ANDHRA CHRISTIAN COLLEGE: GUNTUR

DEPRTMENT OF ZOOLOGY

CO’s and PSO’s

PROGRAMME SPECIFIC OUTCOMES (PSOs)

At the end of the Programme the student will be able to

PSO 1	Interpret principles, classifications, concepts, theories and mechanisms.
PSO 2	Analyze hypothesis, procedures, properties, experimental facts and draw conclusions.
PSO 3	Apply techniques in solving problems, sample analysis and production.
PSO 4	Develop communicative competence, creative and critical thinking, practical, technical and employability skills, social sensibility and responsibility

COURSE OUTCOMES (COs)

Semester: I
Course Code: ZOO1SK
Course Name: Animal Diversity – Biology of Non-Chordates

By the completion of the course the graduate should able to:	
CO 1	Describe general taxonomic rules on animals' classification.
CO 2	Classify protozoa to Coelenterate with taxonomic keys.
CO 3	Classify phylum platy helminths to Annelid phylum using examples from parasitic adaptation and vermin composting.
CO 4	Describe phylum Arthropoda to Mollusca using examples and important of insects and, Molluscans.
CO 5	Describe Echinodermata to Hemichordate with suitable examples and laurel stages in relation to the phylogeny.

Semester: II
Course Code: ZOO2SK
Course Name: Animal Diversity - Biology of Chordates.

By the completion of the course the graduate should able to:	
CO 1	Describe general taxonomic rules on animal classification of chordates.
CO 2	Classify protochordate to mammalian with taxonomic keys.
CO 3	Understand mammals with specific structural adaptations.
CO 4	Understand the significance of dentition and evolutionary significance.
CO 5	Understand the origin and evolutionary relationship of different phyla from prochordata to mammalian.

Semester: III

Course Code: ZOO3SK

Course Name: Cell Biology, Genetics, Molecular Biology and Evolution.

By the completion of the course the graduate should able to:	
CO 1	To understand the basic unit of the living organisms and to differentiate the organisms by their cell structure.
CO 2	Describe fine structure and functions of plasma membrane and different cell organelles of eukaryotic cell.
CO 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.
CO 4	Acquiring in depth knowledge on various of aspects of genetics involved in sex determination human karyotyping and mutations of chromosomes resulting in various disorders.
CO 5	Understand the central dogma of molecular biology and flow of genetic information from DNA to proteins.

Semester: IV

Course Code: ZOO4SKA

Course Name: Animal Physiology, Cellular Metabolism and Embryology.

By the completion of the course the graduate should able to:	
CO 1	Understand the functions of important animal physiological system including digestion Cardio- Respiratory and Renal system.
CO 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.
CO 3	Describe the structure, classification and chemistry of biomolecules and enzymes responsible for sustenance of life in living organisms.
CO 4	Develop broad understanding the basic metabolic activities pertaining to the catabolism and anabolism of various biomolecules.

Semester: IV

Course Code: ZOO4SKB

Course Name: Immunology and Animal Bio-Technology.

By the completion of the course the graduate should able to:	
CO 1	To get knowledge of the organs of immune system, type of immunity, cells and organs of immunity.
CO 2	To describe immunological response as to how it is triggered (Antigens) and regulated (Antibodies)
CO 3	Understand the applications of biotechnology in the fields of industry and agriculture including animal cell/tissue culture, stem cell technology and genetic engineering
CO4	Get familiar with the tools and techniques of animal biotechnology.

Semester: V

Course Code: ZOO5SA

Course Name: Biotechnology.

By the completion of the course the graduate should able to:	
CO 1	Imparts the knowledge to culture animal cells in artificial media.
CO 2	Knowledge of animal cell in culture growth of cell lines.
CO3	Use in recombinant DNA technology, genetic manipulations and in a variety of Industrial process.

COURSE OUTCOMES (Cos)

Semester V
Course Code: ZOO 6A
Course Name: 6 A Sustainable Aquaculture Management

	By the completion of course the graduate should able to
CO1	Evaluate the present status of aquaculture at the Global level and national level
CO2	Classify different types of ponds used in aquaculture
CO3	Demonstrate induced breeding of crops
CO4	Acquire critical knowledge on commercial importance of shrimps

Semester V
Course Code: ZOO 7A
Course Name: 7 A Post harvest technology of fish and fisheries

	By the completion of course the graduate should able to
CO1	Identify the types of preservation methods employed in aquaculture
CO2	Choose the suitable processing methods in aquaculture
CO3	Maintain the standard quality control protocols laid down in aqua industry
CO4	Identify the best sea food quality assurance system

Thank you