आयुक्तालय कॉलेज शिक्षा राजस्थान जयपुर
श्री राजेन्द्र सुरि कुन्दन जैन राजकीय महिला महाविद्यालय जालोर

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Course Outcomes (COs) – B.A

SUBJECT	COURSE	COURSE OUTCOMES
HISTORY	PART I: PAPER 1. HISTORY OFINDIA UPTO 1200 A.D. 2. INDIAN CULTURE ANDCIVILIZATION PART II: PAPER 1. HISTORY OF INDIA FROM c. 1200 – 1760 A.D. 2. WORLD HISTORY FROM 15THCENTURY TO 1945 A.D. PART III: PAPER 1. HISTORY OFINDIA FROM c. 1740-1950 A.D.	**After completing the course the students will be able to learn-** The ancient history of INDIA , Indian culture and civilization, Political and Economic condition ofancient Indiaand culture and history of Rajasthan. The students of History can work in the archaeological department, work as tour
	2. HISTORY AND CULTURE OFRAJASTHAN	guides, journalists, researchers.
POLITICAL SCIENCE	PART I: PAPER 1. POLITICALTHEORY 2.INDIAN GOVERNMENT ANDPOLITICS PART II: PAPER 1. COMPARATIVEGOVERNMENT AND POLITICS 2.REPRESENTATIVE POLITICAL THINKERS PART III: PAPER 1. INTERNATIONAL RELATIONS 2. Public Administration	Course lays thrust upon the Indian Constitution, Indian Politics and Government, Political theory, public administration and internationalrelationship.
Geography	PART II : PAPER 1. HIMAN GEOGRAPHY 2. GEOGRAPHY OF RAJASTHAN PART III : PAPER 1. ECONOMIC GEOGRAPHY 2. ENVIRONMENTAL GEOGRAPHY	**After completing the course the course the students will be able to learn-** Physiography and Physiographic division, Climat, Soil, Natural vegetation of Rajasthan. Sources of power like Coal, Petroleum, Hydroelectricity and Nuclear, Bases of international trade, barriers to trade and pattern of world trade. Conservation of natural resources like soil, water, forests, minerals and energy. National and international efforts on environmental management.

Course outcomes (COs) – B.Com.

B.Com Part I	Course I: Accounting Group I Paper I. Financial Accounting Paper II. Cost Accounting	Course II : Business Finance & Economics Group II Paper I : Business Economics Paper II: Economic Environment	Course III : Business Administration Group III Paper I: Economic Environment Management Paper II: Business Regulatory Framework
B.Com Part II	Group I Paper I. Corporate Accounting Paper II. Business Statistics	Group II Paper I. Money and Banking System Paper II. International Trade and Finance	Group III Paper I. Company Law and Secretarial Practice Paper II. Business Communication and Management
B.Com Part III	Group I Paper I. International Marketing and GST Paper II. Income tax Auditing	Group II Paper I. Financial Market Operations. Paper II. Financial Management	Group III Paper I. International Marketing

Course outcomes – B.Com Part I

After completing the course student will be able to -

- Learn need, development and definition of accounting,Advanced Problems of Partnership Firm related to Admission, Retirement & Death of Partners.
- Solve issue of Shares, Book Building Process, Buy Back of Shares, Underwriting, Redemption of Preference Shares.

- Learn various processes of insurance claims.
- Discuss the meaning of Budgets and Budgetary Control, Objectives, Merits and Limitations and Cash and Flexible Budgets.
- Acquaint with the principles of Business Economics as are applicable in business like Economic Analysis,Law of Demand,Market,Discriminating Monopoly,Factor Pricing and Theory of Interest.
- know the emerging issues in business at the national and international level in the light of the policies of liberalization and globalization like Indian Economic and International Economic Policies, Industrial Development & Industrial Policy and problems of Developing countries.
- Learn the various business regulatory acts.

Course outcomes – B.Com Part II

After completing course the students will be able to -

- Learn issue and Redemption of Debentures, Acquisition of Business,Profit Prior to Incorporation and Investment Accounts.
- Acquaint with Banking Company, Insurance Company, Electricity Company and Double Account System.
- Expert in Collection of Data, Editing, Classification and tabulation; Presentation of data - graphic and diagrammatic.
- Know about Classification of money, Money supply Components and Determinants and Measurement of Money by RBI.
- know the working of the international trade and Finance, Methods of International Payment and Settlements.
- Learn basic forms of Communicating, communication Models and processes, Theories of communication, Corporate Communication, Improving communication Practices in business communication.

Course outcomes – B.Com part III

After completing the course the student will be able to –

- Learn Income tax Auditing and International Marketing and GST
- Know the various aspects of International Market
- Acquaint with Financial Management and Financial market operation
- Learn the basics of Group discussions, Mock Interviews, Seminar, Effective Listening Exercises, Individual and Group presentation and Report writing.

Course Outcomes (COs) – B.Sc

Subject	Course	Course Outcomes
Botany	**B.Sc part I** **Paper I - Algae, Lichens and Bryophyta** **Paper II- Mycology, Microbiology and Phytopathology** **Paper III - Palaeobotany, Pteridophytes and Gymnosperms** **B.Sc. Part II** **Paper I - Taxonomy and Embryology of Angiosperms** **Paper II - Anatomy of Angiosperms,Economic Botany and Ethnobotany.**	**After completing various courses, the student will be able to:** 1. Understand the basic concepts related to Viruses, Bacteria, Fungi and Lichens 2. Learn about structure, reproduction and affinities of various Bryophytes , Know the characteristics, structure and reproduction of Pteridophytes and Understand evolution of Bryophytes, Pteridophytes and Gymnosperms. 3. Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of Plant Identification. 4 . Identify the major groups of organisms with an emphasis on plants and be able to classify them within a phylogenetic framework. 5. Identify the common plant species growing in Barmer(Rajasthan) and understand the medicinal, economical and ethnobotanical values of plants.

	Paper III - Cell Biology, Genetics, Plant Breeding and Evolution **B. Sc. Part III** **Paper I - Ecology and Environmental Biology** **Paper II- Plant Physiology and Biochemistry** **Paper III- Plant Biotechnology and Molecular Biology**	6. Explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants. 7. Understand the general structure of Cell and cell organelles. 8. Explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems. 9. Understand the mechanism of various physiological processes related to plant life. 10, Acquire knowledge about replication, transcription, translation, post transcriptional and post translational modifications, gene regulation, DNA repair mechanisms and various molecular tools and techniques like PCR, southern, northern and western blotting, recombinant DNA technology etc. They will also know the various tools and techniques related to bacterial microbiology.

Chemistry	**B.Sc. pt I** **Paper I - Inorganic chemistry** **Paper II- Organic chemistry** **Paper III-Physical chemistry** **B.Sc. pt. II** **Paper I- Inorganic chemistry** **Paper II- Organic chemistry** **Paper III - physical chemistry** **B.Sc.pt III** **Paper I - Inorganic chemistry** **Paper II- Organic chemistry** **Paper III -Physical chemistry**	1. Understand the principles of various fields of chemistry (organic, inorganic, physical, analytical, and biochemistry) Develop as independent thinkers who are responsible for their own learning. 2. Develop transferrable quantitative skills. 3. Work with others demonstrating leadership and collaborative skills. 4. Demonstrate a comprehensive understanding of the theory and practice of modern instrumentation and apply it to appropriate chemical problems. 5. Recognize potential laboratory safety concerns and address them using appropriate techniques 6. Produce scientific reports formatted for peer-reviewed publication, using the primary literature. 7. Present the results, conclusions, and relevance of scientific experiments to a specific audience.
Mathematics	**B.Sc. part I** **Paper I : Algebra and Co-ordinate Geometry of Two Dimensions.** **Paper II : Calculus** **Paper III: Co-ordinate Geometry of threeDimensions and Vector Calculus.**	1. Understand the foundations of mathematics 2. Perform basic computations in higher mathematics. 3. Read and understand middle-level proofs. 4. Write and understand basic proofs. 5. Develop and maintain problem-solving skills.

	B.Sc. pt II **Paper I: Numerical Analysis and Linear Programming.** **Paper II: Differential Equations.** **Paper III: Mechanics I (Statics and Dynamics of particle)** **B.Sc. pt III** **Paper I : Abstract Algebra** **Paper II : Analysis and Laplace Transforms** **Paper III : Mechanics II (Dynamics of Rigid Bodies and Hydrostatics)**	6. Use mathematical ideas to model real-world problems. 7. Communicate mathematical ideas with others. 8. Have experience using technology to address mathematical ideas.
Physics	**B.Sc. Pt I** **Paper I - Mechanics** **Paper II - Optics** **Paper III Electromagnetics**	1. Demonstrate an understanding of core knowledge in physics, including the major premises of classical mechanics, E&M and Modern Physics. 2. Demonstrate written and oral communication skills in communicating physics-related topics. 3. Design and conduct an experiment (or series of experiments) demonstrating their understanding of the scientific method and processes. Students will demonstrate an understanding of the analytical methods required to interpret and analyze results and

	B.Sc.Pt. II **Paper I Statistical and Thermal Physics** **Paper II Quantum Mechanics and Spectroscopy** **Paper III (A) Electronics(Except for those who opt Electronics as a subject)** **Paper III (B) Computer Systems and Networking** **B.Sc. Pt. III** **Paper I Solid State Physics** **Paper II Nuclear Physics** **Paper III Relativity and** **Electrodynamics**	draw conclusions as supported by their data. 4. Demonstrate proficiency in the acquisition of data using a variety of laboratory instruments and in the analysis and interpretation of such data. 5. Utilize a wide range of printed and electronic resources and information technologies to support their research on physical systems and present those results in the context of the current understanding of physical phenomena. 6. Demonstrate understanding of the applications of numerical techniques for modeling physical systems for which analytical methods are inappropriate or of limited utility. 7. Demonstrate a thorough understanding of the analytical approach to modeling of physical phenomena. 8 . Demonstrate an understanding of the impact of physics and science on society.

Zoology	**B. Sc Pt. I** **Paper I :Animal Diversity and Evolution** **Paper II :Biology of Non chordates** **Paper III :Cell Biology and Genetics**	1. Learning about the basic taxonomy and systematics and classification of Protozoa, Porifera,and Helminth groups. They also will acquire knowledge about the biology of these taxonomic categories as well as about some acoelomate plus pseudocoelomate parasites for their life cycles, epidemiology, pathology, diagnosis,symptoms and treatments. They will also have knowledge about the basics of parasitology such as origin and evolution of parasitism, role of vectors, parasitoids, host-parasite interactions etc. 2. Understanding the various features and aspects of population ecology, community ecology and ecosystem ecology. They might have the knowledge about environmental biology in details. They will acquire knowledge about various tools and techniques of field ecology. 3. Learning about classification of coelomate invertebrates and the structure, function plus biology of these taxonomic categories as well. They will understand about different vector born diseases and the related life cycles, epidemiology, pathology, diagnosis, symptoms and treatments. They will also know the basics of sericulture, apiculture and lac culture. 3. Understand the structures, positions and functions of plasma membrane and all cellular organelles in details. 4. Understand the classification, structure,

	B.Sc.pt. II **Paper I : Chordate Structure and function** **Paper II : Developmental Biology** **Paper III : Immunology, Microbiology and Biotechnology**	function and biology of chordates of different taxonomic classes. They will also learn some special topics like zoogeography, metamorphosis, snake bites, migration of birds, parental care of amphibian, echolocation of mammals, poultry managements and different breeds of domestic animals. 5. Learnt about basics of histology and tissue staining. They will also understand the physiology of muscles, nerves, reproductive systems and bone. They will learn details of endocrinology with classification of hormones, their biosynthesis, receptors, mode of molecular actions, physiological function, feedback controls and related disorders. 6. Understand the basic and fundamental biochemistry of carbohydrates, proteins, lipids and nucleic acids. They will also understand the nature, mechanism, and kinetics of enzyme action. Some instrumentation such as microscopy, chromatography, electrophoresis, centrifugation, spectrophotometry etc will also be learnt. 7. Understood the structures of different systems suchas, integumentary, skeletal, digestive, respiratory, circulatory, urinogenital, nervous and sensory organs in comparative way among the vertebrate groups. 8. know the physiology of digestion, respiration, circulation, excretion and adaptation.

	B.Sc. Pt. III **Paper I : Animal Physiology and Biochemistry** **Paper II : Behavior and Ecology** **Paper III : Applied Zoology**	9. Understand the metabolism of carbohydrates, lipids and proteins in details. They will also learn about oxidative phosphorylation and redox reactions. 10. Developknowledge about structures and function of immune cells, immunoglobulins, antigens and their interactions with antibodies. They will know about MHC molecules, cytokines, hyper sensitivity reactions and cellular mode of immunity development. They will know the immune diffusion technique. 11. Learn details about taxonomy and biology insect pests as well as theirs interactions with crops and their management policies in detail.