



Sanjivani Rural Education Society's
SANJIVANI ARTS, COMMERCE AND SCIENCE COLLEGE
At: Sahajanandnagar, Post: Shingnapur, Tal: Kopargaon,
Dist: Ahmednagar (M.S.) Pin:423603
Recognized by Govt. of Maharashtra, Affiliated to University of Pune, ID.No.PU/AN/ACS/130/2012



Department of Zoology

Program Outcomes, Program Specific Outcomes and Course Outcome

Program outcome B.Sc. (Zoology)	
PO1	<ul style="list-style-type: none">Demonstrate, solve and an understanding of major concepts in all disciplines of Zoology.
PO2	<ul style="list-style-type: none">Solve the problem and also think methodically, independently and draw a logical conclusion.
PO3	<ul style="list-style-type: none">Understand the evolution, history of phylum.
PO4	<ul style="list-style-type: none">Create an awareness of the impact of Zoology on the environment, society, and development outside the scientific community
PO5	<ul style="list-style-type: none">To study and understand the classification of whole phyla includes in Non chordates with the help of charts/models/pictures.
PO6	<ul style="list-style-type: none">To inculcate the scientific temperament in the students and outside the scientific community.
PO7	<ul style="list-style-type: none">Use modern techniques, decent equipment's


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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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Course Outcomes of B.Sc. (Zoology)

Class	Course title	Outcome
F.Y.B.Sc. (Paper-I)	Animal systematics and Diversity I and II	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Understanding of apiculture and sericulture• Understanding of tools and techniques used in apiculture and sericulture• Understanding of enemies of honey bees and silk moths


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T.Y.B.Sc. (Paper-I)	Animal Systematic and Diversity- V	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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


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T. Y. B. Sc. (Paper-V)	Parasitology	<ul style="list-style-type: none"> • To study and understand the scope and branches of Medical Zoology. • To aware the students for various parasites and diseases which 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 like disease.
T. Y. B. Sc. (Paper-VI)	Cell Biology	<ul style="list-style-type: none"> • Understand the Scope of cell biology, because cell is the basic unit of life. • Understand the Main distinguishing characters between plant cell and animal cell. • To study and understand the whole cell organelles with their 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 using cell biology like study of various types of tumor. • Understand the Animal cells and various cell organelles by using microphotographs. • Course
T. Y. B. Sc. (Paper-I)	Biological Techniques	<ul style="list-style-type: none"> • 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.


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T.Y.B.Sc. (Paper-II)	Mammalian Physiology and Endocrinology	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Understand the Molecular biology and molecular biology.• Understand the cell divisions and types of mutation.• Understand the structure and function of the cells.
		<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• To understand Origin of life with respect to prokaryotic 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	<ul style="list-style-type: none">• Understand the terms: Gametogenesis, Fertilization and early development.• Understand the Morphogenesis and Organogenesis in animals.• Understand the Aging, Apoptosis and Senescence.


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T.Y.B.Sc. (Paper- VI)	Medical Entomology	<ul style="list-style-type: none">• 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.
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