Maji Aamdar Shri Babasaheb Patil Sarudkar Shikshan Sansthas's

SHRI SHIV-SHAHU MAHAVIDYALAYA, SARUD

Tal. Shahuwadi , Dist. Kolhapur

Programme Specific Outcomes ,Course Outcomes and Programme Outcomes

PROGRAMMESPECIFICOUTCOME

B.SC.ZOOLOGY

- Demonstrate broad understanding of animal diversity including knowledge of taxonomic classification and Evolutionary relationship of major groups of animals.
- Categories the biological, chemical, and physical features of environments (e.g.terrestrial, fresh water,marine,parasitic)with reference to animals inhabit.
- Students can explain how animals adopt with respect to biological, chemical and physical processes in natural and impacted environment.
- Students can able to understand applied aspects of Zoology such as Poultry farming, and health related disorders.
- Student can able to develop skill through Experiments, Demonstration with the help of laboratory materials and instruments.

COURSE OUTCOMES

B.SC.I (ZOOLOGY) SEMESTER I

ANIMAL DIVERSITY (Paper – I)

- Students can recognize the diversity from protozoa to echinodermata.
- Students can understand body organization, systematic position, habit and habitat ,physiology of various phylum.
- Students can understand the diversity and functional aspects and economic importance systems kingdom protista to phylum echinodermata.

Animal Physiology DSC 16A (Paper II)

To understood about mechanism of digestion absorption and assimilation.

To get Knowledge of respiration and excretion, circulation and composition of blood .

To understand neuromuscular coordination and the mechanism of osmoregulation in animals and endocrine system.

B.SC.I SEMESTER II

DSC - 15B CELL BIOLOGY & EVOLUTIONARY BIOLOGY(Paper – III)

To understand the importance of cell as a structural and functional unit of life.

To understand and compares between the prokaryotic and eukaryotic cells.

- Students can understand cell organelles with reference to structure and function, its structure know with which other organelles they are associated.
- Students can understand Origin and evolution of life.
- Student can understand causes of evolution by different theories.

DSC 16B GENETICS (Paper – IV)

- Students can understand Genetics in correlation with Evolution.
- Student can understand the theories of classical genetics and blood group inheritance in man.
- Student can able to describe the genetic variation through linkage and crossing over, mutation and sex determination.
- Student can recognize Mendel's laws of inheritance and solve problems based on genetics.

B.SC.II (ZOOLOGY) SEMESTER III

ANIMAL DIVERSITY II (Paper – V)

- Studentcan able to recognize the diversity from protochordates to Mammals.
- They can gain knowledge on the observation of specimens and models.
- Students can able to learn about different aspects of various groups of Chordates, the iridentification and classification up to order, general and salient features, habit and habitat,geographical distribution and economic importance.

BIOCHEMISTRY (Paper – VI)

- Students can understand the basic metabolism of carbohydrates, proteins,lipids in the diet.
- Students can understand about nucleic acid types and the irimportance.
- They can understand the role of enzymes, enzymes action and influence of temperature, pH on enzyme action.

B.SC.II SEMESTER IV

REPRODUCTIVE BIOLOGY (Paper – VII)

- Studentscanlearnthebiologicalprocessesofreproduction.
- Theycanexplore how reproductive biology impactsotheraspectsofhealth.
- Studentscanrecognizemodernreproductivetechnology.

APPLIEDZOOLOGY I (Paper – VIII)

- Studentscanlearn basicconcepts regardinghostandparasites.
- They can acquaint the knowledge about various diseases caused by insect pests and theircontrolmeasures.
- Theycanearnfrom entrepreneurship opportunities.

PROGRAMME OUTCOMES

- On successful completion of the programme, the students are entrained with the concepts of classical Zoology, including the diversity of life forms, the origin of life and the different ecological concepts.
- Apart from developing an appreciation on animals and their behaviour the students become abreast with the latest concepts of cell biology, genetics, biochemistry,Applied Zoology,Reproductive biology.
- The students also acquire skills in both the theoretical and practical aspects.
- Field studies and excursion imprint concepts of teamwork as well as life on the outdoors.