



**Programme Outcomes (PO),  
Programme Specific Outcomes (PSO)  
And Course Outcomes (CO)**

**Department of Zoology**



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Programme Outcomes (PO), Programme Specific Outcomes (PSO) and Course Outcomes (CO) for **B.Sc. Zoology**.

<b>Department of Zoology</b>	After successful completion of three-year degree program in zoology a student should be able to;
<b>Programme Outcomes (PO) B.Sc. (Zoology)</b>	<p>PO-1. Gain knowledge and skill in the fundamentals of animal sciences.</p> <p>PO-2. Analyze complex interactions among the various animals of different phyla, their distribution and their relationship with the environment.</p> <p>PO-3. Understand importance of environmental conservation processes, pollution control, biodiversity and protection of endangered species.</p> <p>PO-4. Gain knowledge of Agro based small scale industries like sericulture, apiculture, and fish farming.</p> <p>PO-5. Design different public health strategies for social welfare through practical and theoretical skills gained in this program.</p> <p>PO-6. Apply the knowledge and understanding of Zoology to one's own life and work.</p> <p>PO-7. Develop empathy and love towards the animals.</p>
<b>Programme Specific Outcomes (PSO) B.Sc. (Zoology)</b>	<p>PSO-1. Gain the knowledge of Zoology through theory and practical.</p> <p>PSO-2. Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Medicine.</p> <p>PSO-3. Understand good laboratory practices and safety.</p> <p>PSO-4. Develop research-oriented skills.</p> <p>PSO-5. Acquire basic experimental skills in various techniques in the fields of genetics; molecular biology; biotechnology; microscopy; enzymology and biochemistry.</p>
<b>Course Outcomes (CO) B. Sc. (Zoology) First Year</b>	
<b>Course</b>	<b>Outcomes</b> After completion of these courses students should be able to;
<b>Animal Diversity (ZOOL 101 TH)</b>	<p>CO-1 Describe general taxonomic rules on animal classification.</p> <p>CO-2. Learn conceptual knowledge of vertebrates, their adaptations and associations in relation to their environment.</p> <p>CO-3. Describe complex vertebrate interactions.</p> <p>CO-4. Classify and characterize phylum Protozoa up to phylum Vertebrata.</p>
<b>Comparative Anatomy and Developmental Biology of Vertebrates (ZOOL 102 TH)</b>	<p>CO-1. Learn the structures of systems such as, integumentary, skeletal, digestive, respiratory, circulatory, urinogenital, nervous and sensory organs in comparative way among the vertebrate groups.</p> <p>CO-2. Develop the basic concepts of development.</p> <p>CO-3. Explain the fundamental concept of embryogenesis and Organogenesis.</p> <p>CO-4. Describe the developmental model systems- invertebrates and vertebrates.</p>

<b>Second Year</b>	
<b>Physiology and Biochemistry (ZOOL 201 TH)</b>	CO-1. Understand the detailed concepts of digestion, respiration, excretion, and the functioning of nerves and muscles. CO-2. Learn the concepts of endocrine systems and homeostasis. CO-3. Understand the mechanisms that work to keep the human body alive and functioning. CO-4. Interactions and interdependence of physiological and biochemical processes.
<b>Genetics and Evolutionary Biology (ZOOL 202 TH)</b>	CO-1. Understand Mendelian and non Mendelian inheritance. CO-2. Concept behind genetic disorder, gene mutations- various causes associated with inborn errors of metabolism. CO-3. Explain theories of evolution. CO-4. Understand eras and evolution of species.
<b>Medical Diagnostics (ZOOL 203 TH)</b>	CO-1. Understand importance of medical diagnostics. CO-2. Understand methods used for analysis of blood and urine. CO-3. Explain infectious and non-infectious diseases. CO-4. Understand tumors.
<b>Apiculture (ZOOL 204 TH)</b>	CO-1. Understand biology of bees. CO-2. Study rearing of bees. CO-3. Bee economy and diseases and enemies. CO-4. Understand entrepreneurship in apiculture.
<b>Third Year</b>	
<b>Applied Zoology {ZOOL 301 (A) TH}</b>	CO-1. Understands host-parasite relationship. CO-2. Study epidemiology of diseases. CO-3. Study parasitic Protozoa and helminthes. CO-4. Gain knowledge of insects of economic importance and medical importance.
<b>Insect, Vectors and Diseases {ZOOL 302 (A) TH}</b>	CO-1. Gain knowledge of insects which acts as vectors. CO-2. Study disease vectors of Diptera. CO-3. Study disease vectors of Siphonaptera. CO-4. Study disease vectors of Siphunculata. CO-5. Study disease vectors of Hemiptera.
<b>Sericulture (ZOOL 303 TH)</b>	CO-1. Study biology of silkworm. CO-2. Gain knowledge of silk worm rearing, mulberry cultivation. CO-3. Gain knowledge about pests and diseases of silkworms. CO-4. Entrepreneurship in sericulture.
<b>Aquarium fish Keeping {ZOOL 304 (A) TH}</b>	CO-1. Gain knowledge about biology of aquarium fishes. CO-2. Gain knowledge of food and feeding of aquarium fishes. CO-3. Study fish transportation methods. CO-4. Provides knowledge of ornamental fish breeding which is highly professional and attractive avenue for youth.