



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 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 aqua industry.