Course Outcomes/ Learning outcomes

CLASS	SUBJECT: Students shall be able to learn about the following as per the subjects:				
	Zoology	**Botany**	**Chemistry**	**Physics**	**Mathematics**
BSc. Pt I	• General characters and classification of animal Kingdom. • Biodiversity of Animals & their economic importance. • Detailed structure & functions of Cell. • Basic concept & structure of Genes & molecular basis of genetic material. • Mechanism of differentiation and growth in animals.	• Basic study of lower group of plants;Algae, Fungi, Bryophytes. • Plant cell structure and function. • Knowledge of crop improvement	• Comparative study of elements of periodic table. • Structure, Bonding, mechanism and stereochemistry of organic compounds. • States of matter and kinetics of chemical reaction.	• Basic concepts of Mechanics • Theory of Relativity. • Principles of Electro magnetism & its applications. • Interpretation of optical principles in knowing basic scientific explanations of practical experience.	Able to demonstrate an understanding of : • Discrete mathematic, calculus, optimization theory. • To use mathematically correct terminology and notation. • To apply the theory and methods of these fields to solve a variety of different problems.
BSc. Pt II	• Morphological and physiological aspects of invertebrate animals. • Basic physiological mechanism of organ systems with reference to mammals. • Concept and functions of immune system. • Fundamental characteristics of microorganisms & their use in various applications.	• Basic knowledge of Gymnosperms, Ferns and Temperate plants. • Physiological and Biochemical processes with reference to plant types. • Plant Tissue culture and its applications.	• Identification of organic compounds by spectroscopic techniques. • Nomenclature of coordination compounds. • Principle and application of thermodynamics and electrochemistry.	• Principles of Thermodynamics and its application. • Principles of equipartition of energy. • Quantum statistics. • Mathematical applications in understanding of special theory of relativity. • Uses & applications of Electronics in	• Use of mathematically correct notation when writing and solving ordinary and partial differential equations. • Make appropriate use of mathematical terminology. • Classify differential equations. • Understanding of numerical methods. • Apply various theorems of

	• Concepts, techniques & application of genetic engineering.			general scientific equipments and its functions. • Applications of basics in building of innovative models.	analysis. • Able to solve algebraic equations, differential equations and integration.
BSc. Pt III	• Morphological and physiological aspects of chordates. • Scientific analysis and study of interaction among organisms and environment. • Application of statistical methods and processes in biological field studies based on data compilation and evaluation.	• Basis of Classification of Higher plants. • Study of Embryology. • Knowledge of Medicinal plants. • Plant ecosystem	• Understanding of heterocyclic compounds and natural products. • Transition metal complexes and organo-metallic compounds. • Concept of Quantum mechanics, nuclear and photo chemistry.	• Basics of Quantum mechanics. • Evolution of quantum physics. • Atomic and molecular spectroscopy. • Understanding of basic nuclear physics: Radioactivity, Radiation, Nuclear Fission and fusion. • Concept of crystallography and diffraction & its applications. • Basic structure of semiconductors & its use. • Electronic properties of materials.	• Use of correct terminology and notation in various branches of mathematics. • Apply mathematics creatively and think critically. • Use technology to support the study of mathematics. • Construct correct direct and indirect proofs. • Use division into cases in proofs, give counter examples, apply logical reasoning to solve a variety of problems.
MSc. Chemistry	• Stereochemistry and reaction mechanism of different kinds of reactions. • Electronic spectra and important properties of transition metal complexes. • All the main branches of physical chemistry with group theory and spectroscopy. • Application of Spectroscopy and organic synthesis				

CLASS	SUBJECT: Students shall be able to learn about the following as per the subjects:		
	EAFM	**ABST**	**Bus. Administration**
BCom. Pt I	• Enhancement of knowledge of banking system. • Basic uses of principles of economics in business and trade at micro & macro level.	• Understanding of Basic and advance accounts system and statistical approach in Business	• Knowledge of basic business laws/ commercial laws. • Understanding of legal implications of the general activities of a modern business organization. • Awareness and importance of Entrepreneurship. • Means and modes of self employment: significance and opportunities.
BCom. Pt II	• Uses of techniques of financial statements. • Focus on State economy: Programmes run by the State Government for development of rural sector. • Budgeting system in public sector & private sector.	• Knowledge of Income Tax system. • Uses of Cost accountancy for business organization. • Tax computation.	• Updating about Company laws. • Understanding SEBI guidelines and its usage. • Drafting of documents. • Knowledge about management: policies and practices
BCom. Pt III	• Knowledge about different sectors of Indian economy: Agriculture, Industrial,	. • Knowledge of Auditory and management accounting and advance accounting specially for corporate	• Understanding the functional areas of management. • Specific tasks for achieving efficiency. • Planning strategies for Sales. • Promoting strategies and mechanisms for Advertising management.

	Foreign Trade, public sector transportation etc. • Awareness about rural and urban economic development	and non-profit organization.	
MCom.(EAFM)	• Understanding of the economic system in India. • Uses of laws of economics regarding demand, consumption, market and production. • Role of public enterprises in the economy. • The economic policies and administrative system.		
MCom.(ABST)	• Understanding and analysis of Direct Tax system in India. • The advance cost system. • Knowledge of indirect Tax(GST) system in India. • Tax planning and Cost management Audit		
MCom.(Bus.Admn.)	• Different aspects of financial management in a comprehensive way. • Fundamentals of marketing concepts and their applications. • Understanding of tools & techniques of managerial economics in relevance of decision making. • Business and Indian constitution, business ethics& morality.		