Government Degree College(A)

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

Tuni, Kakinada District

Course Outcomes - Zoology

PAPER- I ANIMAL DIVERSITY – BIOLOGY OF NONCHORDATES

CO-1 : Describe general taxonomic rules on animal classification
CO2: Classify Protozoa to Coelenterate with taxonomic keys
CO3: Classify Phylum Platy helminthes to Annelida phylum using examples from parasitic adaptation and vermin composting
CO4: Describe Phylum Arthropod to Mollusca using examples and importance of insects and Mollusca's
CO5: Describe Echinodermata to Hemi chordate with suitable examples and larval stages in relation to the phylogeny

PAPER- II Animal Diversity Chordates

CO1: Describe general taxonomic rules on animal classification of chordates
CO2: Classify Protochordata to Mammalia with taxonomic keys
CO3: Understand Mammals with specific structural adaptations
CO4: Understand the significance of dentition and evolutionary significance
CO5: Understand the origin and evolutionary relationship of different phyla from Prochordata to mammalia.

PAPER- III CELL BIOLOGY, GENETICS, MOLECULAR BIOLOGY AND EVOLUTION

CO1: To understand the basic unit of the living organisms and to differentiate the organisms by their cell structure.
CO2: Describe fine structure and function of plasma membrane and different cell organelles of eukaryotic cell.
CO3: To understand the history of origin of branch of genetics, gain knowledge on heredity, interaction of genes, various types of inheritance patterns existing in animals
CO4: Acquiring in-depth knowledge on various of aspects of genetics involved in sex determination, human karyo typing and mutations of chromosomes resulting in various disorders
CO5: Understand the central dogma of molecular biology and flow of genetic information from DNA to proteins.
CO6: Understand the principles and forces of evolution of life on earth, the process of evolution of new species and apply the same to develop new and advanced varieties of animals for the benefit of the society.

PAPER- IV ANIMAL PHYSIOLOGY, CELLULAR METABOLISM AND EMBRYOLOGY

CO1: Understand the functions of important animal physiological systems including digestion, cardio-respiratory and renal systems.
CO2: Understand the muscular system and the neuro-endocrine regulation of animal growth, development and metabolism with a special knowledge of hormonal control of human reproduction.
CO3: Describe the structure, classification and chemistry of bio molecules and enzymes responsible for sustenance of life in living organisms
CO4: Develop broad understanding the basic metabolic activities pertaining to the catabolism and anabolism of various bio molecules
CO5: Describe the key events in early embryonic development starting from the formation of gametes up to gastrulation and formation of primary germ layers.

PAPER- V ANIMAL BIO TECHNOLOGY

CO1: appreciate the variety of aspects that are existing in the biotechnology for the human welfare

CO-2: appreciate the various concepts of animal husbandry

PAPER- VIII-A AQUACULTURE

CO1: Understand the concepts and applications of immune system.

PAPER- VIII B- AQUACULTURE MANAGEMENT

CO1: Understand the management practices adopted in the aqua industry**.**

PAPER- VIII C- POSTHERVEST TECHNOLOGY

CO1: Understand the various technologies related to post harvesting in aquaindustry.