

K. T. S. P. MANDAL'S

Hutatma Rajguru Mahavidyalaya

Rajgurunagar, Pune.

Department of Zoology

(Course Offered B. Sc. I)

B.Sc. ZOOLOGY PROGRAM OUTCOMES

PSO 1: After completion of this course students will be able to contribute as policy makers in biodiversity conservation, animal preservation and environment protection.

PSO 2: Equip with the knowledge of animal classification and diversity, ecology and economic importance of animals.

PSO 3: Acquire the advanced concepts in insect rearing and various animal breeding for the food security of human beings.

PSO 4: Inculcate the traditional knowledge of using various animal based products in human healthcare system.

PSO 5: Adapt scientific research techniques in various applied branches of Zoology for sustainable development.

PSO 6: Perform procedures as per laboratory standards in the areas of Taxonomy Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Toxicology, Entomology, Sericulture, Biochemistry, Fish biology, Animal breeding and Clinical Pathology.

PSO 7: Zoology course also provide knowledge of applied subjects to develop various skills to make a career and become an entrepreneur in the field of aquatic biology, sericulture, apiculture, vermiculture, prawn culture, dairy management, animal breeding and management, wildlife conservation and management, wildlife photography etc.

PSO 8: Analyze the relationships among animals, plants, and microbes.

PSO 9: Understand and analyze the ecological and evolutionary significance of different taxa of animals.

PSO 10: Analyze the mechanisms involved in life processes up to the molecular level.

PSO 11: Gains knowledge about research methodologies, effective communication and skills of problem solving methods.

PSO 12: Contributes the knowledge for Nation building.

Course Outcomes:

After the completion of the course, students should be able to:

CO1: Apply Mendelian genetic principles to predict outcomes of genetic crosses, interpret pedigrees and understand the basics of genetic inheritance.

CO2: Recognize and explain the inheritance patterns and molecular basis of common genetic disorders, including both Mendelian and complex traits.

CO3: Understand the concept of non - Mendelian genetics.

CO4: Concept and characteristics of multiple alleles, ABO blood group system, Inheritance of Rh antigen, Erythroblastosis foetalis and their medicolegal importance.

CO5: Understand the structure of chromosomes, chromatin and its types, giant chromosomes and chromosomal aberrations.

CO6: Successfully solve genetic problems using Punnett squares, probability calculations and pedigree analysis.

CO7: Understand basic concepts of medical zoology.

CO8: Understand different epidemic, vector borne and microbial diseases in humans.

CO9: Understand about investigations and treatments of human physiological disorders.

