

**VISVODAYA GOVT. DEGREE COLLEGE, VENKATAGIRI
SPSR. NELLORE DISTRICT**

DEPARTMENT OF ZOOLOGY

SEMESTER – I, PAPER – I : ANIMAL DIVERSITY - NONCHORDATES

- CO1:** To provide knowledge about protozoa and porifera with respective examples like *Elphidium* Sponges.
- CO2:** To understand the life cycles of *Obelia* and *Fasciola* and Economic importance of Corals.
- CO3:** To study the characters of Helminthes and Annelida and economic importance of Vermicompost.
- CO4:** To understand the systemic and functional morphology of Arthropoda, Mollusca and economic importance of aqua culture and pearl formation. **CO5:** To acquire knowledge about star fish and Nonchordata larval forms.

SEMESTER – II, PAPER – II : ANIMAL DIVERSITY - CHORDATES

- CO1:** To learn about Prochordata with all Physiological aspects and significance.
- CO2:** To gain knowledge about cyclostomata and pisces with all physical properties and anatomy.
- CO3:** Fundamental concepts of amphibians, reptilia with illustrations.
- CO4:** To understand physiology of aves, migration and flight adaptations in birds.
- CO5:** To gain knowledge about mammalia and dentition in mammals.

SEMESTER – III, PAPER – III : CYTOLOGY – GENETICS AND EVOLUTION

- CO1:** To know the fundamental concepts of prokaryotic and eukaryotic cells.
- CO2:** Complete knowledge about cell organelles like E.R, Golgi. Lysosomes, Ribosomes, Mitochondria, Nucleus and Chromosomes.
- CO3:** To study Mendel's work on transmission on traits and principles of inheritance.
- CO4:** To know about Sexidetermination and chromosomal disorders.
- CO5:** Familiar with the evolutionary concepts like Lamarckism, Darwinism and evolutionary forces.

SEMESTER–IV, PAPER–IV : EMBRYOLOGY, PHYSIOLOGY & ECOLOGY

- CO1:** Acquire knowledge about developmental biology and embryology in chick and types, functions of placenta in mammals.
- CO2:** To know the concepts of digestion respiration, circulation and other physiological activities of mammals.
- CO3:** To study Nerve impulse transmission, muscle contraction, Hormones and Hormonal control of reproduction in a mammal.
- CO4:** To understand the ecosystem and importance of abiotic factors and biotic interactions.
- CO5:** To acquire knowledge about community interactions, concepts of Zoogeography and Zoogeographical importance of oriental, Australian and Ethiopian regions.

SEMESTER–V : PAPER–V : ANIMAL BIOTECHNOLOGY

- CO1:** To gain knowledge about DNA technology and its applications.
- CO2:** Familiar with concepts and applications with suitable skills in biotechnology.
- CO3:** To gain good knowledge about animal cell technology, hybridoma technology and stem cells with suitable illustrations.
- CO4:** To learn different types of reproduction technologies and transgenic animals and their applications.
- CO5:** Proficiency and understanding basic concepts of applied biotechnology in different fields.

SEMESTER–V, PAPER–VI : ANIMAL HUSBANDRY

- CO1:** to gain knowledge about poultry farming.
- CO2:** To learn about poultry feed management and poultry diseases, useful to the students for poultry farming.
- CO3:** To know about selection, care and handling of hatching eggs.
- CO4:** Complete knowledge of breeds and dairy cattle and buffaloes to improve practical skills such as dairy farm.
- CO5:** To know the principles of care and management of dairy animals.