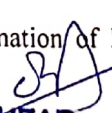


Course Out Come & Program Specific Out Come (PO & PSO)

1. **Biosystematics and Taxonomy:** Students will have learning about the basic taxonomy and systematics trends in biosystematics, taxonomic characters and different keys of taxonomy, Procedure keys in Taxonomy and Dimensions of Speciation & Taxonomic character.
2. **Structure and Function Of Invertebrates:** Students will have learning about the basic classification of Protozoa, Porifera to Echinodermata groups. They also will acquire knowledge about the coelom, nutrition, digestion, excretion, nervous system, larval forms and minor phyla as well as about some acoelomate plus pseudocoelomate parasites for their life cycles, epidemiology.
3. **Comparative Anatomy Of Vertebrates:** Students will have understood the structures of different systems such as, integumentary, skeletal, digestive, respiratory, circulatory, urinogenital, nervous and sensory organs in comparative way among the vertebrate groups.
4. **Tools and Technique in Biology:** Students will understand the basic and fundamentals of instrumentation, different types of tools which are used in zoology. Students find practical information of different types of laboratory equipments and how they use different equipments like pH meter, centrifuge colorimeter, chromatography, electrophoresis, centrifugation, spectrophotometry etc will also be learnt.
5. **Molecular Cell Biology & Genetics:** Students will acquire knowledge about replication, transcription, translation, post transcriptional and post translational modifications, gene regulation, DNA repair mechanisms and various molecular tools and techniques like PCR, southern, northern and western blotting, recombinant DNA technology etc. They will also know the various tools and techniques related to bacterial microbiology. Some aspects of applied microbiology and diseases related to microbiology will also be learnt by the students. and some fundamental genetics like Mendelian and Non Mendelian inheritances, linkages, mutations, sex determination of various animals, extrachromosomal inheritances, transposable genetic elements etc.
6. **General and Comparative Endocrinology:** Students will acquire information about the study of endocrinology, hormones relation between hormones and animal behaviour. Students find basic information of different types of endocrine glands and how hormones controlled animal behaviour They will learn details of endocrinology with classification of hormones, their biosynthesis, receptors, and mode of molecular actions, physiological function, feedback controls and related disorders.
7. **Environmental Physiology and Ecology:** Students will acquire information about ecological adaptation and physiological adaptation and stress physiology. Students acquire basic information of which type of changes creates during the stress and also how yoga useful for the body fitness.
8. **Population Ecology & Quantitative Biology:** Students will acquire information about demography of population, population regulation, biostatistics and ecological modelling. Students acquire basic information of demography & biostatistics. They will also understand the various aspects of biostatistics such as central tendency, t-test, chi-square, ANOVA, correlations and regression.
9. **Population Genetics And Evolution:** Students will have acquire information about concept of evolution, genetics of speciation and molecular evolution. Students finds basic information how molecular evolution affected by genetic variation.
10. **Animal Behaviour:** Students will acquire information about Ethology, communication, orientation and hormonal effect on behaviour. Students gain basic information of role of hormones in animal behaviour.
11. **Gamete and Developmental Biology:** Students will learn the different aspects of early, late and post embryonic developments and gamete biology. They will have the knowledge about implications of developmental biology in various fields, such as in teratogenesis, stem cell biology.
12. **Comparative Physiology of Vertebrates** Students will learn about the fundamental knowledge of comparative physiology of various systems of vertebrates. They will also understand the physiology of muscles, nerves, reproductive systems, sense organs and bone etc.
13. **Biochemistry:** Students will understand the basic and fundamental biochemistry of carbohydrates, proteins, lipids and nucleic acids. They will also understand the nature, mechanism, and kinetics of enzyme action.
14. **Limnology:** Students will understand the basic and fundamental of limnological study of fresh water. Students find detail information of water quality management detailed study of plankton. How water quality affected by sewage water study of different physic-chemical parameters.
15. **Ichthyology:** Students will acquire information of general characters, classification, anatomy and phylogeny of fishes and fish physiology.
16. **Pisiculture And Economic Importance Of Fishes:** Students will acquire information of Pisiculture, World fisheries ,Cultivable fisheries and Economic importance of fishes.


 H.O. HEAD
 DEPT. OF ZOOLOGY