

## **Program Specific Outcome and Course Outcome for M.Sc, Zoology**

### **Program Specific Outcome**

**PSO – 1:** To understand the value of animal diversity and its relevance to the environment.

**PSO – 2:** To develop practical and problem - solving skills in students and encourage them to carry out innovative research to address societal needs.

**PSO– 3:** To equip students to perform a level of higher competence in national and international organizations and competitive examinations.

**PSO – 4:** To acquire communication skill, interpersonal skill, technical skill, teamwork skill through an internship programme.

**PSO – 5:** To acquire communication skill, interpersonal skill, technical skill, teamwork skill through an internship programme.

**PSO – 6:** To inculcate entrepreneurial skill with special attention on aquaculture, value addition of marine food and apiculture etc.

## COURSE OUTCOMES

### M.SC. ZOOLOGY, Dr. SRKGAC, Yanam

S.No	Course Code	Course Name	Course Outcome
1	Semester 1	ZOHT101	Structure and Functions of Invertebrates Understand the emergence, diversity and distribution of invertebrate fauna. Know about the basic pattern of animal organizations and their peculiarities.
2		ZOHT102	Structure and Functions of Chordates Understand the diversity and distribution of animals. Understand the structural modifications of chordates.
3		ZOHT103	Biomolecules and Structural Biology Understand the structural and functional properties of biomolecules and metabolic pathways.
4		ZOHT104	Cell and Molecular Biology Appreciate the structural organization and functions of cell organelles. Understand the cell cycle, interactions and signaling.
5		ZOSC 105	Public Health and Hygiene / Economic Zoology Acquire knowledge on communicable and non-communicable diseases of man Apply the modern techniques in pearl culture, poultry farming, sericulture and apiculture. Pave the way for alternative livelihood.
6		ZOHP106	Practical - I To have hands on experience of dissecting invertebrates and chordates. Appreciate the diversity of animals and their structural peculiarities.
7	Semester 2	ZOHT 201	Genetics Understand the concepts of genetics and its importance in human health. Learn the advancement of genetics and its applications for mankind.
8		ZOHT 202	Endocrinology Acquire knowledge about the chemical co-ordination of life. Understand how hormones regulate reproductive function.
9		ZOHT 203	Animal Ecology and Ethology Analyze complex interactions among the various animals of different phyla Understand the concepts of ecosystem

				and species interactions.
10		ZOHT 204	Animal Physiology	Understand the physiological processes and organ systems of animals. Understand how these systems produce physiological responses.
11		ZOSC 205	Public Health and Hygiene (for Others)	Acquire knowledge on communicable and non-communicable diseases of man Understand human health based on environmental issues.
12		ZOHP 206	Practical - II	To study the architecture of endocrine glands. To learn about the estimation of the physiological parameters of man.
13		ZOSI 207	Summer Internship Program	Improve innovation and entrepreneurship development. Understand Industry interface and soft skills. Understand significance of awareness camps and village adoption.
14	Semester 3	ZOHT 301	Developmental Biology	Understand the biological process involved in the development. Appreciate the events involved in the interaction of gametes and embryogenesis
15		ZOHT 302	Immunology	Distinguish various cell types involved in immune responses Characterize antibody isotypes, development, and functions.
16		ZOHT 303	Fisheries and Aquaculture	Acquire the basic knowledge about the biology, morphometry and meristic characters of fishes. Learn the status of the culture and capture fisheries of India
17		ZOSC 304	Fish Preservation and Value Addition Techniques	Understanding on the nutritional importance current consumption patterns and gaps. Development of skill in fish processing technology and value addition
18		ZOSC 305	Environmental Toxicology / Health Profession Education	Understand the assimilation and expression of xenobiotic. Promote safe disposal and treatment of

				contaminants.
19		ZOHP 306	Practical - III	Gain knowledge on lymphoid organs and their significance gain knowledge on common edible fishes and their identification
20	Semester 4	ZOHT 401	Biological Techniques and Bioinformatics	To learn about the basics of most often used tools, techniques, methodologies and methods of analysis used in biological research. To characterise and manage the different types of Biological data.
21		ZOHT 402	Evolution and Conservation Biology	Realize the complexity of evolutionary processes, speciation and extinction Understand the evolution of gene and genetics.
22		ZOPW 403	Individual Project - Dissertation	To inculcate research aptitude and skills in using various biological tools and techniques
23		ZOPV 404	Individual Project - Viva-Voce	To develop skills to pursue application oriented research
24		ZOHP 405	Practical - IV	Familiarize with various separation and estimation techniques Able to use statistical tools and packages
25		ZOSC 406	Aquaculture (for Others only)	Acquire the basic knowledge about the biology, morphometry and meristic characters of fishes. Learn the status of the culture and capture fisheries of India