

Departmental Profile

Introduction to the Department:

Zoology is a core biological discipline of science curriculum at UG level and plays an esteemed role in carving out an employable pool of science graduates. Keeping this in view giving an insight into biological aspects of animals, the Department of Zoology was established in the year 1998-99 as a constituent of Government Degree College, Huzurabad and affiliated to Kakatiya University Warangal of Telangana state. Later In the year 2010, college has been affiliated to Satavahana University after establishment of the later. Many eminent persons served as Heads of the department and presently being headed by Mr. G.Paramesh. Thus the department rendered immaculate service so far and creating zeal towards the subject.

Zoology is the branch of biology that includes the study of animals and animal life, including, but not limited to, the study of the anatomy, physiology and classification of animals. Zoology can be subdivided into two categories

- Invertebrate zoology
- Vertebrate zoology

INVERTEBRATE ZOOLOGY: Invertebrate means lacking a spinal column. Animals in this category include species of the following: protozoans, annelids, cnidarians, echinoderms, flatworms, nematodes, molluscs, and arthropods. Invertebrates make up 90% of the Earth's animals. They range in size from minute to extremely large. They possess soft bodies and external skeletons.

VERTEBRATE ZOOLOGY: Vertebrate means to have a spinal column or backbone. Animals in this category include species of the phylum Chordata: fish, birds, reptiles, amphibians, and mammals. These are characterized by a segmented spinal cord and a distinct differentiated head. These animals possess internal skeletons which include the vertebral column which at least partially encloses the spinal cord and a skull which houses the brain. Vertebrates also usually possess two pairs of limbs and an outer covering (fur, skin, feathers).

As major constituent of science Zoology will introduce you to the fascinating diversity of animals, their interactions with each other and their environments. You will develop an

understanding of the forces that have shaped animal groups into highly structured ecosystems and communities. Zoology is a core biological discipline underpinning current interest and research in conservation biology and marine science.

Zoology provides you with the opportunity to study animals and their habitats, including Indian exciting fauna. These habitats are diverse, and range from deserts through to temporary wetlands and rainforests. Zoologists discover the solutions to the problems presented by these habitats. These solutions reflect the evolutionary relationships of the animals. Identifying and understanding the solutions involves studies in anatomy, physiology, reproduction, behaviour, community ecology and molecular genetics. The major integrates theory with practical (both field and laboratory) studies utilizing as examples many of the animals and ecosystems from the diverse state of India. Teaching methods consist of lectures from leading experts, weekly practical and laboratory classes and tutorials. This major includes field trips. The Faculty is well equipped for teaching and research in zoology and our teaching is supported by the world class research of the Centre for Evolutionary Biology.

Objectives:

- To impart knowledge of variety of animals and their distribution
- To make students have a better understanding of man as unity of structure and function
- To give an insight into anatomical, physiological, pathological, behavioural and sociological aspects animals
- To involve students in institutional and extension activities
- To inculcate scientific temper towards research
- To pursue their future endeavours confidently with proper skills and orientation
- To make them more confident and creative to face the challenges of their career

Courses offered:

B.Sc. Life sciences:

Botany, Zoology, Chemistry and Computer applications as part of CBCS bouquet system. A student can opt for any three of the following subjects of his/her choice.