RAYAT SHIKSHAN SANSTHA'S

SHREE SADGURU GANGAGEER MAHARAJ SCINCE, GAUTAM ARTS & SANJIVANI COMMERCE COLLEGE, KOPARGAON DIST AHMEDNAGAR

Program Outcomes, Program Specific Outcomes and Course Outcome

Department of Zoology

Program outcome : B.Sc. (Zoology)	
PO1	• Demonstrate, solve and an understanding of major concepts in all disciplines of Zoology.
PO2	• Solve the problem and also think methodically, independently and draw a logical conclusion.
PO3	• Understand the evolution, history of phylum.
PO4	• Create an awareness of the impact of Zoology on the environment, society, and development outside the scientific community
PO5	• To study and understand the classification of whole phyla includes in Non chordates with the help of charts/models/pictures.
PO6	• To inculcate the scientific temperament in the students and outside the scientific community.
PO7	• Use modern techniques, decent equipment's

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Program Outcomes, Program Specific Outcomes and Course Outcome

Department of Zoology

Program Specific Outcome : B.Sc./ (Zoology)	
PSO1	• Gain the knowledge of Zoology through theory and practical's.
PSO2	• Study and understand the DNA Recombinant technology.
PSO3	• Understand the testing of hypothesis.
PSO4	• Use modern Zoological tools, Models, Charts and Equipment's.
PSO5	• Know structure-activity relationship.
PSO6	• Understand good laboratory practices and safety.
PSO7	• Make aware and handle the sophisticated instruments/equipment.
PSO8	• Gain the knowledge of Zoology through theory and practical's.
PSO9	• Study and understand the DNA Recombinant technology.

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Program Outcomes, Program Specific Outcomes and Course Outcome
Department of Zoology

Course Outcomes of B.Sc. (Zoology)

Class	Course title	Outcome
F.Y.B.Sc. (Paper-I)	Animal systematics and Diversity I and II	• Understanding of basics of Animal Classification. • Understanding of parasitology • Understanding of host and parasite relationship
F.Y.B.Sc. (Paper-II)	Fundamental of Cell Biology and Genetics	• Understanding of fundamentals of cell biology • Understanding of types of cells • Understanding of cell organelles • Understanding of techniques used in cell biology study • Understanding of Mendellian genetics. • Understanding of fundamentals of genetics
S.Y.B.Sc. (Paper-I)	Animal systematics and Diversity III	• Understanding of phylum Arthropoda, Mollusca and Echinodermata with respect to habits and habitats • Understanding of morphology and anatomy of starfish • Understanding of larval forms of above mentioned phyla • Economic importance of Arthropods and molluscs
S.Y.B.Sc. (Paper-II)	Applied zoology I	• Understanding of application of fishery science • Understanding of science of pest control • Understanding of different pests and their infestation
S.Y.B.Sc. (Paper-I)	Animal systematics and Diversity IV	• Understanding of Phylum Chordata and its classes • Understanding of general characteristics of reptiles aves and mammals. • Understanding of Scoliodon systems • Understanding of adaptations according to their habitat
S.Y.B.Sc. (Paper-II)	Applied zoology II	• Understanding of apiculture and sericulture • Understanding of tools and techniques used in apiculture and sericulture • Understanding of enemies of honey bees and silk moths

T.Y.B.Sc. (Paper-I)	Animal Systematic and Diversity- V	• Understand the evolution, history of phylum. • Understand about the Non Chordate animals. • To study the external as well as internal characters of non chordates. • To study the distinguishing characters of non chordates. • Understand the economical importance of Molluscs • Understand the various internal systems like Digestive system,nervous system with the help of charts. • Understand the functions of Gemmules and spicules. • Understand the economical importance of Molluscan shells.
T.Y.B.Sc. (Paper-II)	Mammalian Histology	• Understand the terms Histology and Physiology • Understand the cell, tissue, organ, system and organisms. • Study the derivatives of skin- horns, nails, hairs. • Study and understand the terms- acidosis, alkalosis, asphexia, hypoxia, anoxia and cyanosis
T.Y.B.Sc. (Paper-III)	Biological Chemistry	• Understand about the agencies responsible for Production of various products using biochemistry. • Understand the term pH, Buffer. • Understand the structure and function of carbohydrate, amino acids, proteins, and lipids. • Understand the concept Enzymes and also Vitamins and minerals. • Understand the Principle role of Vitamins in metabolism and the deficiency diseases.
T.Y.B.Sc. (Paper-IV)	Enviromental Biology & Toxicology	• Know the biotic and abiotic components of ecosystem. • Food chain & food web in ecosystem. • Understand diversity among various groups of animal kingdom. • Understand Animal community & ecological adaptationin animals. • Scope , importance and management of biodiversity

T.Y.B.Sc. (Paper-V)	Parasitology	• To study and understand the scope and branches of Medical Zoology. • To aware the students for various parasites and diseaseswhich spreads in human with the help of study of host-parasite relationship. • To increase awareness for the health in students. • Understand the various disease causing vectors like Mosquitoes. • To aware about the typhoid, cholera likes disease.
T.Y.B.Sc. (Paper-VI)	Cell Biology	• Understand the Scope of cell biology, because cell is thebasic unit of life. • Understand the Main distinguishing characters betweenplant cell and animal cell. • To study and understand the whole cell organelles withtheir structure and function. • Understand the cell cycle and know the importance of various cells in body of organisms. • Understand the various applications of cells by usingcell biology like study of various types of tumor. • Understand the Animal cells and various cell organellesby using microphotographs. • Course
T.Y.B.Sc. (Paper-I)	Biological Techniques	• Understand the various Applications of Biotechnology. • Study and Understand the Hybridoma technology as well as Enzyme biotechnology. • Study and understand the DNA Recombinant technology. • Understand the industrial and environmental biotechnology. • Study and understand the Stem cell biotechnology. • Understand the Scope and Significance of Biotechnology.

T.Y.B.Sc. (Paper-II)	Mammalian Physiology and Endocrinology	• Understand the Importance of physiology and branches of it. • Understand the terms-Osmosis, diffusion, pH and Buffer. • Understand the Digestion and Excretion process, by studying the organs of it • Understand the process of Metabolism. • Understand the term Detoxification. • Understand the Circulatory system and Lymphatic system. • Study the nervous system.
T.Y.B.Sc. (Paper-III)	Genetics and Molecular Biology	• Understand the Molecular biology and molecular biology. • Understand the cell divisions and types of mutation. • Understand the structure and function of the cells.
		• Understand the term cell signaling. • Aware the students for Cancer. • Understand the Tools and Techniques in Molecular Biology. • Understand the term ELISA technique and DNA finger printing.
T.Y.B.Sc. (Paper-IV)	Organic Evolution	• To understand Origin of life with respect to prokyariotic and eukaryotic cells. • Understand the evidences of organic evolution by anatomical embryological list, paleontological, physiological, genetics and molecular biology evidences. • Understand theories of organic evolution, isolation, speciation. • Understand geological time scale, methods and classification of animal distribution and factors affecting animal distribution.
T.Y.B.Sc. (Paper-V)	General Embryology	• Understand the terms: Gametogenesis, Fertilization and early development. • Understand the Morphogenesis and Organogenesis in animals. • Understand the Aging, Apoptosis and Senescence.

T.Y.B.Sc. (Paper-VI)	Medical Entomology	• Understand the fundamentals of agricultural, forest, medical and veterinary entomology. • Understand Morphology and Anatomy of Insects. • Understand intra specific and inter specific relationships among insects. • To understand significance of beneficial and harmful insects with reference to their habit and habitat, life cycle, diseases caused by them and their control measures.