Complementary Course Outcome

ZOOLOGY

Name of the paper	Course outcome
Sem I- Animal Diversity and Wildlife	• Describe the general characters of protists and salient features • Enumerate the salient features and examples of Phylum – Porifera, Coelenterata, Platyhelminthes, Aschelminthes, Annelida, Arthropoda, Onychophora, Mollusca and Echinodermata • Describe structural organization of Peneaus sp. • Describe the characteristic features and classification of phylum Chordata with examples and, structural organization of Oryctolaguscuniculus • Explain levels of biodiversity, threats to biodiversity, biodiversity hotspots, importance and strategies for conservation of wildlife and sustainable development
Sem II- Economic Zoology	• Explain parasitism and major insect vectors of human diseases and their control • Understand major beneficial and harmful insects, damages caused to host plants and their control measures • Understand pisciculture, prawn, mussel and pearl culture
Sem III- Physiology,Toxicology and Ethology	• Describe the structure of plasma membrane and the various trans-membrane transport mechanisms • Enumerate mechanism of digestion and absorption of carbohydrates, proteins and lipids and the regulation of gastrointestinal function • Explain the mechanism of transport of respiratory gases, control of respiration, respiratory problems and artificial ventilation • Explain the structure and working of human heart and mechanism of regulation of heart beat; constituents of human blood and blood transfusion and cardiovascular problems • Illustrate hormonal control of kidney function and kidney disorders; osmoregulation and urea cycle • Enumerate the structure of myofibrils and myofilaments; muscle contractile and regulatory proteins and mechanism of muscle contraction • Explain different types of nerve cells and glial cells, maintenance of resting membrane potential, generation and propagation of action potential and synaptic transmission • Describe innate behavior, learned behavior, patterns of behavior and factors that affect behavior • Enumerate biological rhythms, communication in animals and social organization in mammals
Sem IV Genetics and Immunology	• Describe human karyotype , chromosomal anomalies and polygenic inheritance • Explain the mechanisms of sex determination

	• Enumerate the concept of genes, gene expression, genetic code, transcription and translation • Illustrate the mechanism of recombinant DNA technology and its practical applications • Explain the types of cancer, causes of transformation and characteristics of transformed cells • Identify the cells and organs of immune system, antigens and antibodies • Enumerate antigen-antibody interaction and major immunotechniques • Explain primary and secondary immunodeficiency diseases, autoimmune diseases, vaccination and vaccines