

Course Outcomes

Class: F. Y. B.Sc. Zoology (Theory)

Semester I

Course (Paper) Name and No.: Kingdom Animalia, Wonders of Animal World, Biodiversity and its Conservation

CO1	Curiosity will begin it in the mind of learners, to know more about the fascinating world of animals which would enhance the interest and love for the Subject of Zoology.
CO2	Learner would come to know about basic of systematic and the hierarchy in invertebrates. Learner would have knowledge about different phyla with their respective examples.
CO3	Learners would appreciate treasure of Biodiversity, its importance and hence Would contribute their best for its conservation

Course (Paper) Name and No.: Laboratory safety units and measurement, Instrumentation and Animal biotechnology

CO1	Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and understanding of economy in use of materials/chemicals during practical sessions.
CO2	Learner would be able to select and operate suitable instruments for the studies of different components of Zoology. Further learner would be skilled in the area of research.
CO3	Learner would understand there cent advances in the subject, its applications for the betterment of mankind; and that the young minds would be tuned to think out of the box

Semester II

Course (Paper) Name and No.: Laboratory safety units and measurement,
Instrumentation and Animal biotechnology

CO1	This lesson explores the classification system used to identify animals. This unit is specifically designed to move quickly beyond the knowledge level to high-level thinking.
CO2	Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being.
CO3	Learners would be inspired to choose career options in the field of wildlife Conservation, research, photography and ecotourism.

Course (Paper) Name and No.: Laboratory safety units and measurement,
Instrumentation and Animal biotechnology

CO1	Healthy dietary habits would be inculcated in the lifestyle of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits.
CO2	Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases.

Class: S.Y.B. Sc. Zoology Semester III

Course (Paper) Name and No.: Fundamentals of Genetics, Chromosomes and Heredity, Nucleic acids

CO1	Learner shall comprehend and apply the principles of inheritance to study heredity. Learner will understand the concept of multiple alleles, linkage and crossing over
CO2	Learner will comprehend the structure of chromosomes and its types. Learner shall understand the mechanisms of sex determination. Learner would be able to correlate the disorders linked to a particular sex chromosome.
CO3	Learner will understand the importance of nucleic acids as genetic material. The learner shall comprehend and appreciate the regulation of gene expressions.

Course (Paper) Name and No.: Study of Nutrition and Excretion, Respiration and circulation, Control and coordination, Locomotion and Reproduction

CO1	Learner would understand the increasing complexity of nutritional, excretory and osmoregulatory physiology in evolutionary hierarchy.
CO2	Learner would be able to understand.
CO3	Learner would understand the increasing complexity of respiratory and
CO4	Learner would be able to correlate the habit.
CO5	Learner would understand the process of control and coordination by nervous and endocrine regulation.
CO6	Learner would be fascinated by various locomotory structures found in the animal kingdom.
CO7	Learner would be acquainted with various reproductive strategies present in animals.

Course (Paper) Name and No.: Ethology, Parasitology, Economic Zoology

CO1	Learners would gain an insight into different types of animal behavior and their role in biological adaptations. Learners would be sensitized to the feelings instrumental in social behavior.
CO2	Learners would understand the general epidemiological aspects of parasites that affect humans and apply simple preventive measures for the same. Learners would comprehend the lifecycle of specific parasites, the symptoms of the disease and its treatment
CO3	Learners would gain knowledge on animals useful to mankind and theme and to make the most of it. Learners would learn the modern techniques in animal husbandry. Learners would be pursuing entrepreneurship as careers

Semester IV

Course (Paper) Name and No: Origin and Evolution of Life, Population and Evolutionary Genetics, Scientific Attitude, Methodology, Scientific Writing and Ethics in Scientific Research

CO1	Learner will gain insight about origin of life. Learner will ponder and critically view the different theories of evolution.
CO2	Learner would understand the forces that cause evolutionary changes in natural populations. Learner would comprehend the mechanisms of speciation. Learner will be able to distinguish between microevolution, macroevolution and mega evolution.
CO3	The learner shall develop qualities such as critical thinking and analysis.
CO4	The learner will imbibe the skills of scientific communication and he/she will understand the ethical aspects of research.

Course (Paper) Name and No.: Cell biology, endomembrane system and biomolecule

CO1	Learner would acquire insight of transport mechanisms for the maintenance and composition of cell.
CO2	Learner would appreciate the intricacy of endomembrane system. Learner would understand the inter linking of endomembrane system for functioning of cell
CO3	The learner will realize the importance of biomolecules and their clinical significance

Course (Paper) Name and No.: Comparative Embryology, Aspects of Human Reproduction, Pollution and its effect on organisms

CO1	Learner will be able to understand and compare the different pre-embryonic stages
CO2	Learner will be able to appreciate the functional aspects of extra embryonic Membranes and classify the different types of placentae.
CO3	Learners will able to understand human reproductive physiology.
CO4	Learners will become familiar with advances in ART and related ethical issues
CO5	The learners will be sensitized about the adverse effects of pollution and measures to control it