Course Outcomes of B.Sc./ B.Sc. (Honours)/ B.Sc (Honours) with Research (FYUGP)			
Subject: Zoology			
Semester	**Course Category**	**Paper Code and Course Name**	**Outcomes**
1st	**Major/Minor**	**ZLG0100104** **Diversity of Non-Chordates**	Upon completion of the course, students should be able to: CO1: Learn about the importance of systematics, taxonomy and structural organization of animals. CO2: Understand evolutionary history and relationships of different non-chordates through functional and structural affinities. CO3: Critically analyse the organization, complexity and characteristic features of non-chordates making them familiarize with the morphology and anatomy of representatives of various animal phyla. CO4: Comprehend the economic importance of non- chordates, their interaction with the environment and role in the ecosystem. CO5: Enhance collaborative learning and communication skills through practical sessions, team work, group discussions, assignments and projects.
2nd	**Major/Minor**	**ZLG0200104** **Diversity of Chordates**	Upon completion of the course, the students will be able to: CO1: Understand different classes of chordates, level of organization and evolutionary relationship between different subphyla and classes, within and outside the phylum. CO2: Study about diversity in animals making students understand about their distinguishing features. CO3: Appreciate similarities and differences in life functions among various groups of animals in Phylum Chordata. CO4: Comprehend the circulatory, nervous and skeletal system of chordates. CO5: Know about the habit and habitat of chordates in marine, freshwater and terrestrial ecosystems.
3rd	**Major/Minor**	**ZLG0300104** **Principles of Genetics**	Upon completion of the course, the students will be able to: CO1: Understand the basic principles of inheritance. CO2: Analyze Mendelian Law and gene interactions leading to development of analytical skills and critical thinking enabling the students to present the conclusion of their findings in a scientific manner. CO3: Know the mechanisms of mutations, the causative agents and the harmful impact of various chemicals and drugs being used in day-to-day life. CO4: Gain knowledge on genetic and environmental basis of sex determination.

4th	**Major/Minor**	**ZLG0400104 Animal Taxonomy, Systematics & Biostatistics**	Upon completion of the course, the students will be able to: CO1: Understand the general principles of taxonomy and systematics CO2: Explain the importance of Zoological nomenclature and its rules CO3: Understand the importance of systematics in biology and comprehend the taxonomic categories and explain the concept of species CO4: Acquire basic knowledge of phylogeny and understand important terminologies to represent phylogenies
	DSE 1	**Animal Physiology & Endocrinology**	Upon completion of the course, students will be able to: CO1: Understand the principles of normal biological function of the animal body. CO2: Understand basic animal physiology and correlate it with the various histological structures. CO3: Understand the homeostasis in animals in response to changes in their external environment. CO4: Perform practical related to animal physiology.
	DSE 2	**Principles of Ecology & Evolution**	After completion of the course, students will be able to learn about the: CO1: Understanding of key concepts in ecology with emphasis on historical perspective, role of physical factors and concept of limiting factors etc. CO2: Figure out the population characteristics, population dynamics, growth models and interactions. CO3: Recognize the community characteristics, ecosystem development and climax theories. CO4: Know about the types of ecosystems, food chains, food webs, energy models, and ecological efficiencies. CO5: Apply the basic principles of ecology in wildlife conservation and management. CO6: Instill scientific quantitative skills, evaluate experimental design, read graphs, and analyse and use information available in scientific literature.
	DSE 3	**Comparative Anatomy of Vertebrates**	Upon completion of the course, students should be able to: CO1: Explain comparative account of the different vertebrate systems and understand the pattern of vertebrate evolution, organization. CO2: Learn the comparative account of integument, skeletal components, their functions and modifications in different vertebrates. CO3: Understand the evolution of brain, sense organs and excretory organs to a complex, highly evolved forms; CO4: Learn to analyse and critically evaluate the structure and functions of vertebrate systems, which helps them to discern the developmental, functional and evolutionary history of vertebrate species.

	DSE 4	**Animal Behaviour & Chronobiology**	After the completion of this course, the students will be able to CO1: Acquire a comprehensive understanding of the behaviour of animals and gain knowledge on profiles of behavioural biologists and their contributions to the field of animal behaviour. CO2: Understand and analyse the causes and patterns of behaviour. CO3: Understand the social nature of animals and communication among individuals of animal societies and utilise scientific methods of studying animal behaviour. CO4: Understand basic terms and concepts of chronobiology and comprehend the significance of biological rhythms.
	DSE 5	**Parasitology**	After completion of the course the students will be able to: CO1: Understand the variation among parasites, parasitic invasion with special reference to medical and agricultural aspects. CO2: Help to know the stages of the life cycle of parasites and their respective infective stages. CO3: Develop skills and realize significance of diagnosis of parasitic attack and treatment of host. CO4: Mapping of the parasites available in regional/national importance/zoonotic diseases.