

SGK Government Degree College

Vinukonda, Guntur Dist

DEPARTMENT OF ZOOLOGY

COURSE OUTCOMES

S.NO	Cours e Code	Course Name	Co Number	COURSE OUTCOMES
1	ZOO1SK	Animal Diversity – Biology of Nonchordates	1	Describe general taxonomic rules on animal classification
			2	Classify Protozoa to Coelenterata with taxonomic keys
			3	Classify Phylum Platy hemninthes to Annelida phylum using examples from parasitic adaptation and vermin composting.
			4	Describe Phylum Arthropoda to Mollusca using examples and importance of insects and Molluscans
			5	Describe Echinodermata to Hemi chordata with suitable examples and larval stages in relation to the phylogeny
2	ZOO2SK	Animal Diversity – Biology of Nonchordates	1	Describe general taxonomic rules on animal classification of chordates
			2	Classify Protochordata to Mammalia with taxonomic keys
			3	Understand Mammals with specific structural adaptations
			4	Understand the significance of dentition and evolutionary significance
			5	Understand the origin and evolutionary relationship of different phyla from Prochordata to mammalia.
3	ZOO3SK	Cl Biology, Genetics, Molecular Biology and Evolution	1	To understand the basic unit of the living organisms and to differentiate the organisms by their cell structure.
			2	Describe fine structure and function of plasma membrane and different cell organelles of eukaryotic cell.
			3	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
			4	Acquiring in-depth knowledge on various aspects of genetics involved in sex determination, human karyotyping and mutations of chromosomes resulting in various disorders
			5	Understand the central dogma of molecular biology and flow of genetic information from DNA to proteins.
			6	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.

4	ZOO4SK	Animal Physiology, Cellular Metabolism and Embryology	1	Understand the functions of important animal physiological systems including digestion, cardio-respiratory and renal systems.
			2	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.
			3	Describe the structure, classification and chemistry of biomolecules and enzymes responsible for sustenance of life in living organisms
			4	Develop broad understanding the basic metabolic activities pertaining to the catabolism and anabolism of various biomolecules
			5	Describe the key events in early embryonic development starting from the formation of gametes upto gastrulation and formation of primary germ layers.
5	ZOO5SK	Immunology and Animal Biotechnology	1	To get knowledge of the organs of Immune system, types of immunity, cells and organs of immunity.
			2	To describe immunological response as to how it is triggered (antigens) and regulated (antibodies)
			3	Understand the applications of Biotechnology in the fields of industry and agriculture including animal cell/tissue culture, stem cell technology and genetic engineering.
			4	Get familiar with the tools and techniques of animal biotechnology.