** GOVERNMENT DEGREE COLLEGE **

**PORUMAMILLA, KADAPA**

**NAAC Accredited with ‘C’ Graded**

**DEPARTMENT OF ZOOLOGY**

**B.Sc. in Zoology is an undergraduate Program in Zoology. Zoology is the branch of science which deals with the study of animal kingdom including the evolution, structure, Physiology, classification, embryology, habits, habitat and distribution of all the animals. The B.Sc. Zoology course is premeditated to introduce students to the study of zoology at the organismal and organ function levels. The theoretical part of the program deals with the general principles of classical as well as modern zoology. The program provides the student with an introduction to the recent advances in zoology in the areas of systematic, evolution, reproduction, development, animal diversity, biochemistry, cytology and animal ecology. This course is offered for candidates who are interested in the study of animals. The minimum time required to complete the course is three years.**

**Objectives:**

* **Imparting quality education in Zoology has been the focus of the department right from its inception.**
* **Emphasis is given on education both within and outside the classroom.**
* **The Department is dedicated to fulfill the following objectives through the curricular and co-curricular activities.**
* **To provide students with knowledge of fundamental principles in zoology that will provide a foundation for their later advanced course in more specific biological subjects.**
* **To make students familiar with animal classification schemes and other applied courses as well as developing an understanding of and ability to apply basic zoological principles.**
* **To integrate the laboratory and lecture sections of the course and directed toward teaching students both in the classroom and on the field.**
* **To provide quality education offering skill based programs and motivate the students for self-employment in applied branches of Zoology.**
* **To inculcate the value based education and entrepreneurial skills among the students.**
* **To create awareness on environmental issues through various activities.**

**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 Processes and phenomena.**

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

**Programme Specific Outcomes**

**PSO1. Ability to connect and apply biological knowledge to other disciplines and to integrate knowledge into their personal and professional lives.**

**PSO2. Explain the origin of life with context to the origin of eukaryotic cell and endosymbiotic theory of origin, fossil records, Darwinism and Neo- Darwinism, experimental evidences.**

**PSO3. Illustrate zoological science for its application in branches like medical entomology, apiculture, aquaculture and agriculture etc**

**PSO4. Understand animal interactions with the environment and identify the major groups of organisms with an emphasis on animals and classify them within a phylogenetic framework.**