



Telangana Social Welfare Residential Degree College for Women, Nirmal, Dist.: Nirmal – 504106.



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DEPARTMENT OF ZOOLOGY
PROGRAMME AND COURSE OUTCOMES OF
B.SC ZOOLOGY UNDER CBSC

PROGRAMME OUTCOMES:

After successfully completing B. Sc. (Zoology) Programme students will be able to:

PO1. Communicate scientific information through effective formal and informal methods generally used in sciences.

PO2. Conduct basic scientific research and provide inputs for societal benefits.

PO3. Develop competence in basic sciences and in the content of the specific courses that constitute the principal knowledge of their degree.

PO4. Compare and contrast the characteristics of animals that differentiate them from other forms of life.

PO5. Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.

PO6. Understand and be aware of relevant theories, paradigms, concepts and principles of zoology.

PO7: Understand the structure and functions of cell types

PO8: Acquire time management and self-management skills.

PO9: Relate the various abiotic factors with health of living forms and ecosystems.

PO10: Explain the role of various biomolecules in living systems

PO11: Apply the knowledge of Zoology to understand the complex life life Processes and phenomena.

PO12: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning.

COURSE OUTCOMES FOR ZOOLOGY

B.SC I Year

SEMESTER- I

ANIMAL DIVERSITY AND INVERTEBRATES

After successfully completing this course, students will be able to:

CO1: Demonstrate anatomical and physiological attributes of each animal group and why these have led to their success.

CO2: Identify a range of invertebrate and vertebrate animals

CO3: Describe the morphology, habit and habitat. Systematic position and various systems in Elphidium, Sycon, Obelia, Schistosoma, Dracanculus, Hirudinaria granulosa.

SEMESTER-II

ANIMAL DIVERSITY AND VERTEBRATES

CO1: Describe the morphology, habit and habitat. Systematic position and various systems in fish, frog, calotes, Bird and mammal.

CO2: List the various animals in a given phylum.

CO3. State the animal classification.

CO4. Enlist the examples of the phylum's studied.

CO5. Comment on the modifications of common animal forms of the groups studied.

B.Sc. II year

SEMESTER-III

PHYSIOLOGY, ANIMAL BEHAVIOR

CO1: To understand the functions of important physiological systems including the digestive,

cardio- respiratory, renal, reproductive, nervous and muscular systems.

CO2: To analyse the life sustaining, controlling and coordinating systems.

CO3: To analyse the various behavioural patterns in animals.

SEMESTER-IV

CELLBIOLOGY, GENETICS AND DEVELOPMENTAL BIOLOGY

After successfully completing this course, students will be able to learn:

Differentiate prokaryotic and Eukaryotic cell.

CO1: Describe the structure and functions of cell organelles.

CO2: Label the various cell parts and Cell organelles.

CO3: Explain the cell division process and its significance.

CO4: Explain Mendel's principle, its extension and chromosomal basis and determination

of gene action from genotype to phenotype and concepts of inheritance.

CO5: Define the terminologies in genetics.

CO6: Describe the chromosome anomalies and associated diseases

B.Sc-IIIYear

SEMESTER-V

IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY

After successfully completing this course, students will be able to learn the concepts in Immunology and fundamental principles of Biotechnology.

CO1.To remember how immune response is generated in humans to foreign antigens and

B and T cell involved responses.

CO2: To apply the adverse effect of immune system including allergy, hypersensitivity

and autoimmunity

CO3: To understand the Molecular Techniques used in Gene manipulation.

CO4: To evaluate the principles of recombinant DNA technology in medical sciences and industry.

SEMESTER-VI

ECOLOGY, ZOOGEOGRAPHY AND EVOLUTION

After successfully completing this course, students will be able to

CO1.understand the evolutionary mechanism - both selective and random - which can

CO2: Explain the genetic composition of populations, form, and distribution of organisms

CO3: To apply evolutionary hypothesis for a wide variety of biological phenomena.

CO4: To remember zoogeography and its application in conservation of species and biodiversity.