

Dept of Zoology

Course outcome

B.Sc. (Hons.) 3 Year (six semester) Course

Students will acquire the following knowledge

Semester I

Systematic & Animal Diversity: Non- Chordate - Protista to Pseudocoelomates, Coelenterata, Ctenophora, Aschelminthes, Annelida, Arthropoda, Mollusca, Echinodermata, Abiotic Environmental Factors, Concept of Ecosystem, Bio-geochemical Cycle, Population & Communities, Pollution

Semester II

CELL BIOLOGY - The Cell and its Organization, Nucleus, Cell Division, Elementary idea of Apoptosis & Necrosis, Diversity of Chordates, Hemichordates & Protochordate, Chordates, Proto-chordates, Cyclostome, Fish & Amphibians, Reptiles, Birds & Mammals,

Semester III

Biomolecules - Amino Acids, Protein , Carbohydrates, Lipids, Vitamins, Enzymes, Nucleic Acids, Metabolic Pathways, Mammalian Physiology, Nutrition and Digestion, Respiration and Circulation, Renal & Reproductive Physiology, Nerve Physiology, Endocrinology – Hormones, Endocrine Glands, Disease Related With Hormonal Abnormality, Gastro-Intestinal Hormones

Semester IV

Genetics - Basics of Mendel's experiments, Extension of Mendelism, Sex Determination, Mutation, Geological History And Evidences Of Evolution, Theory & Sources of Evolution, Population Genetics, Levels & Pattern Of Evolution, Animal Behaviour - Concept & Patterns of Behaviour , Social Organization & Communication, Migration, Parental Care , Biological Rhythm

Semester V

Immunology - Human Immune System and Immunity, Cells and Organs of Immune System , Humoral Immune Response, Cell mediated Immunity, Embryonic Development, Reproductive Technology, DSE1 - Economic Zoology OR Solid Waste Management OR Microbiology DSE2 - Biostatistics OR Animal Behaviour And Chronobiology OR Parasitology

Semester VI

Molecular Biology and Biotechnology - DNA Replication and Gene Expression , DNA Damage and Repair, Biotechnology; Medical Zoology - Protozoan parasite, Helminthes Parasites, Arthropods as Vector of Human Disease, Human disease caused by viruses & bacteria; DSE1 - Wildlife Conservation and Management OR Biology Of Insects OR Reproductive Biology, DSE2 - Agro Chemical And Pest Management OR Animal Cell Biotechnology OR Fisheries and Aquaculture,