



TELANGANA TRIBAL WELFARE RESIDENTIAL  
DEGREE COLLEGE (GIRLS), KOTHAGUDM

BhadrakotiKothagudem District, Telangana State – 507101  
(Affiliated to Kakatiya University, Warangal, Telangana)

Website: <https://ttwrdds.ac.in/.Kothagudem>



Department of zoology



# **COURSE OUTCOMES OF B.Sc.-ZOOLOGY.**

## **PAPER-1**

### **Animal Diversity - Invertebrates**

- Describe general taxonomic rules on animal classification.
- Classify Protista up to phylum using examples from parasitic adaptation.
- Classify Phylum Porifera to Echinodermata with taxonomic keys
- Describe Phylum Nematoda and give examples of pathogenic Nematodes

### **Animal Diversity-vertebrates**

- Imparts conceptual knowledge of vertebrates ,their adaptation and associations in relation to their environment
- Classify phylum Protochordates to Mammalia
- Complex vertebrate interactions

## **PAPER-II**

### **Physiology,Biochemistry& Animal behaviour**

- Seeks to understand the mechanisms that work to keep the human body alive and functioning.
- Physiological & Bio chemical understanding through scientific enquiry into the nature of mechanical, physical & Bio chemical functions of humans,Their organs & the cells of which they are composed

- Interaction & Interdependence of physiological & Bio chemical processes.

### **Cell biology,Genetics**

- Structural and functional aspects of basic unit of life that is cell concepts
- Mendelian and Non mendelian inheritance
- Concept behind genetic disorder, gene mutation-various causes associated with inborn errors of metabolism
- Understand Animal behaviour and response of Animal to different insects

### **Molecular genetics & Developmental biology**

- Knowledge about Genetics ,Developmental biology & organogenesis
- Application of DNA Technology & Molecular biology for research
- Gains knowledge about Gametogenesis,Cleavage mechanisms,gastrulation and role of hormones and metamorphosis and regeneration
- Provides students insight into maintaing healthy relationship with their opposite gender and allows them to make right choice about their life partner thus preventing congenital/consanguial diseases.

## **PAPER-III**

### **Immunology**

Co I Imparts in depth knowledge of tissues , cells & Molecules involved in host defence mechanisms

CO 2 Understanding of types of immunity.

CO 3 Interaction of antigens ,antibodies , complements and their immune components

CO 4 Understanding of immune mechanism in disease control, vaccination, process of immune interaction

### **Animal biotechnology**

- Imparts the knowledge to culture animal cells in artificial media
- Knowledge of animal cells in culture,growth of cell lines
- Use in recombinant DNA Technology ,genetic manipulation and in a variety of industrial processes

### **Ecology, Zoogeography and Evolution**

- Distribution of fauna in different realms interaction
- Interaction of biota & a biota
- Various kinds of animal adaptations.
- Imparts knowledge regarding various theories of evolution,evolutionary process such as variation , speciation ,natural selection , origin of primates and man.

- Understanding of origin and salient features of Ostracoderms to Actinopterygii , adaptive radiations of amphibians , reptiles ,birds and mammals
- Gains knowledge of functional anatomy of vertebrates from fishes to mammals
- Understanding of evolutionary significance of internal fertilization , neoteny and paedogenesis
- Identifies the significance of amniotic egg it's structure and evolutionary significance of skeletal system

### **Bio diversity and conservation**

- Bio diversity and conservation explores natural landscape , species and ecosystems and acquires theories and practical methods in preserving environments and organisms
- Bio diversity refers not only to endangered species but also to every organism including microbes and fungi
- Bio diversity and conservation increase awareness and understanding of human life depends on preserving animal species and natural ecosystem

### **Applied Zoology**

- Understand concept of fisheries , fishing tools and site selection
- Aqua culture systems , induced breeding techniques , post harvesting techniques
- Understands about composition of blood , blood born disease , autopsy & biopsy
- Types of immunity , antigens – antibodies and their properties

## Sericulture

- Gives knowledge of silk worm rearing.
- Mulberry cultivation
- Pest and diseases associated with silk worm and mulberry
- Various process involved in silk production

## COURSE OUTCOMES

YEAR	SEM -I	SEM -II	SEM-III	SEM-IV	SEM-V	SEM-VI	AVERAGE
2018-19	8.25	8.56	8.93	8.81	-	-	8.63
2019-20	8.38	8.38	8.38	8.59	8.45	8.57	8.45
2020-21	7.39	7.93	8.07	8.94	8.08	8.32	8.12
2021-22	7.91	8.51	7.35	7.97	9.97	8.94	8.30
2022-23	7.55	7.88	8.49	8.35	8.43	8.48	8.19