 1: Students will learn about functions of random variables.

CO 2: Students will understand linear programming problems and their graphical solution.

CO 3: Students will learn about some basic properties of convex sets, convex functions, concave functions, simplex method, the two-phase method and Charne's M-technique.

Semester- VI

Paper: Hydrostatic

CO 1: Students will learn about pressure equation, Types of fluids and condition of equilibrium.

CO 2: Students will understand about fluid at rest under action of gravity, fluid pressure on plane surfaces

CO 3: Students will learn about equilibrium of floating bodies, curves and surfaces of buoyancy.

Semester- VI

Paper: Principles of Computer Science-II

CO 1: Students will Learn about development tools and techniques, Data Structures, Object Oriented Programming

CO 2: Students will understand about programming languages & software engineering

CO3: Students will learn about data base structure and Artificial intelligence.

Program Outcome For Bachelor of Commerce (PO)

The Bachelor of Commerce program is carefully designed to provide graduates with a comprehensive understanding of various facets of commerce and business. This program equips students to thrive in today's dynamic and competitive global business landscape. Upon successful completion of the program, students will be able to demonstrate the following program outcomes:

PO1. Graduates will possess a strong foundational knowledge of key business disciplines, including accounting, finance, marketing, management, economics, and business law. This knowledge will enable them to effectively analyse and address complex business challenges.

PO2. Graduates will be adept at critical thinking and problem-solving, allowing them to identify, evaluate, and propose effective solutions to intricate business problems and opportunities.

PO3. Graduates will excel in written and verbal communication, enabling them to convey complex business concepts and information clearly and persuasively to diverse audiences.

PO4. Graduates will demonstrate a keen understanding of ethical principles and social responsibility in business practices. They will consistently make ethical decisions, considering their impact on society and stakeholders.

PO5. Graduates will possess a global perspective, comprehending the complexities of international business, cultural diversity, and the interconnected nature of the global economy.

PO6. Graduates will be proficient in utilizing modern information technology tools and systems to support business operations, conduct data analysis, and make informed decisions.

PO7. Graduates will showcase effective teamwork abilities, including collaboration and leadership, enabling them to work harmoniously in diverse teams and lead them towards achieving common objectives.

PO8. Graduates will be adaptable to change and committed to lifelong learning, continuously updating their knowledge and skills to remain current in the ever-evolving field of commerce and business.

PO9. Graduates will be well-prepared with the knowledge and mindset to foster entrepreneurship and innovation, both within established organizations and as potential entrepreneurs themselves.

PO10. Graduates will be ready for successful careers in a wide range of business sectors and possess the skills necessary for continuous professional growth and advancement.

PO11. Graduates will have the capability to conduct research, gather and analyse data, and apply empirical methods to support decision-making and contribute to the body of knowledge in commerce and related fields.

PO12. Graduates will recognize the significance of community engagement and corporate social responsibility, actively participating in and contributing to their communities.

PO13. Graduates will understand the environmental impact of business activities and consider sustainability principles in their decision-making processes.

PO14. Graduates will be well-versed in legal and regulatory frameworks relevant to business operations, ensuring ethical and legal compliance.

PO15. Graduates will exhibit cultural sensitivity and respect for diversity, both in the workplace and in international business settings.

Program Specific Outcomes for Bachelor of Commerce (PSO)

PSO1. Graduates would have a strong foundational knowledge of key commerce concepts, including accounting, economics, finance, and business management.

PSO2. Develop a deep understanding of financial principles, including budgeting, investment, and financial planning.

PSO3. Gain an understanding of ethical principles and values in business and commerce.

PSO4. Enhance oral and written communication skills, which are essential for effective business communication.

PSO5. Develop the ability to analyse and interpret financial data, market trends, and economic indicators.

PSO6. Acquire problem-solving skills to address real-world business challenges.

PSO7. Gain proficiency in using relevant software and technology for business purposes.

PSO8. Develop the ability to conduct research and gather data for business analysis and decision-making.

PSO9. Learn how to work effectively in teams and collaborate with colleagues to achieve common goals.

PSO10. Be prepared to adapt to changes in the business environment and keep up with evolving industry trends.

PSO11. Understand the basics of entrepreneurship, including starting and managing a business.

PSO12. Develop an awareness of global business practices and international trade.

PSO13. Gain a basic understanding of business and commercial law.

PSO14. Develop leadership qualities and the ability to take on leadership roles in various contexts.

Course Outcomes (CO)
Name of Program- Bachelor of Commerce

Course Outcomes (COs) of Economics

B.Com. Semester – I

Paper: Indian Economy-1

CO 1: To understand the characteristics and indicators of Indian economy

CO 2: To know the institutional structure of agriculture and issues of food security in Indian economy

CO 3: Understanding the India's population growth, its reasons and various theory of population growth.

CO 4: To attain in-depth understanding of the burning issues in Indian agriculture including land reforms, Agricultural Marketing and Agricultural Price Policy

B.Com. Semester – II

Paper: Indian Economy-II

CO 1: To understand the concept of agricultural, industrial and service sectors of Indian economy

CO 2: To become familiar with the concepts of economic growth, economic development, sustainable development

CO 3: To understand the concept of international trade and EXIM Policy.

CO 4: To Understand the Concept of Monetary Policy, fiscal Policy and economic Planning in Indian Economy

Course Outcomes (COs) of Economics

B.Com. Semester I

Paper: Elements of Business Mathematics- I

Upon completion of Course, Students will be able to:

CO 1: Understand the definitions of Arithmetic & geometric progression.

CO 2: Find simple derivative of different functions & rules of differentiation.

CO 3: Calculate revenue and profit, learn about matrix & their properties

CO 4: Understand the concept of Compound Interests, time value money, present value and future value and various types of annuities.

B.Com. Semester II

Paper: Elements of Business Mathematics- II

Upon completion of Course, Students will be able to:

CO 1: Learn permutations and combinations, binomial theorem.

CO 2: Understand linear inequalities, there a graphical solution.

CO 3: Learn linear programming, data, representation and interpretation, limitation of diagrams and graphs.

Program Outcome For Bachelor of Commerce (Hons.)

Upon successful completion of the program

PO1. Graduates will demonstrate a deep understanding of core business concepts, theories, and practices, including economics, finance, accounting, marketing, management, and business law.

PO2. Graduates will possess strong analytical and critical thinking skills, enabling them to evaluate complex business problems, make informed decisions, and develop innovative solutions.

PO3. Graduates will communicate effectively in written and oral forms, both within the business context and with diverse stakeholders, demonstrating clarity, professionalism, and adaptability in their communication style.

PO4. Graduates will exhibit a strong sense of ethical and social responsibility, applying moral principles to business decisions and considering the broader societal impact of their actions.

PO5. Graduates will appreciate the global nature of business and exhibit an awareness of international markets, cultures, and trends, allowing them to function effectively in a globalized business environment.

PO6. Graduates will be equipped with entrepreneurial skills and an innovative mindset, capable of identifying opportunities, creating new ventures, and driving innovation within existing organizations.

PO7. Graduates will demonstrate proficiency in financial analysis, budgeting, and financial management, enabling them to contribute effectively to financial decision-making in various business contexts.

PO8. Graduates will excel in both teamwork and leadership roles, showing the ability to collaborate effectively with diverse teams and inspire others to achieve common goals.

PO9. Graduates will be proficient in conducting business research, collecting and analyzing data, and using evidence-based insights to support business strategies and decision-making.

PO10. Graduates will be adaptable to changing business environments and committed to lifelong learning, continuously updating their skills and knowledge to stay relevant in their careers.

PO11. Graduates will possess strong information technology skills, allowing them to leverage technology for data analysis, information management, and digital marketing in a business context.

PO12. Graduates will exhibit a strong work ethic, professionalism, and a commitment to delivering high-quality results, fostering a positive reputation in the business community.

Program Specific Outcome For Bachelor of Commerce (Hons.)

PSO1.Develop a comprehensive and in-depth understanding of the chosen specialization within commerce, such as accounting, finance, marketing, or economics.

PSO2.Acquire advanced research and analytical skills to conduct in-depth studies, analyze complex data, and make informed decisions.

PSO3.Cultivate critical thinking abilities to evaluate and solve complex business problems.

PSO4.Attain a high level of proficiency in the specialized area, including advanced knowledge of theories, concepts, and practices.

PSO5.Enhance oral and written communication skills, as well as the ability to present research findings and complex ideas effectively.

PSO6.Develop the capacity to conduct independent research and study, including the completion of a research thesis or project.

PSO7.Understand and apply ethical principles and practices in the specialized field of study.

PSO8.Gain advanced quantitative and statistical skills for data analysis and financial modelling, if applicable to the chosen specialization.

PSO9.Acquire skills and knowledge that are directly applicable to the industry or profession associated with the chosen specialization.

PSO10.Develop leadership and management skills relevant to the specialization, such as financial management, marketing strategy, or human resource management.

PSO11.Explore interdisciplinary connections within the field of commerce and the chosen specialization.

PSO12. Develop an understanding of global business practices and international aspects related to the specialization.

PSO13.Prepare for professional certifications or qualifications related to the chosen specialization, if applicable.

PSO14.Enhance problem-solving skills by addressing complex issues and challenges within the specialized field.

PSO15.Cultivate a commitment to lifelong learning and staying updated with industry trends and developments.

Program Outcome for PG Programs (PO)

Program Outcome For Master of Arts in History:

Upon successful completion of the Master of Arts (M.A.) program in History, graduates will have achieved the following program outcome:

PO1. Mastery of Historical Knowledge: Graduates will demonstrate a deep and comprehensive understanding of historical events, themes, and trends across different periods and regions, including the ability to critically analyse and interpret historical sources.

PO2. Research and Critical Thinking: Graduates will possess advanced research skills, including the ability to formulate research questions, locate and evaluate primary and secondary sources, and construct well-structured and evidence-based historical arguments. They will exhibit strong critical thinking skills in historical analysis.

PO3. Specialization Proficiency: Graduates will have the capacity to specialize in a particular historical field, topic, or region of their choice, and will be able to engage in original research and contribute to the advancement of knowledge within that specialization.

PO4. Effective Communication: Graduates will be adept at communicating historical knowledge and research findings effectively through various mediums, including written reports, oral presentations, and academic publications, conforming to academic standards of citation and referencing.

PO5. Interdisciplinary Perspective: Graduates will appreciate the interdisciplinary nature of historical studies, recognizing how history intersects with other fields such as sociology, politics, economics, and culture. They will apply historical insights to contemporary issues and debates.

PO6. Ethical Awareness: Graduates will demonstrate ethical awareness and sensitivity in their historical research, including the responsible handling of sensitive historical topics and a commitment to ethical research practices.

PO7. Career Opportunities: Graduates will be well-prepared for a diverse range of career opportunities, including but not limited to:

- Academic careers in teaching and research at universities and colleges.
- Positions in public history institutions such as museums, archives, and heritage organizations.
- Roles in government agencies, think tanks, and policy analysis, drawing on their research and analytical skills.
- Opportunities in journalism and media, where their historical research can inform reporting and storytelling.
- Roles in the private sector, including research and analysis positions, where their critical thinking and communication skills are highly valued.
- Consulting and advisory roles in areas such as cultural resource management and historic preservation.

PO8. Historical Contextualization: Graduates will be able to contextualize historical events and developments within broader social, cultural, political, and global contexts, fostering a nuanced understanding of historical causation.

PO9. Critical Engagement with Historiography: Graduates will engage critically with existing historiographical debates and demonstrate an awareness of different historical methodologies and interpretations.

PO10. Lifelong Learning: Graduates will recognize the importance of lifelong learning in the field of history and will be prepared to adapt to evolving historical scholarship and methodologies throughout their careers.

Program Specific Outcome For Master of Arts in History (PSO)

PSO1. Graduates should have an in-depth understanding of various historical periods, events, and themes, both within their chosen specialization and across different regions and time periods.

PSO2. Develop advanced research skills, including the ability to critically analyse primary and secondary sources, conduct archival research, and formulate research questions.

PSO3. Acquire the ability to critically interpret and evaluate historical evidence, narratives, and arguments.

PSO4. Understand the major historiographical debates and trends within the field of history and be able to situate their research within this context.

PSO5. Enhance oral and written communication skills to effectively present historical research and arguments to diverse audiences.

PSO6. Complete an original research thesis or project, demonstrating the ability to conduct independent historical research.

PSO7. Cultivate critical thinking abilities to assess historical sources and arguments, as well as to construct well-reasoned historical interpretations.

PSO8. Explore interdisciplinary connections between history and other fields, such as sociology, anthropology, literature, or political science.

PSO9. Apply ethical standards in historical research, including proper citation and handling of historical sources.

PSO10. Develop an understanding of global historical perspectives and the ability to compare and contrast historical developments across different regions and cultures.

PSO11. If pursuing a career in education, gain knowledge of effective teaching strategies and curriculum development in history.

PSO12. Engage in public history projects or outreach initiatives to communicate historical knowledge to the broader community.

PSO13. Prepare for further studies, careers in academia, research, museum curation, archival work, or related fields.

PSO14. Situate historical events and developments within their broader social, political, economic, and cultural contexts.

PSO15. Learn to work collaboratively with colleagues on historical research projects and initiatives.

PSO16. Foster a sense of global citizenship by understanding the interconnectedness of historical events and their impact on contemporary society.

Course Outcome For Master of Arts in History (PSO)

M.A. Semester 1st

Paper: Ancient Societies.

CO 1 Students have understood the stone Age and chalcolithic cultures. They will be able to understand Palaeolithic, Mesolithic and Neolithic cultures.

CO 2 Students have understood the bronze age civilization in Mesopotamia and Egypt

CO 3 Students will be able to understand the Harappan Civilization origin and decline

CO 4 Students will be able to understand various civilization like Chinese Civilization, Mayan Civilization and Inka civilization

M.A. 1st year

Paper- Medieval Societies (India)

CO 1. Students will be able to know about Transition from Ancient to Medieval society and advents of Turkish, Structure of Medieval State in Sultanate and Mughal and theories of decline of Mughal Empire

CO 2. Students will be able to know about different system like Iqtadarisystem ,MansabdariJagirdari system and Zamindari policy of Mughals

CO 3. Students will be able to know about Economic Development: Urbanization in Sultanate,Technological changes in Sultanate and village community of Sultanate and Mughal period

CO 4. Students will be able to know about Bhakti moments, Sufi movement and Structure of Society in Sultanate and Mughal period

M.A. (Previous year)

Paper- History of Haryana earliest time to Sultanate

CO 1. Students will be able to know about sources of Ancient History of Haryana, The Stone Age, Harappan Civilization and its features, Vedic civilization and traditional history of kurus

CO 2. Students will be able to know about origin and development of Monarchy, History of battle of Mahabharata, History of Yaudheyas, Pushabhutis and Agras and Kunindas

CO 3. Students will be able to know about Rise of new powers: GurjaraPratiharas ,Tomars, Chahmanas and Battle of Tarain and their impact

CO 4. Students will be able to know about sources of Medieval History of Haryana, Haryana on the eve of Turkish Invations, Revolts ofMeos and Rajput and Provincial Administration of sultanate Period

MA first year first semester

Paper: Modern World

CO. 1 students will be able to explain the rise of modern world renaissance reformation and age of mercantilism and the beginnings of capitalism

CO. 2 students will be able to explain the agriculture revolution in western Europe and development of Science and Technology

CO. 3 students will be able to explain the development of capitalism and development of imperialism

CO. 4 students will be able to explain the stages of colonialism in India

MA first year first semester

Paper: Science and technology in pre-colonial India

CO. 1 1. students will be able to explain the meaning scope importance and sources of history of Science and Technology in India

2. Students will be able to explain the Prehistoric period and Vedic period in Science and Technology

CO. 2. students will be able to explain the history of Science and Technology from a d first 2 ad and developments in Astronomy and developments in medicine and surgery

CO. 3. students will be able to explain the scientific ideas in Arab thought and its reception in India and new development: Persian wheel, gun powder, textiles and Bridge building etc.

CO. 4 students will be able to explain the development in medical knowledge and astronomy in the Arab world and special reference of sawai Jaisingh

M.A.- Semester 1st

Paper - State in india (Earliest Times to Sultanate)

Co1. Students will be able to understand different Theories of the formation of the state, Proto state and Chiefdoms of Later Vedic times.

Co2. Students will be able to describe the central and Provincial Administration of the Mauryan and the Gupta Empire.

Co3. Students will be able to understand the Islamic Theory, Ulemas and Nature of the state under the sultans.

Co4. Students will be able to understand the Central, Provincial and Military Administration under the sultans

MA first year (2nd sem.)

Paper: Ancient society

CO. 1 students will be able to explain the Iron Age cultures in India and megalithic culture and Painted grey ware and Second Urbanisation

CO. 2 students will be able to explain the Iron Age cultures in Greek and Iron Age cultures in Rome

CO. 3 students will be able to explain the Indian state and Society(Vedic times to Gupta period)

CO. 4 students will be able to explain the Indian state and Society in post Gupta period :Urban decay in India, Decline of trade, origin and development of feudalism in India ,Nature of Indian Feudalism

M.A previous year (second semester)

Paper medieval society

Co 1 Students will be able to know about Rise of Islam,socio- political background and rise of prophets Muhammad his life and teachings ,Evolution of Islamic state :Madina to Caliphate , Umayyad to Abbasid

Co 2. Sudents will be able to know about society under the Caliphate, economy under the caliphate and contribution of Arab civilization

Co 3 Students will be able to know about transition from ancient to medieval society, state and church ,church and Society , Rise of feudalism ,manorial system and serfdom

Co 4 Students will be able to know about Trade and commerce, Technology ,reformation , Renaissance

M.A. (Previous year 2nd sem)

Paper- History of Haryana (Mughals to 1947)

Co 1. Students will be able to know about first and second battle of Panipat ,Hemu's life and achievement ,revolts of satnamis, pragna administration ,land revenue system and irrigation system of Mughal period , Bhakti and Sufi movement

Co 2. Students will be able to know about Maratha incursion ,life of George Thomas ,Sikh intrusion,Sanatan Dharam sabha and development of education and literature

Co 3. Students will be able to know about revolts of 1857, Rise of nationalism ,political condition and unionist party and Rise of sir chhotu Ram

Co 4. Students will be able to know about Gandhi movements like Non-cooperation movement, civil disobedience movement, Quit India Movement and prajamandal movement

MA first year (2nd sem.)

Paper: Modern world

CO. 1..... students will be able to explain the French Revolution, development of liberalism in Britain and rise of America

CO. 2..... students will be able to explain the socialist moment Russian Revolution 1917 Russia after Revolution, reaction in the west and theories of Nationalism in Italy ,Germany and Japan

CO. 3..... students will be able to explain the first world war and fascism in Italy, Nazism in Germany and Communist revolution in China -1949

CO. 4..... students will be able to explain the Second World War and cold war period

MA- previous second semester

Paper state in india (Mughals to modern time)

CO 1 Students will be able to know about the Nature of mughals state, Central Administrative and Provincial administrative.

CO 2. Students will be able to know about the jagirdari system, mansabdari system and zamindari system.

CO 3 Students will be able to know about the political economy, state apparatus and instruments of legitimization.

CO 4 Students will be able to know about constitutional continuity, constitutional change and Vision of modern India state :nationalist, communalist and Communist.

Class: MA final third semester

Paper: Histography, concept, methods and tools 1

CO. 1 students will be able to explain the history Definition and scope and some major thinkers on history the khaldoon G. W. H Hignal, Karl Marx and Fernand Braudel

CO. 2 students will be able to explain the sources and their evolution and methodology

CO. 3 students will be able to explain the historical writing of early tradition and medieval traditions

CO. 4 students will be able to explain the history and other disciplines

MA final third semester

Paper- Political History of India

Co 1. One student will be able to know sources of modern Indian history decline of Mughal empire and price of successor state

Co 2. Students will be able to know about different battles like battle of Plassey, battle of Buxar, Political Statement of 1765, Anglo Mysore relations (1767 to 1799), Anglo Maratha relations (1775 to 1818)

Co 3. Students will be able to know diplomatic means of British Expansion: Subsidiary Alliance System, Doctrine of lapse, Conquest of Sindh, Annexation of Punjab

Co 4. Students will be able to know about discontent and disaffection during companies' rule and revolt of 1857 and beyond natural frontiers Nepal, Burma

MA final third semester

Paper- Society and Culture of India (1757 to 1947)

Co 1. Students will be able to know about pre-British Indian society: Rural society, Urban society and their features

Co 2. Students will be able to know about British and Indian society: Christian Missionaries British social policy, Approaches of Evangelicalist and Orientalist and Growth of New Education Wood Dispatch and after math and its role in socio- political consciousness

Co 3. Students will be able to know about Rise and Growth of Press and its role in socio-political consciousness and knowledge about Hindi and Bengali literature and their role in Indian cultural Renaissance

Co 4. Students will be able to know about social reforms like Sati, Infanticide, Widow Remarriage Movement, Age of consent bill Agitation and status of women ,their Property Rights and their social- political participation

M.A- Semester 3rd.

Paper - Indian National Movement 1885-1919.

Co1. Students will be able to understand rise and growth of Indian Nationalism and INC. They will be able to answer how socio- religious movement influenced the national Consciousness.

Co2. Students will be able to answer questions pertaining to Indian national Congress and its different phase (moderates, extremists and Revolutionary). They will be able to describe the significance of Swadesh movement.

Co3. Student will be able to identify other important movement. they will be able to understand the Establishment of All India Muslim League and Lucknow Pact.

Co4 Students will be understanding the rise and consequences of communalism and the process of transfer of power. They will be able to understand constitutional development and reforms (1861-1919).

Class MA final year 3rd semester

Paper: Economic history of India 1757 - 1947

CO. 1 students will be able to explain the pre- colonial Indian economy and disintegration of the pre- colonial economy

CO. 2. 1. students will be able to explain the debate about colonialism and its impact on Indian economy

2... students will be able to explain the population during the colonial period and national and per -capita income

CO. 3..... students will be able to explain the rural economic colonial land revenue commercialisation of agriculture and rural indebtedness and peasant revolt

CO. 4..... students will be able to explain the irrigation system and change in it during the colonial period

2. Students will be able to explain the finnage and the colonial government

M.A. Semester 3rd

Paper: Constitutional and Administrative History (1858- 1950)

Co1. Students will be able to introduction the constitutional development (India act,1858, Indian council Act 1861

Co2. Students will be able to explain the Indian councils act 1892,1909,1919

CO3. Students have understood the constitutional development (1919_ 1935) and provincial autonomy and its functioning

CO4. Students will be able to explain Cripps mission 1942, Cabinet mission, we vell plan and Mountbatten plan and The India Independence act 1947

Class: MA final (forth semester)

Paper: Histography, concept, methods and tools 1

CO. 1 Students will be able to explain the modern approaches in history positivist, Classical Marxist, later Marxist Gender in history, Environment in history and Annals

CO. 2 Students will be able to explain the colonial history writing, Nationalist history writing, communist history writing, Marxists history writing, Cambridge school and subaltern school

CO. 3. students will be able to explain the major debates in history: Rise of capitalism, Rise of feudalism, Origin of imperialism, Origin of nationalism

CO. 4 students will be able to explain the Making a research proposals : choice of subject ,survey of literature ,Formulation of hypothesis ,identification of sources, Description of research methodology ,Ellaboration of research proposal

M.A. (final year 4th sem)

Paper- Political History of India

Co 1. Students will be able to know about district administration, provincial administration, Central administration and arms of the state: Army , law , police, civil services

Co 2. Students will be able to know about policy of Ring Fence, policy of subordinate isolation ,policy of subordinate union , first Afghan war, policy of masterly inactivity and second Afghan war

Co 3. Students will be able to know about foreign policy of colonial state and foreign affairs like N.W. frontier policy ,Persia and Persian gulf policy, Tibet policy

Co 4. Students will be able to know about problem of princely states and integration with India, Vision of New India and India and the world Non alignment Movement

M. A. (Final year 4th sem)

Paper- Indian National Movement(1920-1947)

Co 1. Students will be able to know about the rise of gandhi and non cooperation movement, swarajists, civil disobedience movement, Communal award, round table conference and Government of India Act 1935.

Co 2. Students will be able to know about the last phase of Revolutionary movement,formation of H.R.A-H.S.R.A, Indian National Congress, Socialist movement and forward bloc-I.N.C.

Co 3. Students will be able to know about the quit Indian movement, state people's conference and Praja mandal movement in various Indian States.

Co 4. Students will be able to know about the Communalism at its Zenith, demands for Pakistan, growth of Muslim League, and cripps mission-1942,Cabinet mission-1946,Mount batten plan-1947

M. A. (Final year 4th sem)

Paper- Society and Culture of India (1757 to 1947)

Co 1. Students will be able to know about Rise of new class ,role of middle class in modernisation ,concept and process of tradition and modernity

Co 2. Students will be able to know about causes and nature of Indian cultural Renaissance ,Raja Ram Mohan Rai and Brahma samaj ,ramkrishan mission and theosophical society

Co 3. Students will be able to know about Wahabi movement, Arya samaj movemnt and sir Syed Ahmed Khanand Aligarh movement

Co 4. Students will be able to know about rise and growth of depressed class movement, problem of untouchability and factors for its amelioration ,impact of British rule on Indian society

Class MA final year (4th semester)

Paper: Economic history of India 1757 - 1947

CO. 1 students will be able to explain the foreign trade in colonial India with reference to :Mercantilism ,Industrial capitalism, Finance capitalism, price moments and tariff policy

CO. 2 students will be able to explain the urban market and growth decline of urban centres in colonial India, industries in colonial India ,Artisans and small scale industry especially handlooms

CO. 3. students will be able to explain the Theory about the Drain of wealth ,Tax structure public expenditure and government revenues under the Crown ,banking system

CO. 4 students will be able to explain the Environment forest and colonial state and Labour and the trade union movement, consequences of Colonial rule on Indian economy

Program Outcome For Master of Science in Mathematics

Upon successful completion of the Master of Science program in Mathematics, graduates will have achieved the following program outcome

PO1. Advanced Mathematical Knowledge: Graduates will demonstrate a profound understanding of advanced mathematical theories, concepts, and techniques, spanning various branches of mathematics, including algebra, analysis, topology, and numerical methods.

PO2. Research and Problem-Solving Proficiency: Graduates will possess advanced research and problem-solving skills, enabling them to formulate and investigate complex mathematical problems, contribute to mathematical research, and develop novel solutions.

PO3. Mathematical Modelling Competence: Graduates will be adept at mathematical modelling, capable of applying mathematical principles to real-world problems in fields such as physics, engineering, economics, and biology, and deriving valuable insights from mathematical models.

PO4. Computational and Analytical Expertise: Graduates will have strong computational abilities, including proficiency in mathematical software, programming languages, and data analysis tools, which they can employ for numerical simulations and data-driven research.

PO5. Effective Communication: Graduates will be skilled communicators, able to present mathematical concepts and findings coherently and persuasively in written and oral formats, making complex ideas accessible to diverse audiences.

PO6. Interdisciplinary Collaboration: Graduates will recognize the interdisciplinary nature of mathematical applications and collaborate effectively with professionals in other fields, leveraging mathematics to address complex challenges in diverse domains.

PO7. Diverse Career Opportunities: Graduates will be well-prepared for a wide range of career paths, including but not limited to:

- Academic positions as mathematics educators and researchers at universities and colleges.
- Research and development roles in industries such as technology, finance, and engineering, where mathematical expertise is in high demand.
- Data science, machine learning, and artificial intelligence careers, utilizing their mathematical and computational skills.
- Government and policy research positions, where mathematical analysis informs decision-making.
- Consulting and advisory roles in areas such as financial modelling, risk assessment, and operations research.
- Entrepreneurship and innovation, applying mathematical insights to create solutions in emerging fields.

PO8. Ethical Conduct: Graduates will uphold the highest ethical standards in mathematical research and applications, conducting themselves with integrity and responsibility in all professional activities.

PO9. Continuous Learning and Adaptability: Graduates will embrace lifelong learning, staying updated with emerging mathematical developments and adapting their knowledge and skills to address evolving mathematical challenges and opportunities.

PO10. Contribution to Advancement of Mathematics: Graduates will actively contribute to the advancement of mathematical knowledge through original research, publications, presentations, and participation in mathematical communities, thereby enriching the global mathematical landscape.

Program Specific Outcome For Master of Science in Mathematics

PSO1. Graduates should have a deep and comprehensive understanding of advanced mathematical concepts and theories across various branches of mathematics.

PSO2. Develop advanced research skills, including the ability to formulate research questions, design mathematical experiments, and conduct original research.

PSO3. Acquire advanced problem-solving skills and techniques to address complex mathematical problems and proofs.

PSO4. Apply mathematical modelling to real-world situations and demonstrate the ability to analyse, interpret, and solve mathematical models.

PSO5. Master abstract algebra, real analysis, and complex analysis, which are foundational areas of advanced mathematics.

PSO6. Gain proficiency in statistical analysis, computational mathematics, and the use of mathematical software and tools.

PSO7. Enhance the ability to communicate mathematical concepts, proofs, and research findings effectively in both written and oral forms.

PSO8. Explore interdisciplinary connections and apply mathematical concepts to various fields such as physics, engineering, economics, and computer science.

PSO9. Apply ethical principles in mathematical research and professional interactions.

PSO10. Depending on the program's specialization, attain expertise in advanced mathematical topics such as number theory, topology, differential equations, or mathematical logic.

PSO11. If pursuing a career in education, gain knowledge of effective teaching strategies and curriculum development in mathematics.

PSO12. Engage in mathematical outreach activities to promote mathematical literacy and interest in the community.

PSO13. Learn to work collaboratively with colleagues on mathematical research projects and initiatives.

PSO14. Develop an awareness of international mathematical research and collaborations.

PSO15. Prepare for postgraduate studies, research, or academic careers in mathematics or related fields.

PSO16. Acquire skills and knowledge that are directly applicable to careers in academia, research, finance, data science, or other mathematical professions.

PSO17. Apply advanced quantitative analysis techniques to solve complex problems in various industries.

PSO18. Understand the balance between theoretical mathematics and its practical applications in various sectors.

PSO19. Cultivate innovative thinking and problem-solving abilities to tackle new and challenging mathematical problems.

Course Outcome For Master of Science in Mathematics

Semester- I

Paper: Office Automation Tools (MM-20-101)

CO 1: Students will learn about word processing software for document writing

CO 2: Students will understand about Spreadsheet designing and windows operating systems

CO 3: Students will learn about presentation designing software and their applications.

Semester- I

Paper: Abstract Algebra-I (MM-20-102)

CO 1: Students will understand the first approach to the subject of Algebra which is one of the basic pillars of modern mathematics

CO 2: Students will study certain structure called solvable and nilpotent group with some related structure

CO 3: Students will understand fields in detail with a focus on Galois theory

Semester- I

Paper: Elementary Topology (MM-20-103)

CO 1: Students will learn the concept of topological space and continuous functions

CO 2: Students will understand the concept of homeomorphism and topological invariants

CO 3: Students will have in-depth knowledge of separation axioms and their properties

Semester- I

Paper: Real Analysis (MM-20-104)

CO 1: Students will understand about metric space, sequence & their convergence in metric space, compactness and continuity on compact set.

CO 2: Students will learn about point-wise and uniform convergence of sequence and series of functions.

CO 3: Students will be familiar with chain rule, partial derivatives and concept of derivation in an open Subset of \mathbb{R}^n .

Semester- I

Paper: Number Theory (MM-20-111)

CO 1: Students will learn about well ordering principle, divisibility, division algorithm, Fermat numbers, Euler's function and its properties.

CO 2: Students will understand about Linear Diophantine equation, Pythagorean triangles and assorted examples.

CO3: Students will be familiar with Farey Sequences, rational approximation, Hurwitz theorem & Ternary quadratic forms.

Semester- I

Paper: Algebraic Coding Theory (MM-20-112)

CO 1: Students will understand about BlockCodes, group codes, polynomial codes and matrix codes

CO 2: Students will learn about construction of finite fields, primitive polynomials over finite fields.

CO 3: Students will understand about hamming codes, cyclic codes, generator and check polynomial of a cyclic code.

Semester- II

Paper: Object Oriented Programming using C++ (MM-20-201)

CO 1: Students will understand the concept of mapping real objects into programming constructed

CO 2: Student will get the Idea of Templates

CO 3: Students will know about object-oriented techniques like inheritance, polymorphism.

Semester- II

Paper: Abstract Algebra -II (MM-20-202)

CO 1: Students will learn about modules and its properties.

CO 2: Students will understand the difference between free and semi simple modules

CO 3: Students will learn about Noetherian & Artinian Modules and canonical forms of Linear

Transformations.

Semester- II

Paper: Ordinary Differential Equations - I (MM-20-203)

CO 1: Students will understand the concept of existence and uniqueness theory of solution of an ordinary differential equation.

CO 2: Students will learn to apply differential equations to variety of problems in diversified fields of life.

CO 3: Students will learn use of differential equations for modelling and solving real-life problems.

Semester- II

Paper: Measure and Integration Theory (MM-20-204)

CO 1: Students will learn the shortcomings of Riemann integral and benefits of Lebesgue integral.

CO 2: Students will understand the concept of measure and Lebesgue measure

CO 3: Student will learn about Lebesgue integral of a bounded function over a set of finite measure and its properties

Semester- II

Paper: Advanced Number Theory (MM-20-211)

CO 1: Students will understand continued fraction, periodic, simple & infinite continued fraction

CO 2: Students will learn about Pell's equation, partitions, Ferrers graphs, Euler's formula and Quadratic residues

CO 3: Students will learn about Division algorithm of polynomials and factor theorem

Semester- II

Paper: Fuzzy Set Theory (MM-20-213)

CO 1: Students will understand the concept of convex fuzzy sets and standard fuzzy set operations

CO 2: Students will learn about decomposition theorem of fuzzy sets & extension principle for fuzzy sets

CO 3: Students will learn about equilibrium of a fuzzy complement, algebraic product and conversion of generators.

Semester- II

Paper: General History and Basis of Indian Music-1(OEM 426)

CO 1: It will develop confidence to perform as a musically mature and sensible artist

CO 2: It will increase ability of students to perform various classical and light music forms

CO 3: It will develop interest of studentstowards classical music.

Semester- III

Paper: Functional Analysis (MM-20-301)

CO 1: Students will learn about completeness in normed linear spaces, bounded linear transformations

CO 2: Students will understand Hilbert spaces, orthogonal complement and direct sums

CO 3: Students will learn about conjugate spaces,uniform boundedness principle and closed linearoperator.

Semester- III

Paper: Complex Analysis (MM-20-302)

CO 1: Students will understand Complex numbers and their geometrical interpretations

CO 2: Students will understand complex numbers as an extension of real numbers.

CO 3: Students will learn to represent the sum function of a power series as an analytic function.

Semester- III

Paper: Ordinary Differential Equations – II (MM-20-303)

CO 1: Students will learn about Riccati's equation, zero of a solution, Pruffer Transformation & Abel's formula

CO 2: Students will learn use of differential equations for modelling and solving real life problems.

CO 3: Students will understand the concept of Eigen values, Eigen function, green function and nonlinear differential systems

Semester- III

Paper: Project Work / Dissertation (MM-20-304)

CO 1: Students will learn how to start research and how to write a research paper and dissertation

CO 2: Students will learn about plagiarism

Semester- III

Paper: Algebraic Number Theory (MM-20-311)

CO 1: Students will understand aboutGaussian Integers, Eisenstein Integers, algebraic numbers and algebraic integers

CO 2: Students will learn about minimal polynomialof an algebraic integer & characterisation of algebraic integers.

CO 3: Students will learn about bilinear form and ideals in the ring of algebraic number field K.

Semester- III

Paper: Advanced Fuzzy Set Theory (MM-20-313)

CO 1: Students will learn about crisp and fuzzy relations, projections and cylindrical extensions, binary fuzzy relations.

CO 2: Students will learn to apply concept of Fuzzy measures, continuity from below and above & Semicontinuous fuzzy measures.

CO 3: Students will understand fuzzy sets and possibility theory, degree of compatibility & possibility, Fuzzy propositions, canonical forms and relation with possibility distribution function.

Semester- III

Paper: Yoga Science (YGQ1)

CO 1: It will Improve physical conditioning related to flexibility through participation in yoga.

CO 2: It will develop and maintain a personal yogapractice.

CO 3: The students would be able to demonstrate yoga in scientific way to improve positive health.

Semester- III

Paper: General History and Basics of Indian Music - 2 (OEM-436)

CO 1: It will enhance creativity and basic improvisation ability in students.

CO 2: It will develop interest towards classical music

CO 3: It will increase ability of students to perform various classical and light music forms.

Semester- IV

Paper: MATLAB (MM-20-401)

CO 1: Students will understand the software MATLAB

CO 2: Students will be able to perform basic mathematical operations on simple variables vector, matrices and complex numbers

CO 3: Students will learn to generate 2-D plots and will use and write script files (MATLAB programs)

Semester- IV

Paper: Integral Equations and Calculus of Variations(MM-20-402)

CO 1: Students will learn the concept of integral equations

CO 2: Students will understand the various methods to solve different types of integral equations

CO 3: Students will learn methods to solve various mathematical and physical problems using variational techniques.

Semester- IV

Paper: Discrete Mathematics (MM-20-403)

CO 1: Students will learn to express a logic sentence in terms of predicates, quantifiers and logicalconnectives

CO 2: Students will learn to apply the rules of inference and contradiction for proofs of various results

CO 3: Students will understand to use finite statemachines to model computer operations.

Semester- IV

Paper: Wavelet Analysis (MM-20-404)

CO 1: Students will learn the basic concepts of signals, systems and Haar spaces

CO 2: Students will understand about Fourier transform and wavelet transform of digital signals

CO 3: Students will learn applications of wavelets to the real-world problems.

Semester- IV

Paper: Advanced Algebraic Coding & Number Theory (MM-20-411)

CO 1: Students will understand about linear codes, generator matrices of linear codes, Hadamard transform, Diophantine equations, Minkowski's bound and Quadratic fields

CO 2: Students will learn about Maximum distance separable codes (MDS codes), Dual code of a MDS code

CO 3: Students will understand Equivalent fractional ideals & Ideal Class Group.

Semester- IV

Paper: Advanced Complex Analysis (MM- 20-413)

CO 1: Students will understand the concept of Gamma function and its properties

CO 2: Students will be familiar with Riemann Zeta function, Riemann functional equation with Mittag Leffler theorem

CO 3: Students will learn Harnack inequality, order of an entire function, green function, integral function & their factorization.

Program Outcome For Master of Commerce

PO1. Advanced Knowledge: Graduates will have a deep understanding of advanced concepts and theories in various areas of commerce, including finance, accounting, economics, and business management.

PO2. Research Skills: Graduates will be proficient in research methodologies, data analysis, and critical thinking, enabling them to conduct independent research in the field of commerce.

PO3. Communication Skills: Graduates will have strong written and oral communication skills, which are essential for presenting research findings, preparing reports, and effectively conveying complex financial and business information.

PO4. Problem Solving: Graduates will be equipped with problem-solving skills to analyze complex financial and business issues, propose solutions, and make informed decisions.

PO5. Ethical Awareness: Graduates will have a strong ethical foundation and be aware of the ethical considerations and responsibilities in commerce and finance.

PO6. Financial Analysis: Graduates will be able to perform financial analysis, interpret financial statements, and make financial forecasts.

PO7. Business Strategy: Graduates will understand business strategy and be able to contribute to strategic decision-making in organizations.

PO8. Global Perspective: Graduates will have a global perspective on commerce, understanding international trade, finance, and the impact of globalization on business.

PO9. Leadership and Management: Graduates will possess leadership and management skills necessary for supervisory or managerial roles in various sectors.

PO10. Adaptability: Graduates will be adaptable to changes in the business environment, including technological advancements and market dynamics.

PO11. Legal and Regulatory Knowledge: Graduates will have an understanding of commercial laws and regulations relevant to their field.

PO12. Entrepreneurship: Graduates may have the knowledge and skills to explore entrepreneurial opportunities and start their own businesses.

Program Specific Outcome For Master of Commerce

PSO1. Graduates should have an in-depth and advanced understanding of key subjects within commerce, such as accounting, finance, marketing, economics, and business management.

PSO2. Develop advanced accounting skills, including financial statement analysis, auditing, and complex financial reporting.

PSO3. Acquire proficiency in financial analysis, investment management, risk assessment, and financial planning.

PSO4. Master advanced marketing strategies, including market research, brand management, and marketing analytics.

PSO5. Understand advanced economic theories, models, and their applications to real-world economic issues.

PSO6. Develop strategic thinking and management skills to analyse business challenges and make informed decisions.

PSO7. Gain advanced research and analytical skills to conduct research projects, analyze data, and solve complex business problems.

PSO8. Enhance oral and written communication skills, especially in the context of business reports, presentations, and negotiations.

PSO9. Apply ethical principles and professional standards in business and commerce practices.

PSO10. Gain an understanding of business and commercial law, including contract law, corporate law, and regulatory compliance.

PSO11. Develop an awareness of global business practices, international trade, and the impact of globalization on commerce.

PSO12. Cultivate leadership qualities and the ability to make strategic business decisions.

PSO13. Explore concepts related to entrepreneurship, innovation, and business start-ups.

PSO14. Learn to work effectively in teams and collaborate with colleagues from diverse backgrounds.

PSO15. Familiarize with data analytics tools, information systems, and emerging technologies relevant to commerce.

PSO16. Master the preparation and interpretation of financial statements and business reports.

PSO17. Develop skills in strategic planning, including formulating business strategies, setting objectives, and evaluating performance.

PSO18. Understand the importance of customer relationship management and its role in business success.

PSO19. Prepare for careers in finance, accounting, marketing, management, or related fields, or pursue further studies and professional certifications.

PSO20. Acquire skills and knowledge that are directly applicable to specific industries or sectors.

Course Outcome For Master of Commerce

M.Com. (First Semester)

Paper: MCC-101 Principles of Management

CO 1. Demonstrate a general knowledge framework and understanding of key functions in management as applied in practice

CO 2. Obtain through elective index obtain through electives in depth knowledge and understanding in more specific Management related areas

CO 3. Apply basic principles of leadership and motivation

CO 4. Understanding various management theories.

M.Com. (First Semester)

Paper- MCC- 102 Management Accounting

CO 1. This course provides knowledge about the role of Management Accounting for managerial decision making

CO 2. To develop an understanding of the conceptual framework of the management Accounting

CO 3. To provide the knowledge in the management accounting techniques in business decision making

CO 4. This course create understanding about emerging issues like quality costing value chain analysis target costing and life cycle costing

M.Com. (First Semester)

Paper: MCC- 103 Managerial Economics

CO 1. Students will be able to understand the importance and scope of managerial economics and also able to differentiate between economics and managerial economics

CO 2. They understand the concept of demand its elasticity and importance of price income and cross elasticity of demand in strategic decision making

CO 3. This help students to understand price and output determination in short and long period in different market structure

CO 4. Derive the equilibrium condition for cost minimization and profit maximization

M.Com. (First Semester)

Paper: 104 Statistics and Operational Research

CO 1. To develop logical reasoning ability in decision making

CO 2. To bring out clear the importance of statistics in solving different research problems

CO 3. Apply the most widely quantitative techniques in business management

CO 4. The specific course will help the student to understand statistical method with a focus on its application in real business environment

M.Com. (First Semester)

Paper: MCF-105 Business Environment

CO 1. Students will be able to familiar with the nature of business environment and its components

CO 2. Student will be able to apply the techniques available for scanning and monitoring the environment

CO 3. Student will be able to understand the legal framework of various acts.

CO 4. Students will be able to analyse the economic policies related with industrial development.

M.Com. (First Semester)

Paper: MCOE-106 Business Communication

CO 1. Demonstrate the use of basic and advanced business writing skills

CO 2. Produce clear and concise written business documents

CO 3. Develop interpersonal communication skills that are required for social and business interactions

CO 4. Student will be able to learn how to write reports prepare synopsis and also resume.

M.Com. (Second Semester)

Paper: MCC-201 Organizational Behaviour

CO 1. It gives the basic concept of the organizational behaviour

CO 2. Develop the perceptual concept among the students and a technique of learning even it is so tough

CO 3. Develop the basic understanding of the individual behaviour itself to understand the personality of other and adopt it if it seemstoo good.

CO 4. They come to know the importance of the group and how to take decision as group.

M.Com. (Second Semester)

Paper: MCC-202 Research Methodology

CO 1. To identify meaning of research identification and formulation of research problem

CO 2. To understand Research Design and different type of sampling methods

CO 3. To identify the methods of data collection

CO 4. To apply report writing and drafting of report

M.Com. (Second Semester)

Paper: MCC- Marketing Management

CO 1. Student should be able to get introduced and understand the knowledge of marketing management with the need importance and process of marketing planning and control and answering their ability for the dynamic nature of marketing

CO 2. Attainment of organisational marketing goals

CO 3. To make aware the students about different types of consumer behaviour and different stages of product life cycle

CO 4. It helps in acquiring the knowledge about different promotion programs like advertising sales promotion personal selling publicity and Public Relations

M.Com. (Second Semester)

Paper: MCC-204 Financial Management

CO 1. This course stitches to manage the finance. It teaches the way to calculate the financial needsway to acquire as well as use the finance efficiently

CO 2. Student understand the technique of financial planning and forecasting

CO 3. It provides knowledge about capital budgeting decisions

CO 4. It creates understanding to manage the working capital and calculation of the cost of capital

M.Com. (Second Semester)

Paper: MCF- 205 Human Resource Management

CO 1. Build and understanding perspective and appreciation for HRD as discipline process and activity and come to know the competitive environment build an understanding perspective and appreciation for HRD as discipline process and activity and come to know the competitive environment

CO 2. Students come to know after completing this about the various aspects of the person as well as professional life and try to balance between these both.

CO 3. Develop the competency mapping skill self-develop the competency mapping skill self-period and subordinate appraisal skill

CO 4. Develop the sense of belongings for the organisation and various HRD issues.

M.Com. (Third Semester)

Paper: MCC-301 international business

CO 1. Student should be able to explain how different environment factor encountered in international market price.

CO 2. Applied the trade theories for an exchange theories regional trading bloc theory and their impact on economic welfare

CO 3. Students will learn about various International financial Institutions and their working

CO 4. It develops and understanding about the foreign exchange determination.

M.Com. (Third Semester)

Paper: MCC -302 Strategic Management

CO 1. To describe the role of strategic management and the strategic process

CO 2. To understand about the techniques to scan and environment and role of environment scanning in hurdle less strategic management of an organisation

CO 3. To understand the importance of strategy formulation and strategy implementation

CO 4. To understand and formulate different strategies at business and corporate level

CO 5. To analyse how organisations make decision in response to Rapid changes that occur due to the environmental changes

M.Com. (Third Semester)

Paper: MCC-303 Income Tax and Practices

CO 1. The students will be versed in the fundamental concepts of different aspects of income tax

CO 2. The students can understand Income Tax system properly and can get the knowledge of different tax provisions

CO 3. To give knowledge about submission of income tax return advance tax and tax deducted at source tax collection authorities under the income Tax Act 1961

M.Com. (Third Semester)

Paper: MCCM-304 Consumer Behaviour

CO 1. To highlight the importance of understanding consumer behaviour in marketing

CO 2. Outcomes to study the environment and individual influence on consumer

CO 3. To understand consumer behaviour in Indian context

CO 4. Students learn to relate internal dynamics such as personality perception motivation and attitude to the choice consumer make

M.Com. (Third Semester)

PAPER: MCFM-305 Marketing Research

CO 1. Students equipped with how to conduct marketing research /projects in their work place students a good with how to conduct marketing research projects in their work place and /or in personal career advancement in research

CO 2. Students will be able to know how to identify the problem of research and how to choose research design in practical life.

CO 3. Student will be able to know how to collect various types of data how to prepare questionnaire and also how to apply scale in techniques in research.

M.Com. (Third Semester)

Paper: MCC-308 dissertation

CO 1. To widened theoretical knowledge with the help of practical knowledge

CO 2. To develop practical and analytical thinking skill

CO 3. To develop problem solving skill

M.Com. (4th Semester)

Paper: MCC-401 CG BE and CSR

CO 1. The students will be Fame the rised with the concept of corporate governance and the role and importance of its stakeholders

CO 2. The students will also be able to appreciate the principles theories and models of corporate governance

CO 3. Familiarized legislative framework of corporate governance in India

CO 4. The students are familyred with the concept of Corporate Social responsibility and issues relating to corruption code of ethics and environment

M.Com. (4th Semester)

Paper: MCC 402 Entrepreneurship Development

CO 1. This course builds the entrepreneurship skills among the students

CO 2. This course also increases the knowledge of students and understanding of how to start a smoke industries registration process and the list of items which are reserved for small scale industry

CO 3. It also builds clarity in mind of students how to access the demand and supply in potential areas of growth and grab business opportunities

CO 4. The meaning of this course is to aware students about various incentive and mode young student the meaning of this course is to aware students about various incentive and mold young Minds to take up challenges and become employed and private employment for others

M.Com. (4th Semester)

Paper: MCC 403 Corporate Tax Planning

CO 1. Compute liability of company

CO 2. Consider text implication while taking business decision

CO 3. Assess impact of taxation on trade off of financial decision

CO 4. Independently undertake corporate tax planning

M.Com. (4th Semester)

Paper: MCCM 404 International Marketing

CO 1.To develop and understanding of international marketing environment

CO 2.To understand the different marketing peace that is product price place promotion decisions in practical life

CO 3.To understand the differences between domestic and international market aspects

CO 4.To understand about new strategies to enter into foreign market.

M.Com. (4th Semester)

Paper: MCFM 405 Service Marketing

CO1.Understanding the concept of successful service marketing and ability to face the challenges in service marketing

CO2.To emphasize the significance of service marketing in the Global economy

CO3.To make the students understand the Deepa aspect of successful service marketing

CO4.To provide insights to the challenges and opportunities in service marketing

M.Com. (4th Semester)

Paper: MCOE 407 Working Capital Management

CO 1.Evaluate the importance of effective working Capital Management and its role in meeting the firm's strategic objective and its impact in value creation

CO 2.Plan analytical skills tools and techniques to enhance the decision-making process

CO 3: Formulate appropriate working Capital Management policies to achieve corporate objectives.