

**Kanoria PG Mahila Mahavidyalaya
Jaipur**

**Document on Programme Outcomes,
Programme Specific Outcomes
and
Course Outcomes**

Section 1 : Undergraduate Programmes

Programme Outcomes

- PO1. **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO2. **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- PO3. **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO4. **Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- PO5. **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- PO6. **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- PO7. **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes



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1.1 Humanities and Social Sciences
Programme Specific Outcomes (PSOs) and Course Outcomes (COs)

1.1.1 Drawing and Painting

PSO1. Creative thinking, Concept and Content building and understanding of the creative process
 PSO2. Development of Skill and Technique
 PSO3. Communication and demonstration of Ideas
 PSO4. Social, Economic & Environmental Impact

Course Outcomes

Paper I-Fundamentals of Fine Arts :

CO1 Theoretically the students will understand the Fundamentals of Fine Arts , Philosophy of Art, Creative Process in a work of art, various colour mediums -Watercolours, pastel, acrylic, oil etc. wall painting technique like fresco & its type & printing making technique & tools- lino, woodcut, Colograph, Etching & Lithograph.

Paper II -Still Life & Creative Design:

CO1 The curriculum is so designed that the students will be able to develop perceptual skills and learn drawing methods, sketching styles and acquire expertise in the painting in Watercolor. Through rigorous training and continuous practice the students will learn the process involved in creating Still life, Creative design & Sketching objects.

CO2 They will not only learn the academic style of creation of still life but will also learn the concept & technique behind Creative Design referred to as Rendering : will gain first-hand knowledge of modern art technique

CO3 Ample opportunities are provided through Classroom teaching, events, workshops, live demonstrations of various techniques and the wide range of opportunities provided to the students helps them to develop their artistic skills and creative talent exponentially.

CO4 Students are encouraged to communicate the concept, content, and creative process visually, orally and in writing through participation in classroom discussions, art exhibition, art competitions, demonstrations, attending Art Fair & Seminars etc.

Paper III- History of Indian Painting & Sculpture:

CO1 Theoretically the students will understand the History of Indian Art & Sculpture: From Prehistoric art to classical Indian Art style to Modern Indian artists along with art history of famous Indian Sculptural schools.

Paper IV- Portrait & Creative Portrait design:

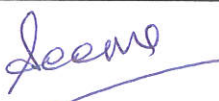
CO1 The curriculum is so designed that the students will be able to develop perceptual skills and learn drawing methods, sketching styles and acquire expertise in Portraits in watercolour or in Oil

CO2 Through rigorous training and continuous practice the students will learn the process involved in creating portraits, Creative design & Sketching human figure. They will acquire skills of sketching facial features along with introduction to the basics of human anatomy.

CO3 They will not only learn the academic style of creation of Portraits but will also learn the concept & technique behind Designing Creative portraits referred to as Rendering : through which the student will further enhance knowledge of modern art techniques.

CO4 Ample opportunities are provided through Classroom teaching, events, workshops, live demonstrations of various techniques and the wide range of opportunities provided to the students helps them to develop their artistic skills and creative talent exponentially.

CO5 Students are encouraged to communicate the concept, content, and creative process visually, orally and in writing through participation in classroom discussions, art exhibition, art competitions, demonstrations, attending Art Fair & Seminars etc.



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Course outcome of Paper V -Post-Independence Artists of India:

Theoretically the students will understand the style & techniques of the various famous Artists of India in the Post- Independence era . The student will be able to understand the style, medium & techniques used by the famous Indian painters, sculptors & graphic artists. This theoretical study will help the students practically & will also inspire them to pursue a career in art.

Course outcome of Practical Paper VI- Life Study:

The curriculum is so designed that the students will be able to develop perceptual skills and learn drawing methods, sketching styles and acquire expertise in Human Figure Drawings in pencil .Through rigorous training and continuous practice the students will learn the process involved in Life Study , Creative Compositions & Sketching human figure. They will acquire in-depth skills of human anatomy.

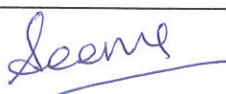
Course outcome of Practical Paper VII- Composition : The students will acquire skill of designing Compositions on various themes in watercolour, poster or acrylic colours . They will not only learn the academic style of creation of Human Figures but will also learn the concept & technique behind Designing Creative Composition in various styles be it Realistic or Modern or Geometric etc.

Ample opportunities are provided through Classroom teaching, events, workshops, live demonstrations of various techniques and the wide range of opportunities provided to the students helps them to develop their artistic skills and creative talent exponentially.

Students are encouraged to communicate the concept, content, and creative process visually, orally and in writing through participation in classroom discussions, art exhibition, art competitions, demonstrations, attending Art Fair & Seminars etc.

1.1.2 Economics

- PO1 Students will be able to use economic terms, concepts and theories.
- PO2 Recognize the different views that have reasonably exist about economic problems and alternative economic systems and present those views in possible formats.
- PO3 Identify, compile, interpret, and analyze quantitative economic data by expressing relationships between concepts through graphs, statistical and mathematical analysis.
- PO4 Analyze and understand the monetary and fiscal policy and their role in an economy.
- PO5 Use economic tools and concepts to address public policy issues such as competition, environmental protection, financial regulation, labor law, or taxation.
- PO6 Collect and integrate information from a variety of sources and their analysis and interpretation.
- PO7 Study economic theories and their applicability in contemporary scenarios.
- PO8 Students will be able to understand the basic functioning of domestic and global economies.
- PO9 Use of basic statistical and mathematical tools for analysis.
- PO10 Apply economic analyses to their everyday lives and see economics in real world situations.
- PO11 Presentation using graphs, figures and charts and also through the use of Powerpoint or similar products.
- PO12 To deduce reasonable predictions about possible economic outcomes based upon economic conditions and economic theories.
- PO13 Students will be able to do effective economic analysis.



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Course Outcomes

Microeconomics:

- CO1 Understanding of basic concepts of micro economics and the difference between micro and macro economics.
- CO2 Define and apply the concept of elasticity.
- CO3 Define scarcity and show how it relates to the concepts of choice and cost.
- CO4 To identify the key elements of the demand and supply model and use the model to critically analyze real world examples.
- CO5 It will help students in understanding the behavior of individuals and small organizations in making decisions on the allocation of limited resources.
- CO6 To deal with the concepts of consumer behavior, production, market, factor pricing.

Indian Economy

- CO1 Students will have a comprehensive understanding of the Indian economy.
- CO2 To analyze the Indian economy before and after independence.
- CO3 To understand Sectoral policies and their impact.
- CO4 To study various contemporary issues like employment, poverty, education, health care etc.
- CO5 Explain the interdependence among primary, secondary and tertiary sectors of the economy.
- CO6 Understanding of rural banking, infrastructure and agriculture importance.
- CO7 To study foreign trade, value and composition.
- CO8 To study all the plans, planning commission and NITI Aayog.

Macroeconomics

- CO1 Use of employment and national income statistics to analyze the economy in quantitative terms.
- CO2 Students will analyze the role of money, credit and monetary policy.
- CO3 Students will be able to utilize a simple economic model such as the aggregate supply/aggregate demand and describe the interrelationships among prices, income & interest rates.
- CO4 Analyse fiscal and monetary decisions to counter business cycle movements in an economy.
- CO5 To identify the structure and functioning of banking.
- CO6 To address issues like unemployment, national income, consumption, investment, economic growth etc.

History of Economic Thoughts

- CO1 Knowledge of mercantilism and physiocracy.
- CO2 Study of classical school (Adam Smith, Ricardo, T.R. Malthus and their popular theories).
- CO3 Analysis of classical school with Sismondi, Robert Owen and Friedrich List.
- CO4 Study of Karl Marx.
- CO5 To study neoclassical school with Marshall.
- CO6 To understand economic thoughts of Kautilya and prominent Indian economists.
- CO7 Develop a chronological understanding of the development of economic thought Related to different schools.

Elements of Statistics and Mathematics

- CO1 To equip the students with primary statistical and mathematical tools for analyzing economic problems.
- CO2 Understanding quantitative techniques within economics.

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CO3 Role of statistics in economics.

Introduction to International Trade, Developments and Public Economics

CO1 Identify international organizations and understand their role in the global economy.

CO2 Distinguish between political and economic decisions.

CO3 Explain and compare purchasing power parity.

CO4 Evaluate the effect of tariffs and quotas on trade.

CO5 Define and explain the concept of comparative advantage and other theories of trade.

CO6 To enable the students to understand the theories and strategies of growth and development.

CO7 To understand economic activities using budget and fiscal policies.

CO8 To understand the various finance issues between the central and state Government.

Environmental Economics

CO1 To know the significance and scope of environmental economics.

CO2 To impart knowledge about the issues relating to sustainable development,

CO3 To ensure environmental protection and pollution control measures.

CO4 To understand the environmental resource problems, environmental and social services.

CO5 To study Environment- Economy Linkage.

CO6 Develop the conceptual framework of govt policies and programs.

Application of Mathematics in Economics

CO1 To understand mathematical format through simple illustrations and graphs.

CO2 Understanding of Differential and Integral Calculus and its application in Economics.

CO3 To study theory of consumer behavior.

CO4 To study Theory of firm and different kinds of production functions.

CO5 Knowledge of linear programming, Input-output analysis and game theory.

1.1.3 English Literature

PSO1. To Develop Faculty of Skill in Students- The ability to write clearly, effectively, and imaginatively, and to accommodate writing style to the content and nature of the subject.

PSO2 Equip students with knowledge of English as a World language.

PSO3 Conduct original research and be prepared to pursue advanced studies in English, Public Relations, or Communication fields.

PSO4 An understanding of the historical development of the English from Old English to the present.

PSO5 Developing a Sense of Experience amongst Students through projects.

PSO6 Interact orally in a variety of social and academic contexts.

PSO7 Increased critical awareness and intellectual independence.

PSO8 Choose an alternative career in dramatics, film-making and writing.

BA Part-I

Paper I Poetry & Drama

Course Outcomes

CO1 Enhanced vocabulary and understanding of grammar, figures of speech and sentence pattern.

CO2 Personality development by improved communication skills and soft skills.

CO3 Competence in use of English in real life situations.

CO4 Boost up critical thinking and writing.

CO5 Enriched knowledge of the subject for higher studies.

CO6 Read and comprehend representative literary texts.

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- CO7 Developing interview and observational skills.
- CO8 Improved writing skills and knowledge of journalistic report writing.
- CO9 Acquaintance with major social, political and religious movements from fourteenth to twentieth century.
- CO10 Understanding of basics of poetry, essay, short story, drama and novel as a literary form.
- CO11 Critical ability to read, analyze and interpret texts of different genres.
- CO12 Interpret and appreciate didactic purpose of literature.
- CO13 Delineate major writers and their critical works in chronological order.
- CO14 Master basic terms of literary study.
- CO15 Analyze various elements of prose and poetry.
- CO16 Understanding of linguistics and phonetic transcription.

Paper 2 Prose and Fiction

- CO1 Students will become accomplished readers who could articulate their own interpretations with a broader perspective.
- CO2 With enhanced reading ability, students will develop confidence on their own as a writer. Students will be able to write effectively for a variety of professional and social settings.
- CO3 Students will develop an aptitude of understanding and writing in appropriate genres for a variety of purposes and audiences.
- CO4 Students will gain knowledge of the major traditions of literature written in English. They will develop an ability to read texts in relation to their historical and cultural contexts.
- CO5 Students will develop the ability to read works of literary, and cultural criticism, and deploy ideas from these texts in their own reading and writing.
- CO6 An understanding of the relations between culture, history, and texts.
- CO7 Subjective experience of the text's aesthetic.
- CO8 Familiarity with a wide range of literary terms and categories within literary history, theory, and criticism.
- CO9 Familiarity with the nature of literary canons and of canon-formation.
- CO10 An enriched understanding of the complexities and nuances of the human experience across time and culture.

BA Part-II

Paper I Poetry and Drama

- CO1 To develop the understanding of the genres of poetry.
- CO2 To recognize poetry from a variety of cultures, languages, and historic periods
- CO3 To understand and appreciate poetry as a literary art form.
- CO4 To analyse the various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.
- CO5 To kindle their critical thinking skills.
- CO6 Historical Plays through the prescribed texts and analyse the effect they create in the audience or readers
- CO7 Gain knowledge in the development of English drama from 16th Century to 21st century viz. Shakespearean drama, Sentimental Comedy, Romantic Comedy, Shavian plays and One-act plays.
- CO8 Understand the structure of a play and learn the dramatic devices used in writing a play
- CO9 Become well acquainted with the rhetorical aspect of Drama, historical contexts and psycho-social aspects.
- CO10 To enhance their own creativity.

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Paper 2 Prose and Fiction

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CO3 Students will develop an aptitude of understanding and writing in appropriate genres for a variety of purposes and audiences.

CO4 Students will gain a knowledge of the major traditions of literature written in English. They will develop an ability to read texts in relation to their historical and cultural contexts.

CO5 Students will develop the ability to read works of literary, and cultural criticism, and deploy ideas from these texts in their own reading and writing.

CO6 An understanding of the relations between culture, history, and texts.

CO7 Subjective experience of the text's aesthetic.

CO8 Familiarity with a wide range of literary terms and categories within literary history, theory, and criticism.

CO9 Familiarity with the nature of literary canons and of canon-formation.

CO10 An enriched understanding of the complexities and nuances of the human experience across time and culture.

BA Part-III**Paper I Poetry and Drama**

CO1 To introduce the students to the basic elements of poetry- to enrich the students through various perspectives readings in poetry.

CO2 On completion of the course, the students should be familiar with the plays of master-dramatists and will have developed the ability to appreciate and evaluate various types of plays.

CO3 Appreciate the literary works.

CO4 Know the literary theories, terms and concepts in Criticism.

CO5 Know the use of language at semantic and syntactic levels. The students could improve their vocabulary.

Paper II Prose and Fiction

CO1 Traces the development of history of English literature from its beginning to the present day.

CO2 Interpret the works of great Indian writers in English.

CO3 To develop critical thinking in students.

CO4 To enable them to write and appreciate different types of prose.

CO5 To develop critical thinking and imagination through long and short fiction and to familiarize students with cultural diversity through different representative samples of fiction.

1.1.4 Geography

PSO1. B.A./B.SC program enables us to explain physical processes and their spatial distribution on the Earth's surface, that includes landforms, climate, soils vegetation and hydrology. The programme also focuses on regional study for better understanding of the concepts.

PSO2. Human Geography enables us to distinguish and classify human characteristics, activities, processes and interpret their spatial Distribution composition, cultural complexes, economic interdependence, Settlements and patterns. Resource geography study about resources, distribution, conservation and regions.

PSO3. World Regional geography and Indian geography helps in the understanding of the distribution pattern, characteristics, applications and challenges to be dealt with. It helps in



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the planning and decentralization of the process for sustainable development.
 PSO4. The Earth's features observations and survey data analyzed, interpreted and presented through various diagrams and maps(cartography). Use of statistical methods, conduction of field instrumental survey method and its presentation in the fulfillment of the laboratory exercises.

Course Outcomes

PAPER I. Physical Geography

The study of the structure and composition of our planet Earth. It studies Geomorphology, Climatology, and Oceanography.

PAPER II. The Geography of Rajasthan

The study of the physical basis of Rajasthan ,economic basis and demography .

Practical- calculation of scale, relief representation, weather and climate and surveying.

PAPER III The geography of resources defines and describes resources and its distribution in the world reference, conservation and management.

PAPER IV The study of human geography focuses on the development of man, its origin, and races.

PRACTICAL Study of cartography, statistics and survey.

PAPER V. Geography of India Study of relief and its origin ,economy and demography.

PAPER VI. World regional geography studies continents in reference to geomorphology, economy and demography .

PRACTICAL Projections , diagram and survey.

1.1.5 Hindi Literature

PSO1 Understanding the basic concept and subject of Hindi and its origin.

PSO2 Understanding various aspects of Hindi literature with a process to reach a method and giving a new mode and direction.

PSO3 Making an attempt in different areas and theory such as vocabulary and vice versa.

PSO4 To understand in the Literature more in a border areas then Mary confined to subject.

PSO5 To know about Hindi literature its roots cause perspectives and methods.

PSO6 Elaborating and understanding its philosophical method of Hindi Literature.

PSO7 Evaluating the concept of Hindi from past to present and making the society more closely through literature.

1.1.6 History

PO1 Understand What is History and the relationship between past and present.

PO2 Distinguish Primary and Secondary Sources

PO3 Understand Basic Themes , Concepts , Chronology, Scope of History of countries and world over.

PO4 Develops an in-depth knowledge of historical events , religions, human civilization , customs, institutions, administration, etc. in different parts of the world with a competitive approach .

PO5 Acquire knowledge of major historical schools of thought and their methodology

PO6 Develop critical thinking over political, social, cultural aspects of history.

PO7 Prepare maps, charts ,diagrams, historical models.

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- PO8 Compile bibliography composite .
- PO9 Develop interests in archaeological and archival sources and to preserve and conserve Culture.
- PO10 Develop research skills , historical analysis.
- PO11 Develop lessons of morality and patriotism .
- PO12 Prepare for various types of competitive examinations.
- PO13 Job opportunities in National Archives, Archaeological Survey of India , different kinds of museums in India

Course Outcomes

B.A. 1st Year

PAPER-1 HISTORY OF INDIA FROM THE BEGINNING UPTO 1200 A.D.

- CO1 Understand sources of ancient India.
- CO2 Describe prehistory and protohistory.
- CO3 Understand vedic and harappan civilization .
- CO4 Understand the philosophy of Jainism and Buddhism .
- CO5 Analyze administration , art and architecture of Mauryan Empire , Gupta and Post Gupta Empire.
- CO6 Acquire knowledge about History of south India

PAPER-2 HISTORY OF RAJASTHAN (FROM EARLIER TIMES TO 1956 A.D.)

- CO1 Understand sources of history of Rajasthan .
- CO2 Characterizes Stone Age and Chalcolithic cultures in Rajasthan .
- CO3 Analyze origin, Rise and Expansion of Rajput .
- CO4 Understand Mughal Rajput Relations .
- CO5 Understand Muslim Incursions in Rajasthan and Rajput resistance to it .
- CO6 Understand Impact of treaties between British and princely states.
- CO7 Evaluate freedom struggle in Rajasthan

B.A. 2nd Year

PAPER-1 HISTORY OF MEDIEVAL INDIA (1200-1761 A.D.)

- CO1 Understand sources of Delhi sultanate and Mughal Period.
- CO2 Compare the administration art and architecture of mughal empire delhi sultanate
- CO3 Recognizes South India .
- CO4 Identify Cultural Synthesis.
- CO5 Understand formation and expansion of Maratha empire.

PAPER-2 MAIN TRENDS IN THE CULTURAL HISTORY OF INDIA

- CO1 Understand Indian culture religion and philosophy
- CO2 Analyze the rich art architecture literature and science of Ancient India.
- CO3 Understand Indian Renaissance .

B.A. 3rd YEAR

PAPER I: HISTORY OF MODERN INDIA (1761 -1971 A.D.)

- COI Explain the advent of Europeans in India .
- CO2 Evaluate the formation, expansion and consolidation of British Empire in India under East India Company and its overall impact on Indian polity society and economy .
- CO3 Describe the Indian Renaissance and early political awakening in India .
- CO4 Compare the pre-gandhian and gandhian movements of freedom struggle.
- CO5 Trace the constitutional development in India under British rule .



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PAPER II: HISTORY OF MODERN WORLD (1500-2000 A.D.)

CO1 Understand the rise of the modern world .

CO2 Analyze French and American revolution and their after maths .

CO3 Industrial revolution resulted in imperialism and colonization .

CO4 Understand world war I and two cold wars and the necessity of international peace .

1.1.7 Home Science

PSO1. Understand the basic concepts of foods and nutrition, human development, family resource management, extension education & communication and textiles and clothing.

PSO2. Understand and apply the basic concepts in of Home Science in daily life

PSO3. Develop a scientific approach in solving day-to-day problems.

Course Outcomes

B.A. Part –I

Paper I- Family Resource Management

CO1 Students will develop an insight in managing family resources *i.e.* time, money and energy.

CO2 The procedure of handling money and savings and investment will be learnt.

CO3 There will be an insight regarding consumer rights and responsibilities.

CO4 Students will develop an insight in house planning and interior decoration.

Paper II- Foods & Nutrition

CO1 Developing basic knowledge of food groups and nutrients.

CO2 Understanding the importance of a balanced diet and the importance of each nutrient on human health.

CO3 Gain knowledge about basic requirements of each nutrient and adverse effects caused by deficiency of each of them.

CO4 Understanding the concepts of meal planning and importance of nutrition at every stage of life cycle.

CO5 Understanding basic dietary modifications required in various diseases for restoring normal health conditions.

CO6 Gaining knowledge about nutritional problems of public health significance and their management.

B.A. Part-II

Paper III Human Development

CO1 Understanding the growth and development during human lifespan from conception to old age.

CO2 Understanding the interaction of genes and the environment and their influence on human growth and development.

CO3 Developing insight in early childhood education, developmental disorders, family relationships and its dynamics.

Paper IV Clothing and Textiles

CO1 Developing an understanding of natural and man-made fibres.

CO2 Understanding the basic manufacturing processes from raw material to finished fabric.

CO3 Brief insight into modern day technical textiles.

CO4 Gaining knowledge of various processes applied on textiles at various stages of manufacturing.

CO5 Understanding and applying the principles of selection of fabric and garments.



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- CO6 Understanding the different textile fibre symbols and care symbols and their care and storage.
- CO7 Gaining knowledge about traditional textiles of India .
- CO8 Practical application of elements and principles of design.

BA Part III

Paper V Mother and Child Care

- CO1 Basic understanding of the human reproductive system and physiology of reproduction.
- CO2 Understanding the menstrual cycle and importance of hygiene.
- CO3 Gaining knowledge of care- prenatal, antenatal and postnatal.
- CO4 Understanding basics about care of infants and young children with special reference to nutrition- breastfeeding and complementary feeding.
- CO5 Being informed about various Government programs for mother and child care

Paper VI Extension Education and Communication

- CO1 Concept of education and its types. Principles and objectives
- CO2 Role of development initiatives of Government of India in country's progress.
- CO3 Concepts of communication, teaching methods and aids.
- CO4 International, National and Local support structures and their contribution in development.

1.1.8 Music

- PSO1 To learn vocal singing & instruments used in music research & be able to analyze sources accurately & critically also to present their research in a clear & coherent manner vocally.
- PSO2 Demonstrate competence as a performer on the chosen vocal & instruments both in solo and ensemble repertoire.
- PSO3 Demonstrate a broad understanding of Music as categories of musical significance and with regard to specific works and composers.

Course Outcomes

BA Part I

1st Paper (Principles of Indian Music):-

- CO1 This course has been designed to help the students not only learn music but also work on their overall development by improving their memorization, creativity and self confidence.
- CO2 Students get to study ragas like yaman, bhopali, Bageshshree and many more in detail.
- CO3 Students get the knowledge of sur and taal.

2nd Paper (History of Indian Music):-

- CO1 Students will be able to understand the basics of music after this course.
- CO2 Students will be able to learn multiple taal's with it's notation.
- CO3 Students will be able to learn about the history of Indian Music.

BA Part II

1st Paper (Principles of Indian Music):-

- CO1 It gives students a good learning experience and encourages them to make their basics even more stronger.
- CO2 They study various explanations like Alpatva, Bahutva, Avirbhav, Tirobhav in detail. Students learn various raga's like kamod, Malkunse, Chayanut etc.

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2nd Paper (History of Indian Music):-

CO1 It teaches them the importance of learning new instruments and new vocal techniques.

CO2 Students learn about the styles and contribution of many experienced musicians like Kesar Bai Kerkar, Heerabai Barodkar and Pt. Omkar Nath Thakur.

BA Part III

1st Paper (Principles of Indian Music) :-

CO1 It gives them the confidence to showcase their skills.

CO2 Students learn notation writing in prescribed taal.

CO3 It gives them brief study Rag and Ras.

CO4 Helps them to learn about the difference between Karnataka, Folk and Hindustani Music.

2nd Paper (History of Indian Music):-

CO1 Students learn the Importance of training in order to improve their vocals.

CO2 They get the general Idea of Harmony and Melody.

CO3 Students Learn about Vedic Music and western scales diatonic.

CO4 It gives them the experience of writing thekas with different layakaries like dugun, trigun, chaugun and chhagun in various different talas such as Tilawada, Dhamar, Trital, Jhaptal and etc.

1.1.9 Philosophy

PSO1 This course is designed to expose the students to general philosophy. Which explains the basic concept and problems of philosophy.

PSO2 This course provides the logical principles to make proper arguments. There different scientific methods and procedures are included in this course.

PSO3 This course was designed to provide Modern techniques which helped to prove arguments.

PSO4 This course introduces ethical principles and concepts which will develop moral thinking .It also provides the relation of ethics with Sociology, Politics the relation of ethics with sociology, politics and Religion.

1.1.10 Political Science

PSO 1 Discussing the most important political theorists in the Indian and western tradition and ideas.

PSO 2 Analyzing the Indian constitutional provisions and political system.

PSO 3 Encouraging a comprehensive, comparative understanding of specific world constitutions such as the UK, USA, China, Switzerland and France.

PSO 4 Understanding operations of the international system

PSO 5 Assessing fundamental principles of political science and discriminating between normative and empirical theories.

Course Outcomes

BA Part I

Foundations of Political Science

CO 1 - Analyzing what is Politics and explaining the approaches to the Study of Political Science – Traditional, Contemporary, Behavioral, Post Behavioral and Interdisciplinary Approach and Relationship of political science with other social sciences.

CO 2 - Assessing the concepts of Power, Authority and Legitimacy.

CO 3 - Explaining the principles of Modernization and Political Development.

CO 4 - Assessing empirical Political Theory: System's Analysis, Structural Functionalism.



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- CO 5 - Types of Political Systems – Democracy and Dictatorship.
 CO 6 - Explaining role of Political Parties and Pressure groups in a State and Theories of Representation.
 CO 7 - Describing Rule of Law and Constitutionalism as Principles of Political Science.
 CO 8 - Assessing various organs of the Governments in a state.
 CO 9 - Evaluating the major ideologies which explain various notions of political science.

Representative Indian Political Thinkers

- CO 1 - Tracing the evolution of Indian political thought from ancient India to modern India.
 CO 2 - Analysing Political ideas of Manu, Kautilya and Shukra
 CO 3 – Assessing the Nationalist and Reformist thought of Raja Rammohun Roy, Swami Dayananda Saraswati and Vivekananda.
 CO 4 – Discussing the Awakening of Freedom Movement by Moderate – Gopal Krishan Gokhale and Nationalist – Bal Gangadhar Tilak.
 CO 5- Discussing the Efforts for Independence of Gandhi, Nehru, M. N. Roy and call for Reform by Bhim Rao Ambedkar
 CO 6- Discussing the Roots of Alternative Nationalism – J P Narayan and Deen Dayal Upadhyay.

BA Part II

Selected Political System

- CO 1 – Studying the Salient Features of the Constitutions of Britain, USA, China, Japan and Switzerland.
 CO 2 – Discussing the aspects of Legislatures, Executives, Judiciary, Political Parties and Political Systems of Britain, USA, China, Japan and Switzerland.
 CO 3 – Explaining Analytical and Comparative Perspective of the Political Systems of Britain, USA, China, Japan and Switzerland.

Indian Political System

- CO 1 - Introducing the Indian Constitution with a focus on the role of the Constituent Assembly and examining the essence of the Preamble.
 CO 2- Examining the Fundamental Rights and Duties of Indian citizens with a study of the significance and status of Directive Principles.
 CO 3- Assessing the nature of Indian Federalism with focus on Union-State Relations.
 CO 4- Critically analyzing the important institutions of the Indian Union: the Executive: President; Prime Minister, Council of Ministers; Governor, Chief Minister and Council of Ministers; The legislature: Rajya Sabha, Lok Sabha, Speaker, Committee System, State Legislature, The Judiciary: Supreme Court and the High Courts : composition and functions- Judicial Review and Activism
 CO 5- Critically evaluating the Indian Party system – its development and looking at the ideology of dominant national parties
 CO 6- Evaluating the role of various forces on Indian politics: religion; language; caste; regionalism
 CO 7- Evaluating the Electoral Process in India with focus on the Election Commission: Composition, Functions and Role



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BA Part III

Representative Western Political Thinkers

- CO 1 - Providing an insight into the dominant features of Ancient Western Political Thought: Ancient Greek political thought with focus on Aristotle and Plato.
- CO 2 - Examining the features of Medieval Political Thought – St. Aquinas.
- CO 3 - Evaluating the Renaissance; political thought of Reformation - Machiavelli.
- CO 4 - Critically examining Hobbes as the founder of the Science of Materialist politics; Locke as the founder of Liberalism with focus on his views on Natural rights, Property and Consent; and Rousseau's views on Freedom and Democracy.
- CO 5 - Bentham's Utilitarianism; and John Stuart Mill's views on liberty and representative government.
- CO 6- Taking an insight into Marxism.

International Relations Since World War II and Indian Foreign Policy

- CO 1 - Explaining International developments Post Second World War
- CO 2 - Approaches and methods to study the discipline through Political realism, Pluralism and Worlds system's Model.
- CO 3 - Describing the Cold War phases and understanding the post Cold War era.
- CO 4 - Evaluating the working of UN and its organs.
- CO 5 – Evaluating USA's Relationship with Third World Countries
- CO 6 – Analyzing the Collapse of Communist Block and Tracing the growth of European Union
- CO 7 - Examining Indian Foreign Policy: Basic Principles, Relations with Neighbours and major Powers like USA, Russia and China
- CO 8 – Discussing Politics of West Asia.
- CO 9 - Evaluating Contemporary Global Issues like New World Economic Order, Human Rights, Environmental Issues, Gender Justice, Terrorism and Nuclear Proliferation.
- CO 10 - Analyzing the working of important international and regional organizations like ASEAN, BRICS, IBSA, and SAARC etc.
- Contact Hours: 2.5 hrs a week

BA Honours

Part I

Foundations of Political Science

- CO 1 - Analyzing what is Politics and explaining the approaches to the Study of Political Science – Traditional, Contemporary, Behavioral, Post Behavioral and Interdisciplinary Approach and Relationship of political science with other social sciences.
- CO 2 - Assessing the concepts of Power, Authority and Legitimacy.
- CO 3 - Explaining the principles of Modernization and Political Development.
- CO 4 - Assessing empirical Political Theory: System's Analysis, Structural Functionalism.
- CO 5 - Types of Political Systems – Democracy and Dictatorship.
- CO 6 - Explaining role of Political Parties and Pressure groups in a State and Theories of Representation.
- CO 7 - Describing Rule of Law and Constitutionalism as Principles of Political Science.
- CO 8 - Assessing various organs of the Governments in a state.
- CO 9 - Evaluating the major ideologies which explain various notions of political science.

Representative Indian Political Thinkers

- CO 1 - Tracing the evolution of Indian political thought from ancient India to modern India.

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- CO 2 - Analysing Political ideas of Manu, Kautilya and Shukra
 CO 3 – Assessing the Nationalist and Reformist thought of Raja Rammohun Roy, Swami Dayananda Saraswati and Vivekananda.
 CO 4 – Discussing the Awakening of Freedom Movement by Moderate – Gopal Krishan Gokhale and Nationalist – Bal Gangadhar Tilak.
 CO 5- Discussing the Efforts for Independence of Gandhi, Nehru, M. N. Roy and call for Reform by Bhim Rao Ambedkar
 CO 6 - Discussing the Roots of Alternative Nationalism – J P Narayan and Deen Dayal Upadhyay.

Political Ideologies

- CO 1 – Explaining meaning, Nature and scope of major Political Ideologies.
 CO 2 – Discussing Liberalism and Idealism as isms of Political Thought.
 CO 3 – Examining various types of Socialism
 CO 4 – Assessing Anarchism as an Ideology
 CO 5 - Analyzing ideas of Gandhi and M N Roy.
 CO 6 – Describing Contemporary ideas related to Feminism and Environmentalism

Selected Political System

- CO 1 – Studying the Salient Features of the Constitutions of Britain, USA, China, Japan and Switzerland.
 CO 2 – Discussing the aspects of Legislatures, Executives, Judiciary, Political Parties and Political Systems of Britain, USA, China, Japan and Switzerland.
 CO 3 – Explaining Analytical and Comparative Perspective of the Political Systems of Britain, USA, China, Japan and Switzerland.

BA Honours

Part II

Indian Freedom Movement and Constitutional Development

- CO 1 – Understanding Genesis of Indian National Congress, Role of Congress and Nationalists in Freedom Movement and Partition of Bengal.
 CO 2 – Assessing Salient Features of GOI Act 1905, 1919 and 1935.
 CO 3 - Analyzing Various Sessions of Congress and British Moves – Simon Commission, Gandhi Irwin Pact and Round Table Conferences.
 CO 4 – Evaluating Quit India Movement, Cabinet Mission Plan, Wavell Plan, Mountbatten Plan and India Independence Act of 1947.

Indian Political Institutions and Processes

- CO 1 - Outlining the basic values and philosophy of Indian Constitution as expressed in the Preamble.
 CO 2 - Studying Fundamental rights, duties and Directive Principles of State Policy.
 CO 3 - Examining Indian federalism through Centre-state relations.
 CO 4 - Evaluating the structures of government at the National level.
 CO 5 - Evaluating the structures of government at the State level.
 CO 6 - Examining the role of Political parties in Indian Democracy.
 CO 7 - Studying the Election Commission and electoral process in India.
 CO 8 - Assessing Judicial Activism in India with particular reference to the Supreme Court.
 CO 9 - Studying the process of interaction between society and politics in contemporary India- Caste, region, language and religion.
 CO 10 - Understanding Panchayati Raj System in India.

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International Politics and Foreign Policy of India

- CO 1 - Explaining International developments Post Second World War
- CO 2 - Approaches and methods to study the discipline through Political realism, Pluralism and Worlds system's Model.
- CO 3 - Describing the Cold War phases and understanding the post Cold War era.
- CO 4 - Evaluating the working of the UN and its organs.
- CO 5 - Evaluating USA's Relationship with Third World Countries
- CO 6 - Analyzing the Collapse of Communist Block and Tracing the growth of European Union
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- CO 8 - Discussing Politics of West Asia.
- CO 9 - Evaluating Contemporary Global Issues like New World Economic Order, Human Rights, Environmental Issues, Gender Justice, Terrorism and Nuclear Proliferation.
- CO 10 - Analyzing the working of important international and regional organizations like ASEAN, BRICS, IBSA, and SAARC etc.

Elements of Public Administration

- CO 1- Explaining the nature, scope and evolution of Public Administration; Private and Public Administration; Public Administration in a Democratic and welfare State.
- CO 2 - Analyzing the major Concepts in Public Administration.
- CO 3 - Tracing the Challenges in the discipline of Public Administration like New Public Administration (NPA); Comparative Public Administration (CPA) and Development Administration.
- CO 4 - Analyzing the Administrative Processes: decision making; communication and control; leadership; coordination.
- CO 5 - Assessing the relationship between the Citizen and Administration: Lokpal and Lokayukt, RTI, E Governance and Good Governance.
- CO 6 - Understanding Control Over administration
- CO 7 - Examining Personnel Administration by studying Recruitment, Training and Discipline
- CO 8 - Examining Formulation and execution of Budget.

1.1.11 Psychology

- PSO1** Critical Thinking : Engage in innovative and integrative thinking and problem solving
- PSO2** Ethical: Apply Ethical Standards to evaluate psychological science and Practice
- PSO3** Social Responsibility: Adopt values that build community and team work
- PSO4** Communication: By end of the program the student is enabled for effective writing and presentation skills
- PSO5** Professional Development: Apply Psychological Content and skills to career goals
- PSO6** Self-directed and Life-long Learning: Student graduating with a degree in psychology will be able to locate, evaluate and apply psychological information

Course Outcomes

- Basic Psychological Processes:** Theoretical and practical understanding of the variables that form the basis of psychology
- Social Psychology:** Emphasizes and elaborates on the Individual with reference to its living and non-living environment, and the interaction between the two.
- Abnormal Psychology:** Students understand Scientific modeling of abnormality. Classification and categorization of various mental disorders and their symptomatology

Psychological Statistics: Introduce students to the basic statistics to enable and enhance research aptitude

Positive Psychology: As a contemporary field it exposes the students to prevention and life enhancing theories and methods

Psychometrics: Measurement techniques for quantifying psychological variables. Emphasizes that psychology is an empirical science

1.1.12 Public Administration

PSO1 Develop a better understanding of actual working of the public administration along with its theoretical underpinnings and practices.

PSO2. Understand the basic concepts of public administration like bureaucracy, public budgeting and finance, administrative responsibility, accountability, efficiency, diversity and teamwork within the context of government and non-profit public service programs.

PSO3 .Have the skills to critically analyze public administration issues and analyse managerial issues.

PSO4. Have the ability to communicate and interact productively with a diverse and changing workforce and citizenry.

PSO5. Be able to develop/formulate a public policy response to social or economic problems. Administrative Theory It intends to acquaint the students with the basic knowledge of evolution of the separate discipline as a Public Administration along with various theories and Principles of Public Administration.

PSO-6. Students would gain confidence while dealing with administrative officials and political leaders.

PSO-7. Students would be able to analyze the effectiveness of governmental policies and programmes.

PSO-8. Discuss , debate and communicate effectively on any issues concerning administration politics and society

PSO-9. Capacity to logically and effectively communicate on ethics and governance.

PSO-10. Capacity to become an ethical and effective leader with appropriate communication skills.

PSO-11 Critical thinking and problem solving skills that are applied in the public service realm.

PSO-12 Capacity to demonstrate basic understanding of theories, concepts and practices relevant to public administration and its subfields.

1.1.13 Sanskrit

PSO1 Creating a Sanskrit scholastic community well versed in both traditional as well as modern outlook and temperament.

PSO2 Become proficient users of Sanskrit language.

PSO3 Create awareness about interdisciplinary perspectives of Sanskrit language

PSO4 Produce right knowledge about the utility of the Vedic ritualistic performances.

1.1.14 Sociology

PSO1 Think critically about the causes and consequences of social reality.

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 particularly in their careers or further education.



Course Outcome

BA Part 1

Course 1- Introduction to Sociology

CO1 Provide an understanding of basic concepts of Sociology and of elements which constitute society

CO2 Define Sociology and demonstrate nature, scope and subject-matter of Sociology.

CO3 Understanding the origin and development of Sociology as an academic discipline

CO4 Acquaint themselves with the basic concepts of Sociology like society, community, association, culture, social change, social stratification etc

Course 2- Society in India

CO1 To develop a better understanding of the society especially Indian society and its various salient features

CO2. Know the basic social institutions like family, marriage, kinship in a scientific way.

CO3 Explain social change and the factors affecting social change. Realize the importance of cultural lag to understand social change

CO4 Assessing social problems in contemporary society and also assess policies, interventions and modes of advocacy that will enact positive change.

BA Part -II

Course 3- Social Research Methods

CO1 Learning the applicability of research strategies, both quantitative and qualitative to particular research questions and social contexts.

CO2 Meaning, scope, types and significance of Social Research.

CO3 Importance of research design in Social Research and how to formulate it.

CO4 Learning to conduct a social research for better understanding of social phenomena

Course 4- Sociology of Village

CO1 Define Rural Sociology and demonstrate nature, subject-matter and importance of studying Rural Sociology.

CO2 Providing a detailed view of the agrarian and rural aspect of Indian society.

CO3 Indian rural structure, its components, changes and factor responsible for these changes

CO4 Understand and analyze social, economic and political aspects of rural society

BA-Part III

Course 5- Sociological Thought

CO1 To develop the ability to use several of the major classical and contemporary perspectives in social theory.

CO2 Introduce themselves to the classical theories of Sociology and contributions of different thinkers in this regard.

CO3 Define sociological theory, understand its features and describe and illustrate the role of theory in building sociological knowledge.

CO4 Understand the concepts and contributions of Indian social thinkers in the reform of Indian society as well as to enhance knowledge about society.

Course 6- Introducing Sub Sociologies

CO1 To obtain an insight about the emerging themes and branches in Sociology

CO2 Develop an understanding about trends of urbanization in India and impact of urbanization on Indian society.

CO3 Develop awareness about urban problems and policies adopted to solve such problems.

CO4 Sociology of Urban society, development and Globalization provides a contemporary view of modern day society.



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1.2 Commerce
Programme Specific Outcomes (PSOs) and Course Outcomes (COs)

1.2.1 Accountancy and Business Statistics (ABST)

- PSO1 The students can get the knowledge, skills and attitudes by the end of the B. Com degree course
- PSO2 By goodness of the preparation they can turn into a Manager, Accountant, Management Accountant, Cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government employment and so on.
- PSO3 Students are able to prove themselves in different professional exams like CA, CS, CMA, MPSC, UPSC As well as other co-occurring
- PSO4 The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities
- PSO5 Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, computer
- PSO6 Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator As well as other financial supporting services
- PSO7 Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business
- PSO8 Students will be able to do their higher education and can make research in the field of finance and commerce

Course Outcomes

B.Com- Part-I

Paper 1–Corporate and Financial Accounting

- CO1 This course aims to enlighten the students on the accounting procedures followed by the companies
- CO2 To understand about issue and redemption of shares and debentures
- CO3 To make aware the students about Managerial remuneration, disposal of profits and issue of bonus shares
- CO4 To understand importance of valuation of goodwill and shares
- CO5 To develop the knowledge about higher purchase and instalment system
- CO6 To give the knowledge about calculation of insurance claims and valuation of inventory

Paper 2– Business Statistics

- CO1 To know the students with the basic concepts of data collection, tabulation and analysis
- CO2 To provide the knowledge about means of central tendency
- CO3 To impart the Knowledge about calculation of measures of dispersion
- CO4 To acquaint students with the concept of correlation
- CO5 To provide the importance of index number

B.Com Part-II

Paper -1 Income Tax Law and Practice

- CO1 Students can understand income tax system and its provisions properly
- CO2 To enable students to understand the five heads of income chargeable under income tax act



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- CO3 To learn extensive calculation of gross total income from all five heads
 CO4 To make the students the concept of deductions while calculating total income
 CO5 To apprise the students of various assessments as per the syllabus

Paper-2 Cost Accounting

- CO1 To understand the students the concept of cost, costing, cost accounting and cost accountancy
 CO2 To learn about the various elements of cost and the difference between direct cost and indirect cost
 CO3 To give the details of unit cost, cost sheet, job costing, contract costing and process costing
 CO4 To develop the understanding of marginal costing
 CO5 To give the knowledge of standard costing and analysis of different variances

BCom –Part-III

Paper-1(compulsory paper) Auditing and management accounting

- CO1 To familiar the students with the basic concept of audit and objectives of audit
 CO2 Enable the students to learn the various types of audit
 CO3 This course aims to enlighten the students on the audit procedure of the company
 CO4 To impart detail information about company auditor
 CO5 To give knowledge about preparation of audit report
 CO6 To explain the concept of management accounting
 CO7 To aware the students about capital structure theories and operating and financial leverages
 CO8 Student gets familiar with the concept of financial statement analysis by understanding comparative statement and common size statements
 CO9 This paper also explain the ratio analysis theory

Paper-2 (optional paper-1) Advance Accountancy

- CO1 This paper explains the concept of departmental and branch accounting including foreign branch
 CO2 To understand the investment accounts and royalty accounts
 CO3 To impart knowledge about internal and external reconstruction of the company
 CO4 To make the students aware about holding and subsidiary companies and give the knowledge for preparation of consolidated final accounts
 CO5 To acquaint the students to prepare statement of affairs and liquidators statement at the time of winding up of company

1.2.2 Business Administration (BADM)

- PSO1 This program could provide Industries, Banking sectors, Insurance companies; FMCG companies etc well trained professionals to meet the requirements.
 PSO2 After completing graduation, students can get skills regarding various aspects like sales, legal aspects, entrepreneurial skills etc.
 PSO3 Capability of the students to make decisions at personal and professional level will increase after completion of this course.
 PSO4 Students can independently start up their own business.
 PSO5 Students can get through knowledge of entrepreneurship, law, and different areas of management.



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PSO6 The knowledge of different specialisation areas of management helps the students to make decisions regarding further higher studies and career choices

B.Com Part 1

Paper 1 Business Law

CO1 The objective is to equip students with the basic understanding of the Indian Contract Act, 1872,(sec 1 to 75) The Sales of Goods Act, 1930, Negotiable Instruments Act 1881, Consumer Protection Act etc

CO2 To provide knowledge about different special contracts like indemnity, pledge etc.

CO3 This course intends to provide a basic understanding of the mechanism of business contract related to Indian partnership act 1932 and Limited partnership act 2008.

Paper 2 Entrepreneurship and small Business Management

CO1 This course students will understand the basics of entrepreneurship .they will learn about advantages and problems of entrepreneurship.

CO2 They will acquire knowledge about government initiatives and programmes to encourage entrepreneurship.

CO3 To know about SMEs and their role and their management.

CO4 To acquaint students with the role of financial institutions and DICs

B.Com Part 2

Paper 1 Company Law and Secretarial Practice

CO1 To provide understanding and knowledge about the regulatory framework related to the formation of a company.

CO2 The objective of this course is to provide students knowledge about basics of a company including its types.

CO3 Summarize Procedure for incorporation of the company. And to provide knowledge about content of Memorandum and articles

CO4 Analyze Sources of raising capital.

CO5 Evaluate Role and importance of Company Secretary and key managerial personnel and Directors

CO6 Discuss Matters to be raised and discussed under different types of meetings.

Paper 2 Management

At the completion of this course, students should be able to:

CO1 Define management, its four basic functions and skills.

CO2 They should have theoretical knowledge about schools of management thought and MBO.

CO3: Know critical management theories and philosophies and how to apply them. Recognize the concept of social authority and delegation of authority. They should even know about different type of organization

CO4 Recognize the part communication plays in the management function with the understanding of:

a Communication

b coordination

c Direction

CO5 Students should be able to recognize different types of leadership styles and they should how motivation theories work in organization.

CO6. They have knowledge about different types of control techniques.



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B.Com Part-III

Paper I Functional Management

CO1 After completion of this paper students should know about human resource management, its functions, scope etc.

CO2 Will provide understanding about training and development, they will be able to differentiate between job enlargement and job enrichment and also know components of job analysis.

CO3 recognize the role of marketing ,4ps of marketing ,different concepts of marketing and how new product is developed and what is PLC all about

CO4 To know about production, their function .To understand the importance of plant layout and location. Students will learn about quality control and inventory control.

CO5 Finance is the life blood of any business so students should learn different sources of finance, evaluation of financial management with its importance.

Paper II Advertising and Sales Management (Option1)

CO1 Understand what advertising is about what is DAGMAR approach and know different types of advertising

CO2 They will know about how ad campaigns are prepared, how advertising budgets are made.

CO3 Recognize advertising media, reach frequency and how to measure effectiveness of advertising.

CO4 Learn about the role of selling and what qualities are needed by salesmen.

CO5 Know the concept of territory, quota, call etc.

1.2.3 Economic Administration and Financial Management (EAFM)

PSO1 This program could provide Industries, Banking sectors, Insurance companies; FMCG companies etc well trained professionals to meet the requirements.

PSO2 After completing graduation, students can get skills regarding various aspects like sales, legal aspects, entrepreneurial skills etc.

PSO3 Capability of the students to make decisions at personal and professional level will increase after completion of this course.

PSO4 Students can independently start up their own business.

PSO5 Students can get through knowledge of entrepreneurship, law, and different areas of management.

PSO6 The knowledge of different specialisation areas of management helps the students to make decisions regarding further higher studies and career choices

Course Outcomes

B.Com-Part I

Paper I Business Economics

CO1 They will get the basic knowledge of business decision , its nature and process They will be able to understand the Consumer behavior , indifference curve , budget line and the price demand relationship

CO2 They will be able to know about the cost concepts , production function

CO3 Will be able to know the price determination in different markets

CO4 They will get to know about the various factor of production, concepts of rent, wages, Interest , profit and National Income



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Paper II Indian Banking and Financial System

CO1 Students will have the understanding about the functions of banks, RBI, NABARD, Monetary Policy

CO2 It gives the idea of EBanking And the innovative practices In the Banking Industry They will able to learn about the negotiable instruments

CO3 They will able to understand the Financial system

CO4 Its give the understanding of Capital market and money market and currency options and knowledge of credit card.

B.Com Part II**Paper I Economic Environment in Rajasthan**

CO1 To impart knowledge about the Economic Environment in the context of Indian Economy and Rajasthan Economy.

CO2 To know about Rajasthan Budget and Planning process.

CO3 To provide an overview of Agriculture Policy of Rajasthan.

CO4 To know about Infrastructure and Industrial Development in Rajasthan.

CO5 To know about Sources of Rural Finance.

CO6 It will also help students for preparing of competitive exams i.e., NET, RPSC and others also.

Paper II Elements of Financial Management

CO1 To impart in depth knowledge about how to manage Finance in Business.

CO2 To provide an overview on Financial Management with different methods i.e., Ratio Analysis, Cash Flow Analysis,

CO3 To impart knowledge about Financial Planning and Forecasting. To enhance knowledge about Working Capital Management, Capital Budgeting and Dividend policy.

CO4 It will also help students prepare for competitive exams i.e.NET, RPSC.

B.Com Part III**Paper I Rural Development and Cooperation**

CO1 Imparts knowledge about the various concepts of Rural Development to the students Awareness of the functions of Infrastructure Development and its role in the growth of the Nation

CO2 Helps in understanding the functioning of Panchayati Raj

CO3 The role and efficacy of Rural Development Programmes can be well analysed It leads to encourage the students' community to study the impact of Capitalism and Socialism

CO4 Better clarity in terms of the optimum utilisation of the workforce and production potential of the country.

Paper II Business Budgeting

CO1 Understanding the operations and working of Budget Committee and its operations to frame the whole Budget

CO2 Capability to assess the significance of Production Decisions so as to achieve targets within the stipulated time

CO3 Understanding the functions and significance of Business Forecasting so as to have optimum utilization of resources

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- CO4 Knowledge regarding the zero-base budgeting and its practical implications which give clear picture dynamism in the market
- CO5 Understanding of the different techniques of risk management by evaluating budgetary controls

1.3 Science

Programme Specific Outcomes (PSOs) and Course Outcomes (COs)

1.3.1 Botany

- PSO1 Understand the basic concepts of Cell Biology, Microbiology, Genetics and Plant Breeding.
- PSO2 Understand the economic importance of plants and their uses for social welfare.
- PSO3 Identify the plants on the basis of taxonomic characters
- PSO4 Write down the classification and characteristics of Algae, Fungi, Bryophyta, Pteridophyta, and Gymnosperms.
- PSO5 Identify plant diseases on the basis of their symptoms and learn control measures.
- PSO6 Understand applications of Molecular Biology and Biotechnology with respect to plants
- PSO7 Understand morphology, anatomy, embryology and physiology of plants.
- PSO8 Understand basic concepts of ecology.
- PSO9 Learn laboratory and field experiments in the above mentioned fields of Botany.

Course Outcomes

B.Sc. Part I

Paper I – Cell Biology, Genetics and Plant Breeding

- CO1 Understand the Mendel's law of inheritance and its exceptions
- CO2 Learn the various types of cytoplasmic inheritance
- CO3 Learn the methods of plant breeding in self-pollinated, cross-pollinated and vegetative propagated crops.
- CO4 Describe the process of introduction, acclimation, selection, hybridization and achievement by Green Revolution
- CO5 Understand the structures of prokaryotic and eukaryotic cells.
- CO6 Learn about the basics of cytology and structure as well as functions of cell organelles
- CO7 Explain the organization of Genes and chromosomes, chromosome morphology and its aberrations.
- CO8 Understand the role of cell and cell division in the growth & development of plants

Paper II – Microbiology, Mycology and Plant Pathology

- CO1 To gain knowledge about principle and application of various types of Microscopy.
- CO2 General bacteriology and microbial techniques for isolation of pure cultures of bacteria and fungi.
- CO3 To prepare various Bacteriological Media and their handling techniques and staining procedures.
- CO4 Understand the classification and structure of viruses and bacteria, along with the methods used in studying viruses and their replication methods.
- CO5 Identify the common characteristics of fungi.
- CO6 Classify fungi into various categories.
- CO7 Gain knowledge about concept of disease, causal organisms, symptoms, identification methods and management of crop diseases
- CO8 Students will acquire knowledge on major infective crop diseases with severe economic

impact.

Paper III – Algae, Lichens and Bryophyta

- CO1 To learn the range of thallus, cell structure, pigmentation and reproduction of algae.
- CO2 Understand the alternation of generation and life cycle of principal groups of algae.
- CO3 Obtain knowledge on classification of algae.
- CO4 Enhance knowledge about the ecology and economic importance of algae
- CO5 Learn about the symbiotic association of algae and fungi in lichens
- CO6 Learn the morphological diversity of Bryophytes.
- CO7 Know the classification of Bryophytes
- CO8 Understand the economic importance of the Bryophytes.

B. Sc. Part II

Paper I – Molecular Biology and Biotechnology

- CO1 Learn basic concepts of Molecular biology and structure of nucleic acids.
- CO2 Understand regulation of gene expression in prokaryotes and eukaryotes.
- CO3 Understand basic models of DNA replication.
- CO4 Explain the process of transcription and translation.
- CO5 Gain experimental knowledge to perform plant tissue culture related experiments
- CO6 Discuss basic concept of plant tissue culture, aseptic culture techniques and media preparation
- CO7 Describe meristem culture and clonal propagation of plants on a commercial scale.
- CO8 Elucidate the molecular techniques involved in gene manipulation, gene amplification and rDNA technology

Paper II – Plant Physiology and Biochemistry

- CO1 Explain the structure and property of water along with its importance in plant life.
- CO2 Explain the process of transpiration, stomatal movement, mineral nutrition and mechanism of transport of organic substances in plants.
- CO3 Describe the process of photosynthesis including z-scheme, C3 and C4 cycle and factors affecting photosynthesis.
- CO4 Explain the process of respiration- RQ, Krebs's cycle, Electron transport chain and factors affecting respiration.
- CO5 Describe the structure and function of carbohydrates, lipids, proteins and amino acids
- CO6 Describe the classification of enzymes, mechanism and factors affecting enzyme action
- CO7 Recognizes physiological roles of different growth regulators in plants.
- CO8 Understand the concept of photoperiodism, vernalization and florigen.

Paper III – Pteridophyta, Gymnosperms and Paleobotany

- CO1 Understand the morphological diversity of Pteridophytes and Gymnosperms.
- CO2 Know the evolution of Pteridophytes and Gymnosperms.
- CO3 Learn about distinguishing characters of Gymnosperms and Pteridophytes.
- CO4 Comparative study of Angiosperm, Gymnosperms and lower vascular plants.
- CO5 Describe the life cycles of various Pteridophytes and Gymnosperms.
- CO6 Understand the economic importance of the Pteridophytes and Gymnosperms
- CO7 Learn about Paleobotany, types of fossils and geological time scale.
- CO8 Understand the various fossil genera representing different fossil groups.

B. Sc. Part III

Paper I – Plant Morphology and Anatomy

- CO1 Understand the basic body plan of flowering plants and canopy architecture.



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- CO2 Know about various tissue systems.
- CO3 Describe the anatomy of dicot and monocot root and stem.
- CO4 Understand the normal and anomalous secondary growth in plants and their causes.
- CO5 Learn about leaf diversity.
- CO6 Understand structure and types of stomata.
- CO7 Learn about structural modifications of root
- CO8 Describe morphology and anatomy of dicot and monocot seed.

Paper II – Ecology and Economic Botany

- CO1 Describe the various climatic factors like atmosphere, light, water, wind and edaphic factors- soil along with their effects on plants.
- CO2 Describe the process of ecological succession and components of the ecosystem.
- CO3 Describe the interaction among organisms and plant adaptations.
- CO4 Explain the vegetation type of Rajasthan along with its endangered plants.
- CO5 Study the phytogeographical regions of India.
- CO6 Understand the basic concept of the center of origin of cultivated plants.
- CO7 Study about medicinal plants and their uses.
- CO8 Learn economic importance of plants with reference to food crops, fruits, vegetables, oils, beverages, fibres, spices, etc.

Paper III – Angiosperm Taxonomy and Embryology

- CO1 Understand the structure of anther and microsporogenesis.
- CO2 Describe types of ovules and megasporogenesis.
- CO3 Understand the mechanism of pollination and basic structure of the embryo, endosperm and embryo sac.
- CO4 Learn about the basic concept of taxonomy of Angiosperms.
- CO5 Acquire knowledge of identification and rules, principles and recommendations of nomenclature of plants.
- CO6 Knowledge about Various systems of classification of Angiosperms with their merits and demerits.
- CO7 Introduces the phylogeny of angiosperms.
- CO8 Understand diagnostic features of different families and floral characters of different flowering plants.

1.3.2 Chemistry

PSO-1. Learn basics of Metal Ligand Bonding

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- PO-2. Know the structure and bonding in molecules/ ions and predict the Structure of molecules/ions.
- PSO-3. Understand the various types of aliphatic, aromatic, nucleophilic substitution reaction.
- PSO-4. Understand and apply principles of Schrodinger Equations
- PSO-5. Learn the Familiar terms like Adsorption and Micelle.
- PSO-6. Understand good laboratory practices and safety.
- PSO-7. Carry out experiments in the area of organic analysis, estimation, separation, derivation process, conductometric and potentiometric analysis.
- PSO-8. Understand Vibrational and Molecular Spectroscopy.
- PSO-9. Learn the basic concepts of NMR and Mossbauer Spectroscopy.
- PSO-8. Study various analytical techniques like Conductometry, potentiometry, Coulometry and Atomic Absorption Spectroscopy.
- PSO-9. Learn about nanomaterials, its synthesis and applications.
- PSO-10. Study Solid state chemistry and superconductors.
- PSO-11. Study the Quantum Mechanical aspects of chemical bonding.
- PSO-12. Understand disconnection approach and ring synthesis.
- PSO-13. Learn various extraction techniques for natural products.
- PSO-14. Study the mode of action of drugs.
- PSO-15. Learn about antibiotics, analgesics and antipyretics.

Course Outcomes

B.Sc. Part I

Paper 1 – Inorganic Chemistry

- | | |
|------|--|
| CO1 | Explain the structure of ionic solids. |
| CO2 | Understand the band theories for metals. |
| CO3 | Know about weak interactions. |
| CO4 | Understand the valence bond theory & molecular orbital theory. |
| CO5 | Explain geometry of different molecules. |
| CO6 | Know about s–block elements. |
| CO7 | Understand the properties of s- block elements. |
| CO8 | Know about some important compounds of p- block elements |
| CO9 | Understand the radioactivity and nuclear reaction. |
| CO10 | Know about isotopes, isomers, isotones and nuclear isomers. |

Paper 2 – Organic Chemistry

- | | |
|------|---|
| CO1 | Determine the stability and reactivity of various organic compounds. |
| CO2 | Compare the reactivity and stability of various compounds |
| CO3 | Understand the concept of Electrophile , Nucleophile and Free radical |
| CO4 | Give explanation for a logical mechanism for organic chemical reaction. |
| CO5 | Recognize chiral molecule , achiral molecules and distinguish them |
| CO6 | Identify and depict structural isomers , stereoisomers (enantiomers and diastereomers, racemic mixture, and meso compounds). |
| CO7 | Recognize the stereocenters and determine the R or S configuration of the molecule |
| CO8 | Determine the specific rotation of the enantiomers. |
| CO9 | Identifies the structure and differentiate various saturated and unsaturated organic compounds. |
| CO10 | Give various types of mechanism for the multiple bonds containing organic compounds. |

Paper 3 – Physical Chemistry

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- CO1 Describe Logarithmic relation, curve sketching, differentiation of functions.
- CO2 Explain Factorials and Probability
- CO3 Describes the ideal and real gases.
- CO4 Uses the real gas and Vander Waals isotherms.
- CO5 Describes the critical state, critical constant equation.
- CO6 Explain the properties of liquids and solids.
- CO7 Understand various types of colloids and its applications, concept of gels, sols and emulsions.
- CO8 Describe Chemical kinetics and its scope.
- CO9 Understand catalysis and its classification

B.Sc.Part-II

Paper 1- Inorganic Chemistry

- CO1 Know about properties of d-block elements.
- CO2 Understand electronic configuration & magnetic and color properties of f- block elements.
- CO3 Know about compounds of lanthanides and actinides.
- CO4 Explain the structural, geometrical and optical isomerism in coordination compounds.
- CO5 Know about Werner's theory & VBT of Coordination compounds.
- CO6 Know about lanthanide contraction.
- CO7 Know about redox reactions & explain the water Frost, Latimer & Pourbix diagrams.
- CO8 Understand Arrhenius, Bronsted Lowry and Lux Flood theory.
- CO9 Know about different types of solvents.
- CO10 Explain non aqueous solvents.

Paper 2 – Organic Chemistry

- CO1 Know about UV spectroscopy.
- CO2 Explain IR spectra of organic compounds.
- CO3 Understand the chemical reactions of alcohol, ethers, phenols & epoxides.
- CO4 Explain some important name reactions of organic compounds.
- CO5 Explain nucleophilic addition reactions of aldehydes & ketones.
- CO6 Know about structure & bonding in carboxylic acids.
- CO7 Know about organic compounds of nitrogen.
- CO8 Explain chemical reactions of alkyl amines.
- CO9 Explain properties & chemical reactions of aryl amines.
- CO10 Explain aromatic substitution reactions in aromatic compounds.

Paper 3 – Physical Chemistry

- CO1 Describe Laws of Thermodynamic Entropy, Heat Capacity.
- CO2 Understand Joules Law, Joule Thomson coefficient, Thermodynamic process.
- CO3: Know about Kirchoff law.
- CO4 Understand Carnot cycle & theorem.
- CO5 Understand Gibbs and Helmholtz functions & Nernst Heat theorem.
- CO6 Know about phase rule.
- CO7 Know about phenol water system and Nernst distribution law.
- CO8 Understand Kohlrausch law and Arrhenius theory.
- CO9 Know about reversible and irreversible cells.

B.Sc. part-III

Paper 1- Inorganic Chemistry

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- CO1 Understand Pearson's HSAB concept & symbiosis.
 CO2 Know about hard & soft acid base.
 CO3 Explain the crystal field theory for tetrahedral, Octahedral & square planar complexes.
 CO4 Understand the magnetic behaviour of transition metal complexes.
 CO5 Explain Orgel energy level diagram .
 CO6 Understand the stability of complexes & substitution reactions in square planar complexes .
 CO7 Know about bonding, properties, preparation and applications of organometallic compounds.
 CO8 Understand the essential & trace elements in biological processes.
 CO9 Explain the preparation & structure of inorganic polymers.

Paper 2 – Organic Chemistry

- CO1 Know about identification and structure elucidation of organic compound by using NMR Spectroscopy.
 CO2 Explain organic synthesis via enolates.
 CO3 Understand various types of heterocyclic compounds with their synthesis and chemical reactions.
 CO4 Explain classification, nomenclature, synthesis and chemical reactions of carbohydrates.
 CO5 Describe synthesis and chemical reactions of amino acids, Peptides and proteins.
 CO6 Know about structure and functions of nucleic acid.
 CO7 Understand nomenclature, synthesis and chemical reaction of organosulfur compounds.
 CO8 Know about different type of synthetic polymer.
 CO9 Understand Synthetic dyes and its classification.
 CO10 Describe chemistry and synthesis of synthetic dyes.

Paper 3- Physical Chemistry

- CO1 Describes Elementary Quantum Mechanics, Heat capacity of solids, Bohr's model and Compton effect.
 CO2 Describe Schrodinger wave equation and its applications. Operators and postulates of quantum mechanics.
 CO3 Know about bonding and antibonding wave functions.
 CO4 Understand LCAO-Hydrogen molecule formation.
 CO5 Understand VBT and MOT Theory.
 CO6 Uses Rotational, Vibrational and Electronic Spectrum.
 CO7 Recognize theories of photochemistry, physical properties and molecular structure
 CO8 Define ideal and real solutions, activity and colligative properties.
 CO9 Relates the fractional distillation and azeotropes.
 CO10 Express the activity in the electrolytic solutions.
 CO11 Uses the Debye-Huckel theory.

1.3.3 Maths

- PSO1 Bachelor's degree in mathematics is the culmination of in-depth knowledge of algebra, calculus, geometry, differential equations and several other branches of mathematics. This also leads to study of related areas like computer science and statistics. Thus, this programme helps learners in building a solid foundation for higher studies in mathematics.
 PSO2 The skills and knowledge gained has intrinsic beauty, which also leads to proficiency in analytical reasoning. This can be utilized in modelling and solving real life problems.
 PSO3 Students undergoing this program learn to logically question assertions, to recognize patterns and to distinguish between essential and irrelevant aspects of problems. They also share ideas and insights while seeking and benefitting from knowledge and insight of others.



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- This helps them to learn to behave responsibly in a rapidly changing interdependent society.
- PSO4 Students completing this program will be able to present mathematics clearly and precisely, make vague ideas precise by formulating them in the language of mathematics, describe mathematical ideas from multiple perspectives and explain fundamental concepts of mathematics to non-mathematicians.
- PSO5 Completion of this program will also enable the learners to join teaching professions in primary and secondary schools.
- PSO6 Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.
- PSO7 Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
- PSO8 Introduction to various courses like group theory, ring theory, field theory, metric spaces, number theory.
- PSO9 Enhances students' overall development and to equip them with mathematical modelling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
- PSO10 Ability to pursue advanced studies and research in pure and applied mathematical science.
- PSO11 Understand, formulate and use quantitative models arising in social science, Business and other contexts.
- PSO12 Acquire good knowledge and understanding in advanced areas of mathematics and statistics, chosen by the student from the given course.

Course Outcomes

B.Sc-Part I

Paper I Discrete Mathematics

- CO1 Write an argument using logical notation and determine if the argument is or is not valid.
- CO2 Understand the basic principles of sets and operations in sets.
- CO3 Prove basic set equalities.
- CO4 Apply counting principles to determine probabilities.
- CO5 Demonstrate an understanding of relations and functions and be able to determine their properties.
- CO6 Determine when a function is 1-1 and "onto".
- CO7 Demonstrate different traversal methods for trees and graphs.

Paper II Calculus

- CO1 Apply the concept and principles of differential and integral calculus to solve geometric and physical problems.
- CO2 Evaluate various limit problems both algebraically and graphically.
- CO3 Differentiate and integrate the functions which are applicable in real life situations.
- CO4 Interpret the geometric meaning of differential and integral calculus.
- CO5 Apply differentiation to find linear approximation, extrema, monotonicity, and concavity of functions.
- CO6 Solve difficult definite integrals using beta and gamma functions

Paper – III Analytic Geometry and Optimization Theory

- CO1 Understand the basic applications of geometry.
- CO2 Understand geometric terminology for planes, tetrahedron, spheres, paraboloids, sphere, cone, hyperboloids and ellipsoids.
- CO3 Visualize and represent geometric figures



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B.Sc-Part II

Paper I Real Analysis

- CO1 Think about basic proof techniques and fundamental definitions related to the real number system.
- CO2 Understand the concept of real-valued functions, limit, continuity, and differentiability.
- CO3 Find expansions of real functions in series forms.
- CO4 Demonstrate some of the fundamental theorems of analysis.
- CO5 Develops the capacity to solve real integral problems while understanding integrable functions.

Paper II Differential Analysis

- CO1 Identify the type of a given differential equation and select and apply the appropriate analytical technique for finding the solution.
- CO2 Student will be able to solve first order differential equations utilizing the standard techniques for separable, exact, linear, homogeneous, or Bernoulli cases.
- CO3 Create and analyze mathematical models using first order differential equations to solve application problems.
- CO4 Determine solutions to the linear ordinary differential equations of first and second order.
- CO5 Determine solutions of first and second order partial differential equations by using Lagrange's and Charpit's methods.

Paper III Numerical Analysis and Vector Calculus

- CO1 Apply numerical methods to obtain approximate solutions to mathematical problems.
- CO2 Solve the nonlinear equations, system of linear equations and interpolation problems using numerical methods.
- CO3 Examine the appropriate numerical differentiation and integration methods to solve problems.
- CO4 Apply the numerical methods to solve differential equations.
- CO5 Understand the scalar and vector function, their curl, gradient and divergence and their properties.
- CO6 Discuss the three important theorems on vector calculus viz. Gauss Green and Stoke's and problems based on these theorems.

B.Sc. Part III

Paper I Abstract Algebra

- CO1 To demonstrate the mathematical maturity of understanding the proof.
- CO2 To understand the definition of a group and be able to test a set with binary operation to determine if it is a group.
- CO3 To find the order of elements of groups.
- CO4 To identify subgroups of a given group, cycle groups, normal groups.
- CO5 To understand permutation groups and be able to decompose permutations into 2-cycles.
- CO6 To grasp the significance of the concepts of homomorphism, isomorphism, and automorphism and be able to check a given function is one of these.
- CO7 To classify groups up to isomorphism.
- CO8 To identify a set with binary operation forms a ring or not.



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- CO9 To really understand the special types of rings and be able to construct new examples from the old ones.
- CO10 To check if a subset of a ring is an ideal or not and be able to identify proper and maximal ideals.
- CO11 To understand the basics of vector space and its properties.

Paper II Complex Analysis

- CO1 Demonstrate understanding of the basic concepts and fundamental definitions underlying complex analysis.
- CO2 Investigate complex functions, concept of limit, continuity and differentiability of complex functions.
- CO3 Demonstrate capacity for mathematical reasoning through analyzing analytic functions.
- CO4 Prove and explain concepts of series and integration complex functions.
- CO5 Understand problem-solving using complex analysis techniques.
- CO6 Understand the conformal mapping and bilinear transformations.
- CO7 Enjoy the role of complex functions in today's mathematics and applied contexts.

Paper III Mechanics

- CO1 Explain the geometry of the motion of particles in plane curve, i.e. position, velocity, and acceleration, and how those quantities are related through calculus.
- CO2 Learn Newton's laws of motion and examine their application to a wide variety of problems.
- CO3 Learn the basic concept of composition and resolution of forces, Virtual work, moment, catenary and friction.
- CO4 Understand and visualize the real physical problem in terms of Mathematics.
- CO5 Learn one-dimensional (SHM), multi-dimensional (Projectile motion), and constrained motion, motion of particles with or without connecting with string.

1.3.4 Physics

- PSO 1:** Understand and apply the principles of Classical mechanics, Quantum mechanics, Thermodynamics, Nuclear physics and Electrodynamics.
- PSO 2:** Understand and apply the principles of Solid state physics, Optics, Photonics and Spectroscopy.
- PSO 3:** Understand the principles of Electronics, Design and test electronic circuits.
- PSO 4:** Understand and apply the principles of Mathematical Physics and Computational Physics and do Error analysis in measurements

Course Outcomes

B.Sc. Part I

Paper I : MECHANICS

After completion of this course, students will be able to

- CO1 Understand the basic phenomena of relativity with respect to any other object. By this course students can easily understand basic ideas of different conservation fields like gravitational, electric, magnetic fields.
- CO2 Find the solutions of their questions which related to their daily life. After completion of starting two-unit students will be able to understand different phenomena.
- CO3 Define some events which are present in nature. Mechanics is the subject which can give the answer to these, like earth rotation, cyclotron, and storm. So that this can be interesting for students.

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CO4 Define oscillation of any object which picks different questions in their mind. But mechanics provides the answers of these questions to students. After this subject knowledge students can find their answers and open their mind for new ideas.

Paper II : ELECTROMAGNETISM

After completion of this course, students will be able to

- CO1 Understand the concepts of scalar and vector fields.
- CO2 Define physical meanings of gradient, divergence and curl of the fields and can solve the questions related with them.
- CO3 Understand and solve the numerical of the topics related with Electric Field, potential energy, potential due to monopoles, dipoles and quadruple, free and bound charges.
- CO4 Understand about the topics like the properties of magnetic field, Lorentz force, Ampere's law, Laplace and Poissons equations, electron spin and spin magnetic moment, diamagnetic, paramagnetic and ferromagnetic materials, electromagnetic waves, Maxwell's equation in vacuum and in different medium.

Paper III : OPTICS

After completion of this course, students will be able to

- CO1 Apply the concept of interference, diffraction and polarization in manufacturing devices used in emission/absorption spectroscopy, solar cells, photovoltaic and antiglare coatings.
- CO2 Analyse the concept of spatial and temporal coherence, coherent time and coherent length for production of interference.
- CO3 Apply the knowledge of diffraction of light to estimate various physical quantities such as wavelength of given light source, dispersive power of grating, resolving power of grating.
- CO4 Understand the concept of optical fibre for fast and lossless transmission of signals along with their usages in various field such as medical sciences, military and defence apart from data transmission.
- CO5 Acquire concept of Laser and holography to understand their applications in eye surgery, dental implants, tool and die making, 3D films production/display, human brain surgery by 3D microscope, etc.

B.Sc. Part II

Paper I : THERMODYNAMICS

After the completion of the course the students will be able to

- CO1 Understand the basic concepts and laws of Thermodynamics.
- CO2 Restate definition of System, Surroundings, closed and open systems Extensive and intensive Properties.
- CO3 Define the concept of Heat, Work and Energy.
- CO4 Explain fundamental thermodynamic properties.
- CO5 Calculate changes in Kinetic, potential, enthalpy and internal energy.

Paper II : MATHEMATICAL PHYSICS

After the completion of the course the students will be able to

- CO1 Have a good grasp of the basic elements of complex analysis, including the important integral theorems.
- CO2 Determine the residues of a complex function and use the residue theorem to compute certain types of integrals.
- CO3 Solve ordinary second order differential equations important in the physical sciences; physically relevant partial differential equations using standard methods like separation



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- of variables, series expansion (Fourier-type series) and integral transforms.
- CO4 Expand a function in a Fourier series and use integral transforms (Fourier and Laplace) to solve mathematical problems relevant to the physical sciences.
- CO5 Formulate certain physical laws in terms of tensors, and simplify them using coordinate transformations.
- CO6 Solve basic classical variational problems.

Paper III : ELECTRONICS AND SOLID-STATE DEVICES

After the completion of the course the students will be able to

- CO1 Applies the concepts of network topology and can solve the complicated circuit of electronics.
- CO2 Understand the current voltage characteristics of semiconductor device design and analyze electronic circuits.
- CO3 Understand the basic operation of diodes, transistors, FET, MOSFET, Amplifiers, Oscillators and their working.
- CO4 Differentiate between different power amplifier circuits, designs and their use in electronic and communication circuits.
- CO5 Design the different oscillator circuits for various frequencies.
- CO6 Gain knowledge about logic gates, Boolean algebra, De-Morgan theorem, realization using DTL and TTL logic gates.

B.Sc. PART III

Paper I : QUANTUM MECHANICS

After the completion of the course the students will be able to

- CO1 Understand about the various aspects of the historical development of quantum mechanics and some experiments formulated during the early decade of the century which reveal the wave properties of matter, as well as how this motivates replacing classical mechanics with a wave equation comprising the genesis of quantum mechanics.
- CO2 Define the central concepts and principles in quantum mechanics, such as the Schrödinger equation, the wave function and its statistical interpretation, the uncertainty principle, stationary and non-stationary states, time evolution of solutions.
- CO3 Solve time independent and time dependent Schrodinger equation and their solutions with concise physical interpretations and reasoning underlying the mathematical results.
- CO4 Have comprehensive knowledge of the concepts of angular momentum and spin, as well as the concept of quantization.

Paper II : NUCLEAR PHYSICS

After the completion of the course the students will be able to

- CO1 Determine the charge, mass of any nucleus by using various spectrographs.
- CO2 Understand the size of the nucleus and all its properties.
- CO3 Understand interaction of various types of radiation with matter which they observe in their daily life. It's easy for them now to relate the theory to practical.
- CO4 Apply various methods of accelerating various types of particles to perform scattering experiments.
- CO5 Explain the detecting methods and instruments for different types of charged and neutral particles

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Paper III : SOLID-STATE PHYSICS

After the completion of the course, students will be able to

- CO1 Understand crystal systems, reciprocal lattice and apply this knowledge to understand the phenomenon of X-ray diffraction.
- CO2 Differentiates between different bonding types in crystals.
- CO3 Classify solids on the basis of band theory and comprehend the concept of negative mass to extend their understanding of the semiconductors.
- CO4 Use their understanding of phonons to determine electrical and thermal properties of solids.
- CO5 Explain the origin of magnetic properties of materials.
- CO6 Correlates the science behind superconductivity to the technological application of various phenomena such as magnetic levitation originating from the Messiner effect.

1.3.5 Statistics

- PSO1 Statistics is the language of the uncertainties riddled with the modern information age.
- PSO2 This program is a compact combination of detailed courses of Statistics and an adequate amount of courses on Computer Science, Mathematics and Operations research to complement and offer diversification after the completion of the program.
- PSO3 The thrust of the program is to provide a platform for pursuing higher studies leading to post-graduate or doctorate degrees. Along with this students are equipped with skill enhancement courses like Research methodology, Statistical packages and R language.
- PSO4 This program offers a range of traditional avenues in academics, Govt. Service, IAS, Indian Statistical/ Economic Services, Industries, Commerce, Investment Banking, Banks and Insurance Sectors, CSO and NSSO, Research Personnel/Investigator in Govt. organizations such as NCAER, IAMR, ICMR, Statistical and Economic Bureau & various PSUs., Market Research, Actuarial Sciences, Biostatistics, Demography etc.
- PSO5 It also provides an array of non-traditional employment avenues ranging from Stock Brokers Analyst, Sports Analyst, Poll Analyst, Business Analyst, Financial Analyst, Content Analyst etc.

Course Outcomes

B.Sc Part I (Statistics)

Paper I Probability theory

- CO1 Different approaches to the theory of probability
- CO2 Important theorems on probability and their use in solving problems.
- CO3 Random variables, probability mass function, probability density function, and expectation.
- CO4 Binomial distribution, Poisson distribution, negative binomial distribution, geometric distribution, normal distribution, uniform distribution, exponential distribution, gamma distribution, beta distribution.
- CO5 Students will be able to solve random variable problems and expectation problems and get to know about the nature of variables.
- CO6 With the help of many kinds of distribution students can identify the question and solve them properly.
- CO7 Probability distribution functions are quite important and widely used in actuarial science (insurance), engineering, physics, evolutionary biology, computer science and even social sciences such as psychiatry, economics and even medical trials.



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Paper II Descriptive Statistics

- CO1 Tabular and graphical representation of data based on variables.
CO2 Measures of central tendency, Dispersion, Skewness and Kurtosis.
CO3 Moments and their use in studying various characteristics of data.
CO4 Concept of Principle of least squares for curve fitting and regression lines.
CO5 'Conditions for consistency' and criteria for the independence of data based on attributes.
CO6 Concept of correlation, various correlation coefficients- Pearson's correlation coefficient, Spearman's rank correlation coefficient.
CO7 Numerical analysis by which students can do interpolation and extrapolation which is widely used in forecasting.

B.Sc Part II (Statistics)**Paper I Statistical Inference**

- CO1 The students can Draw the conclusions about the whole population on the basis of a sample.
CO2 The students are able to know the notion of a parametric model and point estimation of the parameters of those models.
CO3 Will be able to demonstrate computational skills to implement various statistical inferential approaches.
CO4 Able to explain in detail elements of statistical decision problems and various inference problems viewed as decision problems.
CO5 Will be able to explain in detail approaches to include a measure of accuracy for estimation procedures and our confidence in them by examining the area of interval estimation
CO6 Students will be able to choose appropriate methods of inference to tackle real problems.
CO7 Students can apply for the chi-square test, t-test and f-test on the relevant problems.
CO8 Testing of hypothesis using Non-Parametric tests like Median test, Runs test, sign test etc. and ability to use them judiciously for the testing of given data

Paper II Statistical application in society and industry

- CO1 To understand the how vital statistics and demographic data are used in Public Health
CO2 To understand the measures of mortality, fertility, morbidity that are based on vital statistics
CO3 Basic understanding of how to use the most commonly available health statistics to quantify disease in Public Health Practice.
CO4 Basic understanding of the most common vital statistical measures encountered in practice.
CO5 They will understand time series models and basic concepts of Index numbers.
CO6 They also have knowledge of statistical quality control which is very important for industry.

B.Sc Part III (Statistics)**Paper I Sample survey**

- CO1 Most of the research work is done through Sample Survey. So students will be able to understand the methodology of sample surveys.
CO2 Be able to analyze data from multi-stage surveys.
CO3 They will be able to understand the use of auxiliary information in sampling.
CO4 They will be able to understand the concepts of sampling techniques.



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CO5 In a given survey sample, students are able to determine whether the sample is a simple random sample, a voluntary response sample, a convenience sample, or has other forms of sampling bias.

CO6 In a given survey sample, students will be able to recognize typical forms of biases such as potential under coverage, non-response and response bias.

CO7 In a given objectives of study, students will able to decide when to use probability sampling or non probability sampling

Paper II Design of Experiment and Computational Techniques

CO1 Develop an experimentation strategy that maximizes learning using a minimum of resources.

CO2 Students have knowledge of one way and two way classification.

CO3 Students have developed a clear understanding of the fundamental concepts of design of experiments like completely randomized design, Randomized block design, Latin square design.

CO4 They can also estimate the missing value of the design.

CO5 Some knowledge of Factorial experiment.

CO6 Students also have knowledge of computer application and data processing.

CO7 They can make algorithms and flowcharts of statistical problems like mean, mode , median, standard deviation etc.

1.3.6 Zoology

PSO1 Understand the basic concepts of cell biology, invertebrates, vertebrates, genetics, taxonomy, physiology, biochemistry, evolution, ecology and applied Zoology.

PSO2 Able to perform various procedures as per laboratory standards.

PSO3 Applications of different methods used in Apiculture, Vermiculture, Sericulture, Aquaculture etc.

PSO4 A wider understanding of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

PSO5 Characterization of the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine).

Course Outcomes

B.Sc. Part-1

Paper – I : Z-101 – Diversity of animals

CO1 Described the general taxonomic rules on animal classification Understanding the basic concept of biosystematics and procedure in taxonomy. Identification of taxonomic status of the non-chordates.

CO2 Elaborated the general biology of a few selected non-chordates.

CO3 Gathered knowledge of some of the important and common protozoans, helminthes of parasitic nature causing diseases in human beings.

Paper – II : Z-102 – Cell biology and genetics

CO1 Familiarized with the structure of cells and cell organelles and applications of microscopes

CO2 Learned about composition of prokaryotic and eukaryotic cells and also understood the structure and functions of chromosomes and the process of mitotic and meiotic cell divisions along with their significance.

CO3 Understood the theories of classical genetics and blood group inheritance in humans.



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CO4 Imparted knowledge of genetic variation through linkage and crossing over, chromosomal aberrations and sex determination. Also got familiarized about the genetic defects and inborn errors of metabolism and genetic counseling.

Paper – III : Z-103 – Gamete and developmental biology

CO1 Understood developmental processes of animals with special reference to chick embryo, development of extra embryonic membrane; types, physiology and significance of placenta.

CO2 Familiarized with different tools and techniques of Embryology and also studied some other important aspects such as aging, teratogenesis, regeneration.

B.Sc. –Part II

Paper – I : Z-201 – Structure and functions of invertebrate types

CO1 Enhanced their knowledge about different Invertebrates species and gain knowledge in the

areas of responses to Systematic position, general organization and affinities

CO2 Students will be well equipped to become competent in research, teaching fields as well as field studies.

Paper – II : Z 202 – Animal physiology and biochemistry

CO1 Attained the knowledge of different systems and its associated organs along with the mechanism of functioning.

CO2 Understood the biochemistry of protein, carbohydrate and lipids and its metabolism in human beings.

CO3 Got knowledge about the enzymes, their types, mechanism of action and different factors which affect their activity.

Paper – III: Z-203 – Immunology, microbiology, biotechnology

CO1 Understood the immunity, their different types and cells/molecules involved in host defense mechanisms

CO2 Acquired knowledge of interactions of antigens and antibodies.

CO3 Familiarized with immune response of the body, mechanisms in disease control, vaccination and process of immune interactions.

CO4 Enabled to use knowledge gained about microbes in day-to-day life.

CO5 Attained knowledge about the principle and applications of different biotechnology techniques – DNA fingerprinting, plotting technique, microarray, applications of hybridoma technique and gene therapy.

B.Sc-Part III

Paper – I : Z-301 – Structure and functions of chordate types

CO1 Understood the salient features of Herdmania and Branchiostoma and their affinities with Hemichordata, Urochordata and Cephalochordata.

CO2 Imparted knowledge about systemic position and anatomy and physiology of different systems of representative animals from Pisces, Amphibians, Reptiles, Aves and Mammals.

CO3 Explained chordate adaptation from fishes to mammals.

Paper – II : Z-302 – Ecology, Environmental biology and Evolution

CO1 Enabled them to understand the environment of earth along with its biotic as well as abiotic factors and different biogeochemical cycle with emphasis on intraspecific relationships of

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animals.

CO2 Enhanced the knowledge of ecosystem, food chain, energy flow and productivity of ecosystem, pollution and bioremediation of polluted environment.

CO3 Came to know about various evolutionary theories and the geological time scale of Earth.

Paper – III : Z-303 – Applied Zoology, Ethology and Biostatistics

CO1 Understood concepts of Vermiculture, Sericulture, Lac Culture, Apiculture, Prawn culture and poultry farming.

CO2 Enabled the knowledge about the economic importance of invertebrates from Protozoa to Mollusca.

CO3 Explained ethological concepts and generated interest in animal behavior.

CO4 Attained knowledge of data importance their collection, tabulation and presentation.

CO5 Students learnt about statistical methods like measures of central tendencies, Probability, hypothesis testing and inferential statistics which can capacitate them into an analytical student along with an insight of its use in research.

1.4 Professional Courses

Programme Specific Outcomes (PSOs) and Course Outcomes (COs)

1.4.1 Bachelor of Business Administration (BBA)

PSO1 With this program, students will gain knowledge to analyze, evaluate and interpret management concepts in their professional life.

PSO2 They will be able to apply ethics, morale, and values in their professional as well as personal life.

PSO3 By smartness of their preparation students will be able to go for better marketing and HR opportunities in the corporate world.

PSO4 They can find career options in the corporate world, various Private and public sectors as a manager, accountant, teacher, financial expert, PR manager.

PSO5 To have a practical hand-on training of office work students go to various companies and organisations as an intern under this program.

PSO6 This program provides theoretical and practical learning of various papers, at the end of which students get opportunities to enter various PG programs and even in research work in different areas.

COURSE OUTCOMES

BBA PART 1

PAPER 1: BUSINESS AND MANAGEMENT

1. To help the students gain understanding of the functions and responsibilities of managers.
2. To provide them tools and techniques to be used in the performance of the managerial job.
3. To enable them to analyze and understand the environment of the organization.
4. To help the students to develop cognizance of the importance of management principles.
5. To help students develop understanding of business terms.

PAPER 2: BUSINESS COMMUNICATION

1. To enable them the use of correct Business Vocabulary & Grammar.
2. To distinguish among various media of communication and communication barriers while



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- developing an understanding of Communication as a process in an organization.
- 3 To draft effective business correspondence with brevity and clarity.
 4. To stimulate their Critical thinking by designing and developing clean and lucid writing skills.
 5. To demonstrate his verbal and non-verbal communication ability through presentations.

PAPER 3: LEGAL ASPECTS OF INDIAN BUSINESS

1. To make students understand important laws relating to the commercial world.
2. To enable them to understand the laws, provisions, exemptions etc. related to contract act, Sales of goods act, Negotiable instrument act, Indian companies act.
3. Identify the fundamental legal principles behind contractual agreements.
4. Examine how businesses can be held liable in tort for the actions of their employees.
5. Understand the legal and fiscal structure of different forms of business organizations and their responsibilities as an employer.

PAPER 4: BUSINESS ECONOMICS

1. To understand the concepts of cost, nature of production and its relationship to Business operations.
2. To apply marginal analysis to the "firm" under different market conditions.
3. To analyze the causes and consequences of different market conditions.
4. To integrate the concept of price and output decisions of firms under various market structures.
5. To make students understand the terminology of the economic system.

PAPER 5: FINANCIAL ACCOUNTING

1. To make students understand the accounting principles and standards.
2. Identify and interpret accounting information to inform users and make decisions.
3. Apply critical thinking skills by identifying and analyzing accounting issues using relevant accounting frameworks.
4. Analyze financial information to make decisions, estimate costs and determine tax implications, audit risk, and engagement procedures.
5. Evaluate the financing, operating and profitability status of the concern.

PAPER 6: COMPUTER FUNDAMENTALS

1. To make students understand the fundamental concepts of computers
2. To make them Familiarise with operating systems, programming languages, peripheral devices, networking, multimedia and internet.
3. To enable them to use Microsoft tools.
4. To develop understanding of C language.
5. To make them clear about the modeling and functioning of the hardware and software system.

BBA PART 2

Paper 1.Strategic Management

On completion of this course, the students will be able to:

1. Describe major theories, background work and concepts in the field of strategic management.
2. Illustrate various concepts, tools & techniques used by executives in developing and executing strategies.
3. Examine tools & techniques to practical situations for diagnosing and solving organizational problems.

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4. Demonstrate capability of making decisions in a dynamic business landscape.
5. Develop capacity to think and execute strategically.

Paper 2. Marketing Management

On completion of this course, the students will be able to:

1. List the various fundamental marketing concepts and the role marketing plays in business.
2. Discuss conceptual knowledge in the functional area of marketing management.
3. Demonstrate effective understanding of relevant functional areas of marketing management and its application.
4. Invent analytical skills in identification and resolution of problems pertaining to marketing management.

Paper 3. Human Resource Management

On completion of this course, the students will be able to:

1. Describe various concepts of human resource management and understand its relevance in organizations.
2. Develop necessary skill sets for application of various HR issues.
3. Analyze the strategic issues and strategies required to select and develop manpower resources.
4. Integrate the knowledge of HR concepts to make correct business decisions.
5. Design rational decisions in the discipline of human resource management.

Paper 4. Business Finance

On completion of this course, the students will be able to:

1. Describe the concepts of financial management and investment and dividend policy.
2. Demonstrate the applicability of the concept of Financial Management to understand the managerial Decisions and Corporate Capital Structure.
3. Appreciate the application of Leverage and EBIT EPS Analysis in association with Financial Data.
4. Analyze the complexities associated with management of cost of funds in the capital Structure.
5. Develop skills to make rational decisions in the process of Financing mix as Wealth maximizations.

Paper 5. Quantitative Techniques

On completion of this course, the students will be able to:

1. Understand various quantitative & statistical methods.
2. Understand data and draw inference from data.
3. Calculate and interpret statistical values by using statistical tool (correlation & regression).
4. Demonstrate an ability to apply various statistical tool to solve business problem.

Paper 6. Management Information System

On completion of this course, the students will be able to:

1. List the basic concepts and technologies used in the field of management information systems.
2. Compare the processes of developing and implementing information systems.
3. Outline the role of the ethical, social, and security issues of information systems.
4. Appreciate the role of information systems in organizations with the implications for the management.



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5. Apply the understanding of how various information systems accomplish the information objectives of an organization.

BBA PART 3

Paper 1.Organizational Behaviour

On completion of this course, the students will be able to:

1. Describe major theories, background work and concepts in the field of organization behaviour.
2. Illustrate various concepts, tools & techniques used by executives in developing and executing strategies of behaviour.
3. Examine tools & techniques to practical situations for diagnosing and solving organisational problems.
4. Demonstrate capability of making decisions in a dynamic business landscape.
5. Develop capacity to think and execute strategically.

Paper 2.Indian Management Thought and Business Leaders

On completion of this course, the students will be able to:

1. Understand the knowledge of spiritual doctrines of management.
2. Nourish the talent of indigenous entrepreneurial leadership.
3. To revive and re-establish the thoughts of Indian thinkers and the spiritual legacy of our country.
4. To cultivate divine love and help practice religion scientifically.
5. To re-awaken the divine wisdom and philosophy of our classical-pious scriptures and Epics.

Paper 3.International Business

On completion of this course, the students will be able to:

1. Describe various concepts of managing business internationally.
2. Develop necessary skill sets for application of various international HR, Legal etc issues.
3. Analyze the strategic issues and strategies required to select and develop manpower resources internationally.
4. Integrate the knowledge of various business management concepts to make correct business decisions.
5. Design rational decisions in various disciplines of business management at international level.

Paper 4. Cost and Management Accounting

On completion of this course, the students will be able to:

1. Describe the concepts of costing and financial accounting.
2. Demonstrate the applicability of the concept of different elements of costing to understand the managerial Decisions and Corporate Capital Structure.
3. Appreciate the concept and application of management accounting.
4. Analyze the complexities associated with cost control techniques with budgeting and standard costing.
5. Develop skills to make rational decisions in the process of Financing mix as Wealth maximizations.

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Paper 5.E- Commerce

On completion of this course, the students will be able to:

1. Understand various e-commerce concepts.
2. Understand data and use and importance of the internet for businesses.
3. To understand electronic payment systems.
4. Importance of data warehousing.
5. Concept and application of ERP, SAP etc.

Paper 6.Book Review

On completion of this course, the students will be able to:

1. To engage critically with the new books on management.
2. How to critically evaluate a text.
3. Outline the role of the ethical, social, and security issues of text.
4. Appreciate the writing skills of the author.
5. Improve their own reading, writing and thinking skills

1.4.2 Bachelor of Computer Applications (BCA)

PSO1 To understand the nature and basic concepts of Computer science, Networking, Web designing, programming languages like C C++ Java etc.

PSO2 Various Lab assignments are given to the students related to DBMS, office management, C, C++, Java, Networking, Multimedia etc.

PSO3 To understand the live application of the subject a project is also introduced in the final year syllabus.

Course Outcomes

Learning Outcomes of Computer System Organization:

- CO1 Students will be able to understand fundamental organization of a computer system
- CO2 Understand the functional units of a processor
- CO3 Understand addressing modes, instruction formats and program control statements
- CO4 Learn about the organization of various parts of a system memory hierarchy
- CO5 Learn basic concept of parallel computing
- CO6 Learn fundamentals concepts of pipeline and vector processing

Learning Outcomes of Office Management Tools:

- CO1 Students will be able to access Microsoft office Applications.
- CO2 It supports management in office administration by making office records.
- CO3 It is to prepare business documents and to prepare office billings, prepare office assets budgeting using Microsoft Excel.

Learning outcomes of Discrete Mathematics:

- CO1 Understand the notion of mathematical thinking, mathematical proofs, and algorithmic thinking and be able to apply them in problem solving.
- CO2 Asymptotic notations, its significance and be able to use it to analyze asymptotic performance for basic algorithmic examples.
- CO3 Graphs and related discrete structures and be able to relate these to practical examples.
- CO4 Be skillful in expressing mathematical properties formally via the formal language of propositional logic and predicate logic.

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Learning outcomes of Object Oriented Programming with C++:

- CO1 Learning outcome is to understand Object oriented programming concepts with C++ programming language.
- CO2 Students will be able to Create logics regarding Object oriented programming concepts. Students will be able to get proper knowledge about High Level Coding programming languages and adopt new features of C++ programming language which will help to learn Java Core programming language.
- CO3 Students will be able to learn how software is developed.

Learning Outcomes of web Designing:**HTML and CSS:**

- CO1 Students will be able to Use knowledge of HTML and CSS code and an HTML editor to create personal and/or business websites following current professional and/or industry standards.
- CO2 They can Use critical thinking skills to design and create websites.

JAVASCRIPT:

- CO1 JavaScript Explain separation of concerns and identify the three layers of the web.
- CO2 Use operators, variables, arrays, control structures, functions and objects in JavaScript.
- CO3 Map HTML using the DOM - Document Object Model.
- CO4 Identify popular JavaScript Libraries.
- CO5 Create dynamic styles.
- CO6 Create animation on a web page.
- CO7 Use regular expressions for form validation.

Learning Outcomes of Networking:

After studying this subject, Students will be able to:

- CO1 identify some of the factors driving the need for network security
- CO2 identify and classify particular examples of cyber attacks
- CO3 define the terms vulnerability, threat and attack
- CO4 identify physical points of vulnerability in simple networks
- CO5 compare and contrast symmetric and asymmetric encryption systems and their vulnerability to attack, and explain the characteristics of hybrid systems.

1.4.3 Bachelor of Science -Biotechnology

- PSO1 This course emphasizes on understanding the distribution, morphology and physiology of microorganisms which help students to understand advances in the different areas like medical, microbial, environmental, bioremediation, agricultural, plant, animal and forensic sciences.
- PSO2 Students will be able to understand the potentials, and impact of biotechnological innovations on the environment and their implementation for finding sustainable solutions to issues pertaining to the environment, health sector, agriculture, etc.
- PSO3 Students have hands-on experience of basic techniques like DNA isolation, Agarose and polyacrylamide Gel Electrophoresis,, various immunological techniques including ELISA and UV-VIS Spectrophotometer which helps them to start Entrepreneurship ventures such as consultancy and training centres .

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PSO4 Students can become Junior Production Officers and Technical Assistants in biotechnology, pharmaceutical Companies, bio fertilizer industry, aquaculture industries, environmental units, crop production units, food processing industries and national bioresource development firms.

PSO5 Beside the industrial sector there are ample opportunities in academics as well professional job oriented courses.

PSO6 Students will undergo industrial training to get familiarized to design & conduct research based experiments, analyze and interpret data for investigating problems .They also learn skills of research based technical writing .

Course Outcomes

MICROBIOLOGY BT-101

Course will provide practical knowledge about different types of bacteria, virus and fungi found in environment

CELL BIOLOGY BT-102

The course focus on different attributes of living cell, cell division and its regulation

BIostatISTICS AND COMPUTER APPLICATIONS BT-103

Students will be able to characterize data and understand different sampling methods.

DEVELOPMENTAL BIOLOGY BT-201

The course provides essential concepts of different genetic processes involved in development of animals and plants

IMMUNOLOGY BT-202

This course provide sound knowledge of how immune system deals with various pathogens and cell types involved in prevention of diseases

BIOANALYTICAL TECHNIQUES BT-203

The course aims at ability to understand the principle, working and calibrations of bioanalytical tools and techniques for industrial and research purpose

ENERGY RESOURCE UTILIZATION BT-301

Students will learn about various renewable and nonrenewable resources and its implications in energy conservations

BIOCHEMISTRY BT-302

Students will be imparted complete knowledge about structure and function of different biomolecules (proteins, lipids, nucleic acids, and carbohydrates) found in living cells.

PLANT AND ANIMAL PHYSIOLOGY BT-303

Students can understand the basic principles & application of plant and animal physiology

MOLECULAR GENETICS BT-401

The course particularly aims at understanding structure , synthesis and replication of nucleic acids & the role of genetics / mutations in animal and plant breeding

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FOOD AND DAIRY TECHNOLOGY BT-402

Students get the information of beneficial microorganisms & spoilage of food and dairy products

BIORESOURCES AND WASTE MANAGEMENT BT-403

Students will learn about different types of waste and their disposal strategies

PLANT SECONDARY METABOLITES BT-502

The course aims at learning various secondary metabolites, its production and uses

ENVIRONMENTAL BIOTECHNOLOGY BT-503

Course will have a specific focus on bioremediation and treatment of polluted effluent

INDUSTRIAL BIOTECHNOLOGY BT-601

Student will learn about industrial importance of microbes in terms of production and their commercial applications

RECOMBINANT DNA TECHNOLOGY BT-602

Learning outcomes are understanding of application of genetic engineering techniques in basic and applied experimental biology

BEHAVIORAL SCIENCES & BASIC COMMUNICATION BT-603

Students get knowledge about the basic English grammar, communication skills, basic language skills & use of language in creative writings

GENOMICS AND PROTEOMICS BT-701

student will be able to completely understand structure and organization of genomics and proteomics that can be utilized in the field of agriculture, ecotoxicology, human health, etc

PLANT BIOTECHNOLOGY BT-702

Students can understand the basic principles & process of plant tissue culture

ANIMAL BIOTECHNOLOGY BT-703

Students get the information establishments of cell lines & application of animal cell culture

MEDICAL BIOTECHNOLOGY BT-801

Students will learn new generation pharmaceuticals, vaccines, hormones and anti inflammatory agents

FUNDAMENTALS OF BIOINFORMATICS AND NANOTECHNOLOGY BT-802

Students get the knowledge of information theory, gene expression, and database queries and their application to biomedical engineering.

BIOETHICS AND IPR BT-803

This course helps to adhere to ethical practices appropriate to the disciplines with respect to biological agents

CRITICAL REASONING, SCIENTIFIC WRITING AND PRESENTATION BT-805

Students get the knowledge of English grammar, communicative skills, to define, classify, and understand the methods of communication, to improve their LSRW skills

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INDUSTRIAL RELATIONS & ENTREPRENEURSHIP BT-806

This course will enable students to learn about project management, entrepreneurship.

1.4.4. Bachelor of Science -Home Science

PSO1. Understand the basic concepts of foods and nutrition, human development, family resource management, extension education & communication and textiles and clothing.

PSO2. Understand and apply the basic concepts in of Home Science in daily life

PSO3. Develop a scientific approach in solving day-to-day problems.

Course Outcomes

B.Sc.-Home Science Part I

Paper I- Textile & Apparel Design

CO1 Understanding the basics and practical application of designing.

CO2 Knowledge about traditional Indian textiles (Woven, printed and embroidered)

CO3 Introduction to basics of fashion.

Paper II- Development Communication & Extension

CO1 Understanding concept of Extension and its related aspects

CO2 Knowledge about existing support structure for development efforts.

CO3 Understanding the process of communication and its importance.

Paper III Foundation of Human Development

CO1 Introduction to concepts of human development.

CO2 Familiarity with controversies, themes and theories of human development.

Paper IV Introduction to Foods

CO1 Understanding definition, concept and functions of food and nutrition.

CO2 Nutritional composition of various food products.

CO3 Effect of processing and cooking on foods.

CO4 Concepts of food preservation and storage.

Paper V Elementary design in Housing

CO1 Gaining insight into the principles underlying house planning

CO2 To develop an insight into landscape planning.

CO3 Understanding the principles of art and design.

B.Sc.-Home Science Part II

Paper VI Apparel Technology

CO1 Knowledge about evolution and socio-psycho aspects of clothing.

CO2 Informed choices made during selection of clothing.

CO3 Understand the basics of garment production

Paper VII Teaching & Learning in Extension

CO1 Understanding of 'Learning'-elements and principles involved.

CO2 Knowledge of teaching methods applied in Extension

CO3 Understanding the concept and selection criteria of teaching aids.



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Paper VIII LifeSpan Development

- CO1 Understanding of the process of lifespan development.
- CO2 Knowledge of various developmental concepts and achievements.
- CO3 Understanding issues and adjustments across life span stages.
- CO4 Sensitization towards developmental delays, laps and individual differences.

Paper IX Nutritional Biochemistry

- CO1 Understanding fundamentals of nutritional biochemistry.
- CO2 Understanding physiological importance of different nutrients in the human body.
- CO3 Understanding digestion, absorption and metabolism of different nutrients.

Paper X Interior Space Design

- CO1 Understanding various components of house interiors.
- CO2 Knowledge and application of various aspects of room decoration.
- CO3 Understanding concept and practical application of kitchen planning, kitchen gardening and waste management.

B.Sc.-Home Science Part III

Paper XI Textile Science

- CO1 Knowledge about different fibres, their manufacturing and properties.
- CO2 Acquaintance with different construction processes to make fabrics.
- CO3 Knowledge of different finishes and application of colour and design in textiles.

Paper XII Programme Management

- CO1 Understanding of community dynamics and its influence on different sections of the community.
- CO2 Understanding pattern of leadership in community.
- CO3 Learning scientific aspects of programme planning and management.

Paper XIII Marriage Family and Human Rights

- CO1 Understanding the concept of marriage and its social importance, recent changes in family.
- CO2 Learning about good parenting, early childhood care and development.
- CO3 Developing perspective on individuals with special needs.

Paper XIV Family & Community Nutrition

- CO1 Understanding concept of energy metabolism.
- CO2 Knowledge of nutrient requirements (RDA) at different stages of life cycle.
- CO3 Understanding and applying principles of meal planning.
- CO4 Knowledge of modification of normal diet to therapeutic diet based on various disease conditions.
- CO5 Understanding concept of community nutrition.
- CO6 Gaining knowledge of methods for assessment of nutritional status.
- CO7 Understanding major public health problems of the country and gaining knowledge about various nutrition programmes run by the Government.



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Paper XV Family Resource Management

- CO1 Developing managerial skills for managing family resources.
- CO2 Developing skills of time, energy and money management.
- CO3 Understanding saving, investment and credit pattern of family.
- CO4 Awareness about consumer problems, rights, responsibilities and laws.
- CO5 Understanding basic points for selection, care and usage of household equipment.



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Program Outcomes Post-graduate Courses:

- PO1 Developing proficient knowledge in concerned subject matter.
- PO2 Developing an aptitude of critical evaluation and research as per the requirement of each discipline.
- PO3 Developing an understanding of practical applications of each discipline.
- PO4 Aiming at higher qualifications in specific subject areas.
- PO5 Imbibing new skills so as to increase employability.
- PO6 Aiming at entrepreneurial aspects of each discipline.
- PO7 Creative and innovative thinking to support innovations.
- PO8 Understanding the importance of community outreach and social responsibility.
- PO9 Inculcating ethical values both –human and those which are specific to the subject.
- PO10 Students must be empowered with knowledge.



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Programme Specific Outcomes –Humanities and Social Sciences

M.A (Subject- Drawing & Painting)

- PSO1 Creative thinking, Concept and Content building and understanding of the creative process
- PSO2 Development of Skill and Technique
- PSO3 Communication and demonstration of Ideas
- PSO4 Social, Economic & Environmental Impact

M.A (Subject- History)

- PSO1 Understand what are History and the relationship between past and present.
- PSO2 Distinguish primary and Secondary Sources
- PSO3 Understand Basic Themes, Concepts, Chronology, Scope of History of countries and world over.
- PSO4 Develops an in-depth knowledge of historical events, religions, human civilization, customs, institutions, administration, etc. in different parts of the world with a competitive approach.
- PSO5 Acquire knowledge of major historical schools of thought and their methodology
- PSO6 Develop critical thinking over political, social, cultural aspects of history
- PSO7 Develop interests in archaeological and archival sources and to preserve and conserve culture.
- PSO8 Develop research skills, historical analysis.
- PSO9 Develop lessons of morality and patriotism.
- PSO10 Prepare for various types of competitive examinations.
- PSO11 Job opportunities in National Archives A



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अधिस्नातक कार्यक्रम उपादेयता

(Programe Outcome)

- हिन्दी साहित्य में सेमेस्टर अधिस्नातक कार्यक्रम में निष्णात विद्यार्थियों का लोक भाषाओं तथा हिन्दी भाषा संबंधी ज्ञान समृद्ध होता है।
- सेमेस्टर कार्यक्रम द्वारा विद्यार्थी, हिन्दी भाषा व साहित्य के विविध रूपों का अध्ययन बिना किसी अंतराल के निरंतर करते हैं... तो ज्ञान और अधिगम में क्रमबद्धता उन्हें अपने विषय में पारंगत बना देते हैं।
- विविध कवि व काव्य अध्ययन से इतिहास, पुराणों के ज्ञान के साथ ही विभिन्न नवीन वादों, विचारधाराओं से जीवन चिंतन को दिशा मिलती है।
- हास्य, वीर, शांत, शृंगार इत्यादि रसों की अनुभूति से विद्यार्थी मानसिक स्वास्थ्य को प्राप्त करते हैं; किसी भी समाज व राष्ट्र के विकास के लिए युवाओं का स्वस्थ दृष्टिकोण महत्वपूर्ण होता है।
- विद्यार्थियों का भावात्मक, संवेदनात्मक, ज्ञानात्मक संतुलन सुदृढ़ बनता है।
- विद्यार्थी, अधिस्नातक के बाद हिन्दी विषय पर एकाधिकार प्राप्त कर आगे एम.फिल्., पीएच.डी., जैसी उपाधि व नेट, सेट पात्रता परीक्षाओं के लिए योग्यता प्राप्त कर व्याख्याता बन सकता है।
- वह देश- विदेश में हिन्दी भाषा के माध्यम से, भाषा विज्ञानी, भाषाविद्, अनुवादक, भारत व राज्य सरकारों के विभिन्न विभागों में राजभाषा अधिकारी, द्विभाषी, सिनेमा में कथा लेखक, गीत लेखक, किन्हीं भी संस्थाओं में हिन्दी प्रवक्ता, प्रूफ रीडर, दूरदर्शन-आकाशवाणी व अन्य चैनलों पर पर वार्ताकार, उद्घोषक, समाचार वाचक, जैसे श्रेष्ठ कार्यों को चुन सकता है।


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**DEPARTMENT OF GEOGRAPHY
KANORIA PG MAHILA MAHAVIDYALAYA
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**PROGRAM OUTCOMES
M.A/ M. Sc**

Geography is the study of Earth's surface and its Description. The word **GEOGRAPHY** is derived from *greek word ge means 'Earth' and grapho means 'to describe'*. Geography is concerned to provide accurate, orderly and rational description and interpretation of the variable character of the Earth's surface.

P01. CRITICAL THINKING

Geography provides the understanding of fundamentals and advanced study of formation, evolution and structural diversity of physical and cultural landscape at Regional and Global level. That helps in the study and analysis of its impact and influences.

P02. EFFECTIVE COMMUNICATION

The subject provides the base for advance study of phenomena that enables delivering of knowledge about elements and processes involved and for Research and development for the people and the society and people's participation.

P03. SOCIAL INTERACTION

The subject with its diverse and dynamic field of study area and research provides the learning platform for interaction within groups of same community and across the globe to meet the challenges.

P04. EFFECTIVE CITIZENSHIP

Post graduate in Geography helps to synthesize, critically evaluate and present Geographic Information that addresses human - environmental challenges through various tools and techniques for the welfare of the society.

P05. ETHICS

In present context of Global village, the geography program helps students to identify, describe, analyse and solve complex interactions exist between the physical and human spheres.

P06. ENVIRONMENT AND SUSTAINABILITY

The program helps in identifying and critically analyzing the spatial Distribution patterns of man- environment interactions, resource planning and management.

P07. SELF-DIRECTED AND LIFE LONG LEARNING

Post graduate program enables to synthesize, critically evaluate, design maps to interpret, study of patterns of physical and human characteristics on the Earth's surface and apply geospatial tools to appraise the real world problems.


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MA Political Science

PSO 1 - Discussing the most important political theorists in the Indian and western tradition and ideas.

PSO 2 - Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society.

PSO 3 - Developing knowledge of administrative studies with special reference to Indian administrative structures and practices.

PSO 4 - Building overall consciousness regarding national political history, foreign policy and international relations.

PSO 5 - Analyzing the working of important international and regional organizations like UN, EU, ASEAN, SAARC etc.

PSO 6 - Assessing fundamental principles of political science and discriminating between normative and empirical theories.



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Program outcomes of PG

DEPARTMENT OF CHEMISTRY

M.Sc Chemistry

Department of Chemistry	After successful completion of two year degree (Semester) program in chemistry a student should be able to;
Programme Outcomes	<p>PO-1. Understand Stereochemistry and Bonding in Main Group Compounds.</p> <p>PO-2. Derive Electronic Spectra of Transition Metal Complexes</p> <p>PO-3. Get familiar with ORD and CD</p> <p>PO-4. Determine structure by using Microwave, Electronic and NMR Spectroscopy.</p> <p>PO-5. Learn about Nuclear and Radiochemistry.</p> <p>PO-6. Get a Review on Types of Reaction Mechanisms.</p> <p>PO-7. Learn about Quantum Chemistry, Electrochemistry and Surface Chemistry.</p> <p>PO-8. Learn about the potential uses of Analytical Techniques and Statistics.</p> <p>PO-9. Become professionally trained in the area of Industry, Material Science, Green Chemistry and Nano-Technology.</p> <p>PO-10. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of Chemistry experiments.</p> <p>PO-11. Demonstrate, solve and an understanding of major concepts in all disciplines of Chemistry.</p> <p>PO-12. Solve the problem and also think methodically, independently and draw a logical conclusion.</p> <p>PO-13. Create an awareness of the impact of chemistry on the society, and development outside the scientific community.</p> <p>PO-14. Become professionally trained in the area of Industry, material science, lasers and Nano-Technology.</p> <p>PO-15. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of Chemistry experiments.</p>



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	<p>PO-16. To inculcate the scientific temperament in the students and outside the scientific community.</p> <p>PO-17. Apply modern methods of analysis to chemical systems in a laboratory setting.</p>
Programme Specific Outcomes	<p>PSO-1. Learn basics of Metal Ligand Bonding</p> <p>PO-2. Know the structure and bonding in molecules/ ions and predict the Structure of molecule/ions.</p> <p>PSO-3. Understand the various type of aliphatic, aromatic, nucleophilic substitution reaction.</p> <p>PSO-4. Understand and apply principles of Schrodinger Equations</p> <p>PSO-5. Learn the Familiar terms like Adsorption and Micelle.</p> <p>PSO-6. Understand good laboratory practices and safety.</p> <p>PSO-7. Carry out experiments in the area of organic analysis, estimation, separation, derivation process, conduct metric and potentiometric analysis.</p> <p>PSO-8. Understand Vibrational and Molecular Spectroscopy.</p> <p>PSO-9. Learns the basic concepts of NMR and Mossbauer Spectroscopy.</p> <p>PSO-8. Study various analytical techniques like Conductometry, potentiometry, Coulometry and Atomic Absorption Spectroscopy.</p> <p>PSO-9. Learn about nanomaterials, its synthesis and applications.</p> <p>PSO-10. Study Solid state chemistry and superconductors.</p> <p>PSO-11. Study the Quantum Mechanical aspects of chemical bonding.</p> <p>PSO-12. Understand disconnection approach and ring synthesis.</p> <p>PSO-13. Learn various extraction techniques for natural products.</p> <p>PSO-14. Study the mode of action of drugs.</p>



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	PSO-15. Learn about antibiotics, analgesics and antipyretics.
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Department of Physics

M. Sc. Physics

Program Outcome (PO's)

A postgraduate of the M.Sc. (Physics) Program will demonstrate:

A postgraduate of the M.Sc. (Physics) Program will be able to:	
PO1	Develop understanding and skills in Physics for critical assessment of a wide range of ideas and complex problems and issues relating to the various sub fields of Physics.
PO2	Communicate effectively in terms of oral and written scientific communication to exhibit experimental results and conceptual ideas.
PO3	Apply mathematical and computational tools to draw valid conclusions to problems relating to Physics.
PO4	Understand the issues of laboratory safety, intellectual property, environmental contexts and sustainable development.
PO5	Address one's own learning needs relating to current and emerging areas of study relating to Physics, making use of research, development and professional materials as appropriate, including those related to new frontiers of knowledge in Physics.

Program Specific Outcome:

A postgraduate of the M.Sc. (Physics) Program will be able to:	
PSO-1	Demonstrate comprehensive knowledge about materials, including current research/ literature, relating to essential and advanced learning areas pertaining to various subfields in Physics.
PSO-2	Plan and execute Physics-related experiments or investigations, analyze and interpret data/information collected using appropriate methods.
PSO-3	Demonstrate subject-related and transferable skills that are relevant to some of the Physics related jobs and employment opportunities.



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Department of Mathematics

Programme Outcomes of M.Sc. in Mathematics

PO-1 Mathematical Knowledge: Demonstrate an understanding of the basic concepts in various areas of mathematics and their uses in the solution of some real life problems. Provide a systematic understanding of the concepts and theories of mathematics and their applications to an advanced level and enhance career in field of mathematics.

PO-2 Problem Analysis and Solution: Develop the ability to apply mathematical ideas to investigate the complex physical problems and the use of mathematical techniques to solve them.

PO-3 Logic and Critical Thinking: Think critically with abstract reasoning and to develop a logically correct mathematical argument. Develop the ability to make ideas precise by formulating them mathematically, analyze and interpret technical arguments. Criticize mathematical arguments developed by themselves and others.

PO-4 Communication: Communicate mathematical thoughts and ideas with the community in both oral and written format, computing and graphical means. Explain mathematical information graphically, symbolically, numerically. Develop the ability of mathematical writing and make effective presentations.

PO-5 Lifelong learning: Recognize the need to engage in lifelong learning through continuing education and research.

PO-6 Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and computing tools such as MATLAB, C-Language etc. with an understanding of the limitations.

PO-7 Research Proposal: Design and deliver a significant research work. Demonstrate the necessary skills and knowledge of their chosen research area. Understand the philosophy of research in mathematics.

Program specific outcomes of M.Sc. in Mathematics

PSO-1 Understanding of the fundamental axioms in mathematics and capability to develop ideas based on them

PSO-2 Provide knowledge of a wide range of mathematical techniques and application of mathematical methods/tools in other scientific and engineering fields.

PSO-3 Provide advanced knowledge in pure and applied mathematics, empowering the students to pursue higher studies or research work.

PSO-4 Guide students for preparation of competitive exams e.g. NET, GATE, etc.



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M.Sc. (Zoology) Program Outcomes:

Upon completion of M.Sc. Degree Programme, the students will be able to:

- PO1 – Gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms
- PO2 – Analyse complex interactions among the various animals of different phyla, their distribution and their relationship with the environment
- PO3 – Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
- PO4 – Understands the complex evolutionary processes and behaviour of animals
- PO5 – Correlates the physiological processes of animals and relationship of organ systems
- PO6 – Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species
- PO7 – Gain knowledge of Small Scale industries like sericulture, fish farming and vermicompost preparation.
- PO8 – Understands about various concepts of genetics and its importance in human health
- PO9 – Apply the knowledge and understanding of Zoology to one's own life and work
- PO10 – Develops empathy and love towards the animals
- PO11 – Prepare successful professionals in industry, government, academia, research, entrepreneurial pursuits and consulting firms and face and succeed in high level competitive examinations like NET, GATE.
- PO12 – Enhancing the technical skills for experimental purposes.



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Department of Botany

Program Outcomes of M. Sc. Botany

PO-1	Critical Thinking: Impart ability to formulate hypothesis and constraint condition for analyzing the situation, problem and arrive at an informed reasoned decision (intellectual, professional, social & personal) taking care of different perspectives.
PO-1	Knowledge of Flora Understanding the climatic zone, plant classification and succession, identification and differentiation, different tools & techniques and the application of same in real world and chosen professional field.
PO-2	Analysis and Interpretation Of finding generated through taxonomical, botanical, laboratory, gene culture, statistical studies and other tools & techniques used in subject.
PO-3	Communication Skills Read, listen and understand the core idea/meaning of the received communication and clearly speak, write or communicate the thoughts, idea, reasons, findings etc. Ensure dispute resolution and team building for collaborative works.
PO-4	Ethics: Understand the value system diversity and its acceptance. Awareness about ethics involved in study and research in different subjects. Know the regulatory framework such as



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	biodiversity convention, biodiversity conservation, environmental and ecological frameworks etc.
PO-5	Environment and Sustainability: Perception of environmental impacts and sustainability issues in plant diversity, assessment, conservation and economic utilization of floral resources.
PO-6	Self-directed and Life-long Learning: Understand the need of and develop the ability to continual, unassisted, life-long learning in fast changing socio- technological developments.

Program Specific Outcome:

- PSO-1 Students understand classification, evolution & life cycle of lower to higher plants and their economic and ecological importance
- PSO-2 Knowledge about the cell, its structure, cell organelles & their functions
- PSO-3 Understanding of plant physiology & biochemistry, role of secondary metabolites, adaptation in plants in different stress conditions,
- PSO-4 Acquaintance about morphological, anatomical & reproductive characters of plants, identification of different plant families and their systematic
- PSO-5 To understand plant diseases & their control, microbiology.
- PSO-6 Gaining of knowledge about environment, plant ecology, traditional knowledge, herbal drugs
- PSO-7 Understanding plant genetics & inheritance, plant tissue culture


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M.Sc. (Zoology) Program Specific Outcomes (PSO):

PSO1: Developing deeper understanding of key concepts of biology at biochemical, molecular and cellular level, physiology and reproduction at organismal level, and ecological impact on animal behavior.

PSO2: Elucidation of animal-animal, animal-plant, animal-microbe interactions and their consequences to animals, humans and the environment.

PSO3: Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology

PSO4: Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) for the major groups of animals.


PSO5: Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit. Explained how animals function and interact with respect to biological, chemical and physical processes in natural and impacted environments.

PSO6: Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, tools and techniques of Zoology, Toxicology, Biochemistry, Animal biotechnology, Immunology and research methodology.

PSO7: Learning handling DNA sequence data and its analysis which equip students to get employed in R&D in the industry involved in DNA sequencing services, diagnostics, and microbiome analysis.

PSO8: Understanding relationships of variations in phenotypic expression of genomes and their genome wide interaction with other organisms.

PSO9: Development of an understanding of zoological science for its application in apiculture, aquaculture and agriculture including pest management vermicompost.


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PSO10: Development of theoretical and practical knowledge in handling the animals and using them as model organism

PSO11: Gains knowledge about research methodologies, effective communication and skills of problem solving methods

PSO12. Contributes the knowledge for Nation building.



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Department of Accountancy and Business Statistics

Programme Outcome of M.com. ABST

PO-1	Critical Thinking : Understanding the practical aspects of accounting and business statistics use effectively for the betterment of business enterprises. It helps in analyzing and evaluating the appropriate ways of accounting resources for their best use.
PO-2	Effective Communication : It helps in learning new skills to have an effective Trade and Commerce by learning the ways of working in dynamism. As to understand the aspect of dynamism in Accountancy and Business Statistics, student must be knowing the accounting, statistical, taxation, auditing attributes.
PO-3	Social Interaction : Leads to knowledge of social culture and trends to be followed in the environment. It helps in assessing the accounting competence. It encourages the student's zeal to work with positive attitude while dealing with social environment.
PO-4	Analysis and Interpretation : Students will learn relevant advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
PO-5	Ethics : Understand the various disciplines of finance, statistics, taxation, auditing. Awareness about ethics involved in different subjects enhances the understanding of ethical code of conduct and helps in differentiating between right and wrong.
PO-6	Environment and Sustainability : Understanding the Social, Economical, Technological, Political and Global environment by dealing in the subject to understand the vital role of each aspect in business cycle and its growth.
PO-7	Self-directed and Life-long Learning : Descriptive and practical learning helps in developing insights to know more about the accountancy which would help in liberal knowledge of subject. It leads to the overall development by clarity of ideas to pursue endeavors' in future which thereby helps in lifelong learning of the practical discipline to deal in accounting related activities.

Program Specific Outcomes

- Students get thorough knowledge of finance and commerce.
- Students can independently start up their own Business.
- Students will be able to do their higher education and can make research in the field of finance and commerce.
- Students can also get the practical skills to work as accountant, audit assistant, tax consultant.
- Students will be able to prove themselves in different professional exams like CA, CS, CMA.


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Programme Specific Outcomes

M.Com- Business Administration

- PSO1 To provide a systematic and rigorous learning and exposure to Banking and Finance related disciplines.
- PSO2 To train the student to develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management and Banking Transactions of a business.
- PSO3 To acquaint a student with conventional as well as contemporary areas in the discipline of Commerce.
- PSO4 To enable a student well versed in national as well as international trends.
- PSO5 To facilitate the students for conducting business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments.
- PSO6 To provide in-depth understanding of all core areas specifically Advanced Accounting, International Accounting, Management, Security Market Operations and Business Environment, Research Methodology and Tax planning.
- PSO7 Program Specific Outcome after Completing Masters in Commerce students are able to: Develop an ability to apply knowledge acquired in problem Solving.
- PSO8 Ability to work in teams with enhanced interpersonal skills and communication.
- PSO9 The students can work in different domains like Accounting, Taxation, HRM, Banking and Administration.



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Economic Administration and Financial Management Department

Programme Outcome

PO1 Critical Thinking Understand the practical aspects of banking activities and managing Finance to use effectively for the Socio-economic Development. It helps in analyzing and evaluating the appropriate ways of inculcating economic resources for their best use.

PO2 Effective Communication It helps in learning new skills to have an effective Trade and Commerce by learning the ways of working in dynamism. As to understand the aspects of dynamism in the Economy Student must be knowing the financial attributes of raising the funds and the Market structures which is an important topic of this Course

PO3 Social Interaction

Leads to have an knowledge of social culture and the trends to be followed in the environment. It helps in assessing the demand and supply forces. It encourages the Student zeal to work with positive attitude while dealing with social environment

PO4 Effective Citizenship

Finances and its Management leads to develop the key attributes like:- Knowledge, skills and abilities to groom and shape the whole personality as a valued Citizen

PO5 Ethics

Concepts of Economy of Rajasthan, ethical environment, CSR leads to develop an effective decision-making. It enhances the ethical code of conduct and differentiates between the right and wrong

PO6 Environment and Sustainability

Understanding the Social, Economic, Technological, Political and Global environment by dealing in the subject to understand the vital role of each aspect in business cycle and its growth

PO7 Self Directed and Lifelong Learning

Descriptive and practical learning helps in developing insights to know more about the Economy which would help in liberal knowledge of the subject. It leads to the overall development by clarity of ideas to pursue endeavors in future which thereby helps in lifelong learning of the particular discipline to deal in Finance and Commerce related activities



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