

Vimukta Jati Seva Samitee's
Gramin (ACS) Mahavidyalaya VasantNagar Kotgyal
Tq.Mukhed Dist.Nanded

Department of Zoology

Outcomes

Biodiversity of Invertebrates

1. The students will be able to identify a given invertebrate up to class level.
2. Ability to understand the contribution of invertebrates in the biodiversity index of any given habitat.
3. Ability to understand appreciate the ecological and economic importance of invertebrate and vertebrates.
4. Ability to identify and describe external morphology and internal anatomical features of representative invertebrate species.

Biodiversity of Chordates

1. The student will be able to identify and understand the Biodiversity of chordates.
2. Ability to understand anatomical relation between different vertebrate classes.
3. The learner will be able to understand the economic importance of chordates.

Comparative Anatomy of Vertebrates

1. The students will be able to identify and understand comparative anatomical structure of vertebrate organ systems.
2. Understand the plasticity of organ system to adapt to the environment and acquire different novel forms.

Developmental Biology of Vertebrates

1. The student will be able to explain the basics process of vertebrate embryonic development.
2. Ability to describe the various steps in vertebrate development.
3. Identify and explain about the different embryonic structures.
4. Describe the functions of different extra embryonic structures.
5. Understanding of the Assisted Reproductive Technologies.

Based on Paper No. I, II, III, and IV

1. Ability to understand the anatomical organization of organs and systems in representative species.
2. Ability to identify and describe structure and functions of different body parts of invertebrate and vertebrates.
3. Students would be able to prepare temporary and permanent man tings of biological material.
4. Students would be able to relate different bones and be able to articulate them to from an skeleton.
5. Students would make observation of organisms in their natural environment and document them.

Physiology

1. Monitor their blood pressure and identify blood groups.
2. Understand function and types of heart and circulatory system.
3. Appreciate the basic function of kidney, main function of nerves.
4. Acquire knowledge on the nature and function of hormones and learn the mechanism of hormone action.

5. Learn the structure and functions of Endocrine glands.
6. Understand the structure, development and function of reproductive organs in human.

Biochemistry

1. Understand the chemical structure and function of various biomolecules.
2. Learn the Signaling of bio molecules in cell membrane.
3. Understand the correlation between metabolism of different types of bio molecules.

Cell Biology and Genetics

1. Understand the structure and function of the cell as the fundamentals for understanding the functioning of all living organism.
2. Understand structures and various cellular functions associated with the macro molecules found in cells.
3. Acquire knowledge of Mendelian Genetics and its Extension.
4. Graduates will be able to explain and interpret various processes, phenomena, states and evolutionary tendencies at a biological system level.

Evolutionary Biology and Genetic Engineering

1. Understand the theories and concepts of evolution.
2. Learn the process of evolution in animals.
3. Understand the patterns of evolutionary changes in animals.
4. Understand the organization and functions of genetic material in the living world.
5. Understand the Recombinant DNA Technology.

Hematology

1. Ability to explain composition and function of blood.
2. Knowledge about compounds used in processing and storage of blood.
3. Skill to be able to use different techniques used in study of blood cells.
4. Ability to be able to use different techniques used in study of blood cells.
5. Ability to be collect, preserve and analyze blood samples.
6. Knowledge of changes in blood composition in disease.

Apiculture

1. Ability to understand describes the life stages and social organization of honey bee species.
2. Ability to correctly explain and perform bee rearing farming and harvesting practices.
3. Appreciate the economic importance of derivative benefits and by products of apiculture.
4. To identify and take remedial measures against the different bee diseases and predators.

Ecology and Zoogeography

1. Basic knowledge of feeding strategy of animal plants.
2. knowledge of interdependence of plants and animal.
3. Awareness about various climatic zones of earth.
4. Understanding of climatic and weather phenomena.

Ethnology, Biometry and Bioinformatics

1. Knowledge of sensory system in animals.
2. Awareness about nervous systems in animals and their intelligence.
3. A basic sense of behavior and different behaviors.
4. Knowledge of different types of operating system, general application software.
5. Ability to use internet for searching general information and use of web browser.

Applied Parasitology

1. Awareness about morphology and taxonomy of helminthes and arthropods.
2. Awareness of human parasitic diseases.