B.Sc. Zoology (Hon's)

PROGRAME OUTCOME	COURSE NAME	COURSE CODE	COURSE OUTCOME
❖ Communicate basic science effectively by written and computational means. ❖ Create scientific ideas from basic knowledge. ❖ Identify the economically important animals and may utilize the techniques learned to get the useful and valuable products like bees, wax, honey, silk thread, ink, sponges, Vitamins. ❖ Identify applications of science in other disciplines and in the real-world, leading to enhancement of career prospects in a plethora of fields and research.	1. Non-Chordates	BSC-H-ZOO-101	1. After completion of the course students acquire the broad knowledge of invertebrate group of animals. 2. Able to identify and classify the animals of different phylum. 3. Understand the general morphology and histology of different animals.
	2. Principles of Ecology	BSC-H-ZOO-102	1. Get the knowledge the structural and functional components of ecosystem. 2. They understand the interaction of living components of environment. 3. They can also deduce the interaction of living and nonliving components and their balance in nature. 4. Able to apply their knowledge of conservation practically.
	3. Animal Diversity	BSC-H-ZOO-103B	1. Able to identify the different groups of animal. 2. Can classify and arrange them in groups according to their simple and advanced characters. 3. Able to understand the animal life in detail. Can apply the economic importance of animals.
	4. Diversity of Proto-chordates and Lower Chordates	BSC-H-ZOO-201	1. Students will understand the diversity of Lower Chordates. 2. Able to identify and classify the animals. 3. Apply the knowledge of economic importance in industries to get the valuable things.
	5. Cell Biology	BSC-H-ZOO-202	1. Students get the knowledge of detailed structure of cell components. 2. Able to describe the different processes by substances are transported across the membrane. 3. Get the knowledge of semiautonomous nature of mitochondria and cell signalling.
	6. Environment and Public Health	BSC-H-ZOO-203B	1. Students understand the proper management of waste. 2. Can classify the wastes.

			3. Able to describe the recent technology for reduce the load of environmental pollution.
			4. Can apply the knowledge for welfare of society and restore the sustainable environment.
	7. Diversity of Higher Chordates	BSC-H-ZOO-301	1. Acquire the knowledge of animal world.
			2. Able to identify, classify the higher chordates.
			3. Able to describe origin and development of chordates.
			4. To deduce the idea and concept that the chordates gradually evolve from its primitive condition to evolved one.
			5. Apply the knowledge of fossils in archaeological studies.
	8. Physiology	BSC-H-ZOO-302	1. Get the knowledge of anatomical details of body.
			2. Describe basic structural details and location of different system.
			3. Deduce the some concept of basic physiology of hormones and muscle.
	9. Fundamentals Of Biochemistery	BSC-H-ZOO-303	1. Define the protein, carbohydrates lipids nucleic acids.
			2. Describe the basic structure and configuration of these biomolecules.
			3. Classify the proteins and enzymes and carbohydrates.
			4. Deduce the role of these biomolecules in metabolic process can use the application of enzyme activities in different experiment.
	10. Food, Nutrition, Health	BSC-H-ZOO-304B	1. Students are able to understand the components of food and their nutritional value.
			2. Describe the health and hygiene.
			3. Deduce the deficiency diseases.
			4. Can describe the Food and water borne infections in detail.
	11. Aquarium and Fish Keeping	BSC-H-ZOO-305B	1. Students are able to understand the fish keeping and maintenance of aquarium.
			2. Describe the method of fish rearing techniques.
			3. They can apply the knowledge for their self employment.
	12. Comparative Anatomy of Vertebrates	BSC-H-ZOO-401	1. Students are able to understand and the structural details of different groups of animals.
			2. They can describe and compare the anatomical details of animals.
			3. Deduce the relationship between different animals.
			4. Applications of the knowledge of the subject help to generate the idea for their ancestry.
	13. Physiology: Life	BSC-H-ZOO-402	1. Students will get acquainted with the anatomical details of different

	Sustaining System		system. 2. Can describe the physiology of life processes. 3. Deduce the regulation of different physiological processes. 4. Apply the techniques learned during the course.
	14. Biochemistry of Metabolic Process	BSC-H-ZOO-403	1. Students will describe metabolism of carbohydrates, proteins, lipids etc. 2. They will develop skill in the related area by experiments. 3. Able to describe the fundamentals of the topics.
	15. Human physiology	BSC-H-ZOO- 404 A	1. Students will get acquainted with the anatomical details of different system. 2. Become familiar with basic factual information concerning the mechanism and functioning of animals. 3. Deduce the regulation of different physiological processes. 4. Apply the techniques learned during the course.
	16. Sericulture	BSC-H-ZOO-405 C	1. Students will able to get detail knowledge of biology of silkworm. 2. They can identify the worm as well as its pests and diseases. 3. Can describe the techniques of rearing of silkworm. 4. Can generate or get employments in this field.
	17. Molecular biology	BSC-H-ZOO-501	1. Students will able to understand the most significant molecular processes and expand the knowledge of biology. 2. Conduct independent work in a laboratory.
	18. Principle of Genetics	BSC-H-ZOO-502	1. Students will acquire the knowledge of genetic basis of inheritance. 2. Can describe the process of meiosis and normal behaviour of gene. 3. They can understand the chromosomal aberration and bacterial recombination.
	19. Animal Biotechnology	BSC-H-ZOO-503C	1. Students will able to differentiate between old and new and modern Biotechnology. 2. Able to describe the monoclonal antibodies production and uses. 3. Apply the knowledge to produce the pharmaceutical products.
	20. Biology of Insecta	BSC-H-ZOO-504 B	1. Students will identify and classify the insects. 2. Able to describe the morphology and physiology of insect. 3. Apply the knowledge of insect pests control for different plants.
	21. Developmental Biology	BSC-H-ZOO-601	1. Students get the knowledge of different developmental stages. 2. They can identify particular stage of development. 3. Deduce the phylogenetic relation of different group of animal on this

			basis.
	22. Evolutionary Biology	BSC-H-ZOO-602	1. To have an enhanced knowledge of evolutionary biology.
			2. Able to analyze and report on experiments and observation in whole organism biology.
	23. Fish and Fisheries	BSC-H-ZOO-603 A	1. Students will able to identify the different types of fishes their habitat and economic importance.
			2. Can apply the knowledge for fish culturing practically.
	24. Parasitology	BSC-H-ZOO-604A	1. Students able to understand the nature and habitat of different parasites.
			2. Identify the parasitic diseases.
			3. Able to describe morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity of different parasites.