



**University of
Technology**
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Syllabus

Course Outcomes

Of

Department of Zoology

Department of Zoology

Course Code	Name of the Course	Course Outcomes
BCBZ 111	Diversity of Animals	Explain the principles of taxonomy, five kingdom classification system and international nomenclature codes. Analyze the evolutionary relationships and adaptations of representative species from Ctenophora, Platyhelminthes, Aschelminthes, and Annelida
BCBZ 112	Cell Biology and Genetics	Describe the morphology, structure, and functions of Prokaryotic and Eukaryotic Animal Cell. Analyze the structure and functions of Cytoplasmic organelles, including Mitochondria, Endoplasmic Reticulum, Golgi Complex, Lysosomes, and Cytoskeletal Elements
BCBZ 113	Gamete and Developmental Biology	Explain the cleavage patterns and significance in various organisms, analyze fate maps and morphogenetic movements, and understand the significance of gastrulation in embryonic development.
BCBZ-211	Structure and Function of Invertebrate Types	Describe the Habit, Habitat, Morphology, Structure, Organs and Systems, Life Cycle, and Affinities and Adaptations of various invertebrate groups, including Arthropoda and Onychophora

BCBZ-212	Animal Physiology and Biochemistry	Describe the physiological mechanisms of nerve impulse transmission and reflex actions, including the roles of neurons, synapses, and neurotransmitters in coordinating rapid responses.
BCBZ 213	Immunology, Microbiology & Biotechnology	Describe the fundamental components and functions of the immune system, including innate and acquired immunity, and explain the structure and function of antigens and antibodies, and their roles in immune responses.
BCBZ 311	Structure and Functions of Chordate Types	Describe chordates with special reference to Herdmania and Branchiostoma. Explain the affinities of Hemichordata, Urochordata, and Cephalochordata, and describe the habit, habitat, and key features of Petromyzon and its Ammocoete Larva
BCBZ 312	Ecology, Environmental Biology and Evolution	Grasp fundamental ecological concepts, including ecosystem structure, biotic and abiotic factors, ecological pyramids, and biogeochemical cycles, and understand their roles in ecosystem function and homeostasis
BCBZ 313	Applied Zoology, Ethology and Biostatistics	Understand and apply the principles and practices of various Applied Zoology fields, including Vermiculture, Sericulture, Lac Culture, Apiculture, Prawn Culture, and Poultry keeping. Evaluate the methods of studying animal behaviour, and the characteristics