

B.Sc. ZOOLOGY – PROGRAM SPECIFIC OUTCOMES (PSO)

PSO	PROGRAMME SPECIFIC OUTCOMES (PSO)
PSO1	Provides basic knowledge of various disciplines of Zoology and General Biology meant both for a graduate terminal course and for higher studies
PSO2	Make the students an interest in nature and love nature
PSO3	Understand the rich diversity of organisms and their ecological and evolutionary significance
PSO4	Imbibe basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation
PSO5	Gives awareness on the internal harmony of different body systems and the need for maintaining good health through appropriate lifestyle
PSO6	Acquire basic knowledge and skills in certain applied branches for self employment
PSO7	Impart awareness of the conservation of the biosphere

B.Sc. ZOOLOGY – COURSE OUTCOMES (CO)

SEMESTER	PAPER CODE	TITLE OF PAPER	CO	COURSE OUTCOME
Semester I	ZY1CRT01	General Perspectives In Science & Protistan Diversity	CO1	Provide awareness on the basic philosophy of science, concepts and scope
			CO2	Understand different levels of biological diversity through the systematic classification
			CO3	Familiarize taxa level identification of Kingdom Protista
			CO4	Make interest in Protistan diversity
			CO5	Impart knowledge on parasitic forms of lower invertebrates
Semester II	ZY2CRT02	Animal Diversity - Non Chordata	CO1	Create appreciation on diversity of life on earth
			CO2	Understand different levels of biological diversity through the systematic classification of invertebrate fauna
			CO3	Familiarize taxa level identification of animals
			CO4	Understand the evolutionary significance of invertebrate fauna
			CO5	Instill curiosity on invertebrates around us
			CO6	Impart knowledge on parasitic forms of lower invertebrates

Semester III	ZY3CRT03	Animal Diversity –Chordata	CO1	Understand different levels of biological diversity of vertebrate fauna
			CO2	Acquire in depth knowledge on the diversity of chordates and their systematic position
			CO3	Make them aware of the economic importance of some classes
			CO4	Understand the evolutionary importance of selected chordate groups
Semester IV	ZY4CRT04	Research Methodology, Biophysics And Biostatistics	CO1	Familiarize the learner the basic concept of scientific method in research process
			CO2	To have knowledge on various research designs
			CO3	Develop skill in research communication and scientific documentation
			CO4	Create awareness about the laws and ethical values in biology
			CO5	Equip the students with the basic techniques of animal rearing collection and Preservation
			CO6	Help the student to apply statistical methods in biological studies
Semester V	ZY5CRT05	Environmental Biology And Human Rights	CO1	Instill the basic concepts of Environmental Sciences, Ecosystems, Natural Resources, Population, Environment and Society
			CO2	Make the students aware of natural resources, their protection, conservation, and the factors polluting the environment, their impacts and control measures
			CO3	Formulate the concepts of toxicology, their impact on human health and remedial measures
			CO4	Create a consciousness regarding Biodiversity, environmental issues & conservation strategies

			CO5	Develop the real sense of Human rights – its concepts & manifestations
Semester V	ZY5CRT06	Cell Biology And Genetics	CO1	Analyze the structure and function of the cell as the fundamentals for life
			CO2	Understanding the functioning of all living organisms
			CO3	Make aware of different cell organelles, their structure and role in living organisms
			CO4	Analyze the concept of recombination, linkage mapping and elucidate the gene transfer mechanisms in prokaryotes and eukaryotes
			CO5	Emphasize the central role of genes and their inheritance in the life of all organisms
Semester V	ZY5CRT07	Evolution, Ethology & Zoogeography	CO1	Acquire knowledge about the evolutionary history of earth - living and nonliving
			CO2	Formulate evolutionary concepts and theories
			CO3	Specify the distribution of animals on earth, its pattern, evolution and causative factors
			CO4	Conceive knowledge on animal behavioural patterns and their role
Semester V	ZY5CRT08	Human Physiology, Biochemistry, And Endocrinology	CO1	Provide students with a deep knowledge in biochemistry, physiology and endocrinology
			CO2	Design the basic principles of biochemistry useful for illustrating different kinds of food, their structure, function and metabolism
			CO3	Operate various aspects of physiological activities of animals with reference to humans
			CO4	Analyse hormonal regulation of physiological processes in invertebrates and vertebrates
			CO5	Architect the experimental methods and designs that can be used for further study and research

Semester VI	ZY6CRT09	Developmental Biology	CO1	Understand reproductive cycles and stages of early embryogenesis
			CO2	Build reproductive health and importance of sex education
			CO3	Determine the experimental methods and designs that can be used for future studies and research
			CO4	Analyse the differentiation processes that generate an organism's heterogeneous shapes, size, and structural features from embryo to adult.
Semester VI	ZY6CRT10	Microbiology And Immunology	CO1	Understand the basic microbial structure and function of prokaryotes and eukaryotes and also various physiological groups of bacteria/archaea.
			CO2	Understand various Culture media and means of sterilization
			CO3	Know microbial techniques for isolation of pure cultures of bacteria, fungi and algae.
			CO4	Master aseptic techniques and be able to perform routine culture handling tasks safely and effectively.
			CO5	Outline, compare and contrast the key mechanisms of antigen presentation, immunological diversity and the generation of innate and adaptive immune responses
			CO6	Understand the principles governing immunodeficiency, allergy and allergic diseases and vaccination to protect against disease
Semester VI	ZY6CRT11	Biotechnology, Bioinformatics And Molecular Biology	CO1	Understand the structure and properties of genes in living organisms at the molecular level
			CO2	Conceive the significance of central dogma of gene action

			CO3	Discuss the molecular mechanisms underlying mutations, detection of mutations and DNA damage and repair mechanisms
			CO4	Handle and independently work on lab protocols of molecular techniques and methods of biotechnology
			CO5	Understand the principles and practices of biotechnology
			CO6	Build responsible biotechnologists that can work within the interdisciplinary framework
			CO7	Gain an understanding of the basic concepts and tools of Bioinformatics
Semester VI	ZY6CRT12	Occupational Zoology . (Apiculture, Vermiculture, Quail Farming & Aquaculture)	CO1	Build basic knowledge apiculture, vermiculture, quail farming & aquaculture
			CO2	Equip the students with self employment capabilities
			CO3	To make the students aware of cottage industries
			CO4	Design scientific knowledge of profitable farming
ELECTIVE COURSE	ZY6CBT04	Nutrition, Health And Lifestyle Management	CO1	Build students with a general principles and concept of parameters of health and wellness
			CO2	Familiarize the students regarding food safety, food laws & regulations
			CO3	Provide knowledge and understanding regarding life style diseases. Develop health literacy among students
			CO4	Promote an understanding of the value of good life style practices, physical fitness and healthy food habits for life style disease management
			CO5	Develop health literacy among students