

# **GOVERNMENT DEGREE COLLEGE, MANDAPETA**

## **DEPARTMENT OF ZOOLOGY**

### **Objectives and General Outcomes of Program and Domain Subject**

#### **Program (B.Sc.) Objectives:**

The objectives of bachelor's degree programme with ZOOLOGY are:

1. To provide a comprehensive knowledge on various aspects related to microbes and plants.
2. To deliver knowledge on latest developments in the Animal sciences with a practical approach.
3. To produce a student who thinks independently, critically and discuss various aspects of plantlife.
4. To enable the graduate to prepare and pass through national and international examinations related to Botany.
5. To empower the student to become an employee or an entrepreneur in the field of Botany /Biology and to serve the nation.

#### **Program Outcomes:**

1. Understand the basic concepts of Zoology in relation to its allied core courses.
2. Perceive the significance of microbes and plants for human welfare, and structural and functional aspects of plants.
3. Demonstrate simple experiments related to plant sciences, analyze data, and interpret them with the theoretical knowledge.
4. Work in teams with enhanced inter-personal skills.
5. Develop the critical thinking with scientific temper.
6. Effectively communicate scientific ideas both orally and in writing.

#### **Domain Subject (ZOOLOGY) Objectives:**

1. To impart knowledge on origin, evolution, structure, reproduction and interrelationships of microbes and early plant groups.
2. To provide knowledge on biology and taxonomy of true land plants within a phylogenetic framework.
3. To teach aspects related to anatomy, embryology and ecology of Animals, and importance of Biodiversity.
4. To explain the structural and functional aspects of Animals with respect to the cell organelles, chromosomes and genes, and methods of plant breeding.
5. To develop a critical understanding on SPAC, metabolism and growth and development in plants.
6. To enable the students proficient in experimental techniques and methods of analysis appropriate for various sub-courses in Zoology.

#### **Domain Subject (ZOOLOGY) Outcomes:**

1. Students will be able to identify, compare and distinguish various groups of

microbes and primitive plants based on their characteristics.

2. Students will be able to explain the evolution of Animals and also distribution of plants on globe.
3. Students will be able to discuss on internal structure, embryology and ecological adaptations of animals, and want of conserving Biodiversity.
4. Students will be able to interpret life processes in Animals in relation to physiology and metabolism.
5. Students will be able to describe ultrastructure of plant cells, inheritance and crop improvement methods.
6. Students will independently design and conduct simple experiments based on the knowledge acquired in theory and practical's of the different sub-courses in Botany.