

DEPT. OF ZOOLOGY

PROGRAMME OUTCOME

- PO-1. Application of the knowledge of various branches of Zoology for higher studies and employment.
- PO-2. Acquire basic skills for observation, study of nature, biological techniques and scientific investigation.
- PO-3. Development of positive attitude towards sustainable development.
- PO-4. Development of love and empathy towards animals.
- PO-5. Understanding of the importance and conservation of organisms for balance of nature.

PROGRAMME SPECIFIC OUTCOME

- PSO-1. Learning the diversity of animal world, their habit, habitat, life history and evolution.
- PSO-2. Learn to study morphology, anatomy, physiology, reproduction and development of organisms.
- PSO-3. Learning about heredity by study of cytology and genetics.
- PSO-4. Learn about predators, parasites and pathogens, and diseases affecting animal world and find solutions for prevention.
- PSO-5. Ecological knowledge with help to know the reasons of environmental degradation and help them to formulate ways for its upkeeping.
- PSO-6. Fundamental mathematical tools like statistics, models are used to analyse complex biological situations.
- PSO-7. Theoretical knowledge associated with practical skills, seminar presentations, undertaking project works will help them to acquire in depth knowledge in the field of zoology.
- PSO-8. Knowledge on beneficial and harmful organisms, transmission and their impact on human.
- PSO-9. Protection of endangered species.
- PSO-10. Animals and their relationship with environment for maintenance of a healthy ecosystem.
- PSO-11. Importance of biodiversity, conservation of nature.
- PSO-12. Interrelationships of animals and their evolutionary relationship.

❖ **PROGRAMME (U.G) COURSE OUTCOME**(with in 500 words):

C1-Non chordates1-studyof non chordates from protista to pseudocoelomates

C2-Principles of ecology-Study of Population,community and biometry.

C-3-Non chordates2-Study of coelomates

C-4-Cell biology-study of Plasma membrane,cytoskeleton,endomembrane systems,mitochondria and peroxisomes,nucleus,cell divis and cell signalling.

C-5-Chordates Protochordates,agnatha,piesces,amphibia, reptiles,aves,mammalsandzoogeography.

C-6-Physiology-Tissue system,muscle and nervous system, reproductive system, endocrine system.

C-7-Biochemistry-Carbohydrates,lipids,protein, enzymes and microbiology.

C-8-Comparative anatomy ofvertebrates-Integument,skeletal system,digestive,respiratory system,circulatory,urinogenital sustem,nervous system and sense organs.

C-9-Physiology-Digestion,respiration,excretion,heart and circulation.

C-10-Biochemistry-Overview of metabolism,carbohydrate metabolism,lipid and protein metabolism,oxidative phosphorylation.

C-11-Molecular biology-Nuclic acid,DNA repair and replication,transcription,translation,post transcriptional modification,processing of eukaryoticRNA, gene regu and regulatory RNAs.

C-12-Genetics-Mendelism,linkage,crossing ovet,chromosomal mapping,mutation,sex determination,extra chromosomal inheritance,recombination in bacteria,viruses and transposable genetic elemements.

C-13-Developmental biology-Gametogenesis,fertilization,early embryonic development,late embryonic development,post embryonic development,IVF,ESC,amniocentesis.

C-14-Evolutionary biology-Theory and evidences of evolution,extinction,population genetics,species concept andspeciation,origin and evolution of man.

DSE-1-Endocrinology-Epiphyseal, hypothalamo-hypophyseal axis, peripheral endocrine glands, regulation of hormone action.

DSE-2-Reproductive biology-Reproductive system and endocrinology, functional anatomy of male reproduction, functional anatomy of female reproduction, reproductive health.

DSE-3-Fish and fisheries-Sytematics, morphology and physiology, fisheries, aquaculture, fish pathology and transgenesis.

GE-1-Animal diversity-Protista to chordates.

GE-2-Human physiology-Digestion, respiration, nerve impulse conduction, muscle contraction, excretion, circulation, endocrine and reproductive physiology.

AECC-1-Environmental studies and Disaster management-Environment, pollution, disaster management, public health management.