

# COURSE OUTCOME

## Zoology

	Semester	Course Code	Course Title	Outcome
Zoology Honours	Semester-I	ZOOL-H-CC-T-01	Non-chordates I: Protista to Pseudocoelomates	This course explores non-chordate animals, spanning from Protista, diverse single-celled organisms, to Pseudocoelomates, demonstrating the evolutionary variety and complexity within this animal group.
		ZOOL-H-CC-P-01	Non-chordates I: Protista to Pseudocoelomates Lab	
		ZOOL-H-CC-T-02	Non-chordates II: Coelomates	This course delves into non-chordate coelomates, elucidating their diverse body plans and coelom variations, enhancing understanding of fundamental anatomical features across a broad spectrum of animal species.
		ZOOL-H-CC-P-02	Non-chordates II: Coelomates Lab	
		ZOOL-H-GE-T-01	Animal Diversity and Taxonomy	Through this course, students explore the vast array of animal species, their classification, and evolutionary relationships. They develop skills in systematic analysis, understanding the rich tapestry of life.
		ZOOL-H-GE-P-01	Animal Diversity, Taxonomy Lab	
		ZOOL-H-CC-T-03 4	Perspectives in Ecology	This course provides insights into ecological principles, interrelationships, and human impact on ecosystems. Students gain a holistic understanding to address contemporary environmental challenges and foster sustainable practices.
		ZOOL-H-CC-P-03	Perspectives in Ecology Lab	

<b>Semester-II</b>	ZOOL-H-CC-T-04	Cell Biology	<b>Through this course, students explore the intricacies of cell structure, function, and processes. They grasp fundamental knowledge essential for understanding life at its most basic level.</b>
	ZOOL-H-CC-P-04	Cell Biology Lab	
	ZOOL-H-GE-T-02	Comparative Anatomy, Developmental Biology of Vertebrates and Ecology	<b>In this course, students uncover the intricacies of vertebrate anatomy, embryonic development, and ecological interactions. They gain a holistic perspective on organisms, their evolution, and environmental roles.</b>
	ZOOL-H-GE-P-02	Comparative Anatomy and Developmental Biology of Vertebrates Lab	
<b>Semester-III</b>	ZOOL-H-CC-T-05	Diversity of Chordates	<b>This course explores the remarkable variety of chordate animals, from fish to mammals. Students delve into evolutionary adaptations, anatomical diversity, and ecological roles within this diverse vertebrate group.</b>
	ZOOL-H-CC-P-05	Diversity of Chordates Lab	
	ZOOL-H-CC-T-06	Animal Physiology: Controlling and Coordinating Systems	<b>In this course, students delve into the intricacies of animal physiological systems, focusing on control and coordination mechanisms. Understanding how organisms regulate functions enhances insight into complex biological processes.</b>
	ZOOL-H-CC-P-06	Animal Physiology: Controlling and Coordinating Systems Lab	
	ZOOL-H-CC-T-07	Fundamentals of Biochemistry	<b>This course imparts essential knowledge of biochemistry, unveiling molecular processes that underlie life. Students grasp key biomolecules, cellular metabolism, and biochemical reactions fundamental to biological systems.</b>
	ZOOL-H-CC-P-07	Fundamentals of Biochemistry Lab	
	ZOOL-H-GE-T-03	Cell Biology, Genetics and Evolutionary Biology	<b>This course integrates cellular processes, genetic mechanisms, and evolutionary principles. Students explore how molecular interactions shape life's diversity, understanding the unity and complexity of biological systems.</b>
	ZOOL-H-GE-P-03	Cell Biology, Genetics and Evolutionary Biology Lab	
	ZOOL-H-SEC-01	Aquarium Fish Keeping	<b>This course equips students with knowledge and skills for maintaining healthy aquarium environments. They learn about fish species, water chemistry, equipment, and ethical considerations for responsible fish keeping.</b>

		ZOOL-H-SEC-02	Apiculture	<b>In this course, students explore the art and science of beekeeping. They gain insights into bee behavior, hive management, honey production, and the ecological importance of pollinators in ecosystems.</b>
<b>Semester-IV</b>		ZOOL-H-CC-T-08 4	Comparative Anatomy of Vertebrates	<b>Through this course, students explore anatomical variations and evolutionary adaptations among vertebrate species. Comparative analysis deepens understanding of structural diversity and functional significance within this diverse group.</b>
		ZOOL-H-CC-P-08	Comparative Anatomy of Vertebrates Lab	
		ZOOL-H-CC-T-09	Animal Physiology: Life Sustaining Systems	<b>This course delves into vital animal physiological systems that maintain life, such as respiration, circulation, and excretion. Students comprehend mechanisms essential for organismal survival and functioning in various environments.</b>
		ZOOL-H-CC-P-09	Animal Physiology: Life Sustaining Systems Lab	
		ZOOL-H-CC-T-10	Immunology	<b>This course elucidates the intricate immune system's workings, from defense mechanisms to immunological disorders. Students gain insights into host-pathogen interactions and the body's protective responses against diseases.</b>
		ZOOL-H-CC-P-10	Immunology Lab	
		ZOOL-H-GE-T-04	Physiology and Biochemistry	<b>Through this course, students delve into physiological functions and biochemical processes in organisms. They gain insights into how molecular interactions drive life's essential functions and</b>
		ZOOL-H-GE-P-04	Physiology and Biochemistry Lab	
		ZOOL-H-SEC-03	Sericulture	<b>This course delves into sericulture, unraveling the lifecycle of silk-producing insects, silk production techniques, and their socioeconomic and ecological significance. Students gain insights into this intricate industry.</b>
		ZOOL-H-SEC-04	Medical Diagnostic Techniques	<b>In this course, students learn various diagnostic methods used in medicine. They explore imaging, laboratory tests, and molecular techniques essential for accurate disease identification, treatment, and patient care.</b>

Semester-V	ZOOL-H-CC-T-11	Molecular Biology	Through this course, students grasp molecular mechanisms governing genetic information, gene expression, and cellular processes. Understanding molecular biology enriches insight into fundamental biological phenomena and technological advancements.
	ZOOL-H-CC-P-11	Molecular Biology Lab	
	ZOOL-H-CC-T-12	Principles of Genetics	This course explores fundamental genetic principles, including inheritance patterns, genetic variation, and molecular genetics. Students gain insight into how traits are passed down and genetic diversity emerges.
	ZOOL-H-CC-P-12	Principles of Genetics Lab	
	ZOOL-H-DSE-T-01	Fish and Fisheries	This course explores the biology, ecology, and conservation of fish species. Students gain insights into fisheries management, sustainable practices, and the vital role of aquatic ecosystems in global biodiversity.
	ZOOL-H-DSE-P-01	Fish and Fisheries Lab	
	ZOOL-H-DSE-T-02	Microbiology	This course delves into the world of microorganisms, unveiling their diverse roles in health, environment, and industry. Students explore microbial structure, function, and interactions, and their significance in various contexts.
	ZOOL-H-DSE-P-02	Microbiology Lab	
	ZOOL-H-DSE-T-03	Wildlife Conservation and Management	Through this course, students comprehend strategies for protecting and sustaining wildlife populations and habitats. They explore conservation ethics, management techniques, and global efforts to preserve biodiversity and ecosystems.
	ZOOL-H-CC-T-13	Developmental Biology	In this course, students delve into the processes shaping organisms from fertilization to adulthood. Understanding developmental biology illuminates the complexities underlying growth, differentiation, and morphogenesis in various species.
ZOOL-H-CC-P-13	Developmental Biology Lab		

	Semester-VI	ZOOL-H-CC-T-14	Evolutionary Biology	Through this course, students unravel the mechanisms driving biological evolution. They explore genetic variation, natural selection, speciation, and adaptation, fostering a deep understanding of life's diversification and history.
		ZOOL-H-DSE-T-04	Parasitology	This course delves into the study of parasitic organisms, their life cycles, interactions with hosts, and impacts on ecosystems and human health. Students gain insights into parasitology's ecological and medical relevance.
		ZOOL-H-DSE-P-04	Parasitology Lab	
		ZOOL-H-DSE-T-05	Endocrinology	In this course, students delve into the intricate world of hormones and their regulatory roles in organisms. They explore endocrine systems, signaling pathways, and physiological responses underlying various biological processes.
		ZOOL-H-DSE-P-05	Endocrinology Lab	
		ZOOL-H-DSE-T-06	Biology of Insecta	This course explores the fascinating world of insects, encompassing their diverse adaptations, behaviors, and ecological roles. Students gain insights into insect biology and their significance in ecosystems and human affairs.
Zoology PCC	Semester-I	ZOOL-G-CC-T-01	Animal diversity and taxonomy	This course explores the vast array of animal life, delving into classification, evolutionary relationships, and biodiversity. Students gain skills in identifying, categorizing, and understanding the complexity of animal species.
		ZOOL-G-CC-P-01	Animal diversity and taxonomy Lab	
	Semester-II	ZOOL-G-CC-T-02	Comparative anatomy, Developmental Biology of vertebrates and Ecology	This course intertwines vertebrate anatomy, developmental biology, and ecological principles. Students grasp how form, growth, and environmental interactions shape diverse organisms and ecosystems, fostering comprehensive biological understanding.
		ZOOL-G-CC-P-02	Comparative anatomy, Developmental Biology of vertebrates and Ecology lab	
		ZOOL-G-CC-T-03	Cell biology, Genetics and Evolutionary Biology	This course integrates cell biology, genetics, and evolutionary concepts. Students explore the molecular foundations of life, genetic inheritance, and how evolutionary processes shape biodiversity and adaptation over time.

<b>Semester-III</b>	ZOOL-G-CC-P-03	Cell biology, Genetics and Evolutionary Biology lab	
	ZOOL-G-SEC-01	Aquarium Fish keeping	<b>This course equips students with skills for maintaining thriving aquariums. They learn about fish species, tank management, water chemistry, and ethical considerations in responsible fish keeping.</b>
<b>Semester-IV</b>	ZOOL-G-CC-T-04	Physiology and Biochemistry	<b>In this course, students delve into physiological mechanisms and biochemical processes that underpin life. They gain insights into how organisms function at the molecular level and maintain</b>
	ZOOL-G-CC-P-04	Physiology and Biochemistry lab	
	ZOOL-G-SEC-02	Apiculture	<b>This course delves into the practice of beekeeping, covering bee behavior, hive management, honey production, and the crucial role of bees in pollination and ecosystems. Students gain insights into apicultural practices.</b>
<b>Semester-V</b>	ZOOL-G-DSE-T-01	Fish and fisheries	<b>This course explores aquatic life, focusing on fish species and their ecological roles. Students study fisheries management, conservation, and the intricate relationship between aquatic ecosystems and human societies.</b>
	ZOOL-G-DSE-P-01	Fish and fisheries Lab	
	ZOOL-G-DSE-T-02	Wildlife Conservation And Management	<b>This course delves into strategies for conserving and managing wildlife populations and their habitats. Students explore conservation ethics, methods, and global efforts to safeguard biodiversity and ecosystems.</b>
	ZOOL-G-DSE-P-02	Wildlife Conservation And Management Lab	
	ZOOL-G-SEC-03	Sericulture	<b>This course explores the life cycle of silk-producing insects, silk production techniques, and the socio-economic and ecological significance of sericulture. Students gain insights into this intricate industry.</b>
<b>Semester-VI</b>	ZOOL-G-DSE-T-02	Parasitology	<b>In this course, students delve into the study of parasites, their life cycles, and interactions with hosts. They gain insights into the intricate ecological and medical dimensions of parasitology.</b>
	ZOOL-G-DSE-P-02	Parasitology Lab	
	ZOOL-G-DSE-T-04	Biology of Insecta	<b>This course delves into the world of insects, their diversity, behavior, ecology, and importance. Students explore the intricate relationships between insects and ecosystems, as well as their impact on human affairs.</b>
	ZOOL-H-DSE-P-06	Biology of Insecta Lab	

		ZOOL-G-SEC-04	Medical Diagnostic  Techniques	<b>This course equips students with skills in various diagnostic methods used in medicine. They explore imaging, laboratory tests, and molecular techniques essential for accurate disease identification and patient care.</b>
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