

▼ Course Outcomes

Programme	Course	Name of Unit	
B. Sc. (First Year)	USZO101 (Course 1)	Wonders of Animal World, Biodiversity and its Conservation	<p>Curiosity will be ignited in the mind of learners, to know more about the fascinating world of animals which would enhance their interest and love for the subject of Zoology.</p> <p>Learners would appreciate treasure of Biodiversity, its importance and hence would contribute their best for its conservation.</p> <p>Minds of learners would be impulse to think differently and would be encouraged ipso facto to their original crude ideas from the field of biological sciences.</p>
	USZO102 (Course 2)	Instrumentation and Animal Biotechnology	<p>Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions</p> <p>Learners would understand recent advances in the subject and their applications for the betterment of mankind; and that the young minds would be tuned to think out of the box.</p> <p>Students will be skilled to select and operate suitable instruments for the studies of different components of Zoology of this course and also of higher classes including research.</p>

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	USZO201 (Course:3)	Ecology and Wildlife Management	<p>This unit would allow learners to study about nature of animal population, specific factors affecting its growth and its impact on the population of other life form.</p> <p>Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna.</p> <p>Learners would be inspired to choose career options in the field of wild life conservation, research, photography and ecotourism.</p>
	USZO 202 (Course 4)	Nutrition, Public health and Hygiene	<p>Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits.</p> <p>Promoting optimum conservation of water, encouragement for maintaining adequate personal hygiene, optimum use of electronic gadgets, avoiding addiction, thus facilitating achievement of the goal of healthy young India in true sense.</p>

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			<p>Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases.</p>
<p>B. Sc. (Second Year)</p>	<p>USZO301 (Course 5)</p>	<p>Fundamentals of Genetics, Chromosomes and Heredity and Nucleic Acids</p>	<p>Understand and apply the principles of inheritance.</p> <p>Understand the concept of multiple alleles, linkage and crossing over.</p> <p>Learners would understand the structure and types of chromosomes.</p> <p>Learners would understand mechanisms of sex determination.</p> <p>Learners would be able to correlate the disorders linked to a particular sex chromosome.</p> <p>Learner would understand the importance of nucleic acids as genetic material.</p> <p>The learners would understand and appreciate the regulation of gene expressions.</p>
	<p>USZO301 (Course 6)</p>	<p>Nutrition, Excretion, Respiration, Circulation, Control and Co-</p>	<p>Learners would understand the increasing complexity of nutritional, excretory and osmoregulatory physiology in evolutionary</p>

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		<p>ordination, Locomotion and Reproduction</p>	<p>hierarchy.</p> <p>Learners would be able to correlate the habit and habitat with nutritional, excretory and osmoregulatory structures.</p> <p>Learners would understand the increasing complexity of respiratory and circulatory physiology in evolutionary hierarchy.</p> <p>Learners would be able to correlate the habit and habitat with respiratory and circulatory structures.</p> <p>Learners would understand the process of control and coordination by nervous and endocrine regulation.</p> <p>Learners would be fascinated by various locomotory structures found in the animal kingdom.</p> <p>Learners would be acquainted with various reproductive strategies present in animals.</p>
	<p>USZO 303 (Course 7)</p>	<p>Amazing animals, Ethology and Conservation biology, Applied Zoology</p>	<p>Learners will become familiar with the enthralling animal world.</p> <p>Learners will appreciate the use of unique abilities of animals in development of technology.</p> <p>Learners would gain an insight into different types of animal behavior and their role</p>

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			<p>in adaptation.</p> <p>Learners would become sensitized to protect and manage biodiversity in a sensible and sustainable manner.</p> <p>Learner will understand the science of vermicomposting and dairy.</p> <p>Learner will appreciate and respect domestic pets through proper care.</p>
	<p>USZO 401 (Course 8)</p>	<p>Comparative Embryology, Aspects of Human Reproduction and Scientific Attitude, Methodology, Writing and Ethics</p>	<p>Learner will be able to understand and compare the different pre- embryonic stages</p> <p>Learner will be able to appreciate the functional aspects of extra embryonic membranes and classify the different types of placentae</p> <p>Learners will able to understand human reproductive Physiology</p> <p>Learners will become familiar with advances in ART and related ethical issues.</p> <p>The learner will develop qualities such as critical thinking and analysis.</p> <p>The learner will develop the skills of scientific communication.</p> <p>Learner will understand the ethical aspects of research</p>
	<p>USZO 402 (Course 9)</p>	<p>Cell Biology, Endo membrane System and</p>	<p>Learner would acquire insight of transport mechanisms for the maintenance and</p>

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		Biomolecules	<p>composition of cell</p> <p>Learner would appreciate the intricacy of endomembrane system.</p> <p>Learner would understand the interlinking of endomembrane system for functioning of cell.</p> <p>The learner will realize the importance of biomolecules and their clinical significance.</p>
	USZO 403 (Course 10)	Holistic Health, Neurological and genetic diseases and Pollution	<p>Learners will apply the knowledge to adopt a healthy life style.</p> <p>The learner will become cognizant about genetic and neurological disorders as well as genetic counseling, its requisites and significance.</p> <p>Learner will be able to relate various anthropogenic activities with environmental degradation and its harmful effects on human health.</p> <p>Learner will become more sensitive towards the environmental issues.</p>
B. Sc. (Third Year)	USZO 501 (Course 11)	Holistic Health, Neurological and genetic diseases and Pollution	<p>Learners will develop conceptual clarity with regard to the anatomy of animals at different levels. Learners shall comprehend the evolutionary perspective of each level of organization.</p> <p>Learners will know the importance of the</p>

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			<p>significance and advantages of each level of organization.</p> <p>Learners will understand that scientific classification of animals is based on certain characteristics they have in common.</p> <p>Learners will be able to recall characteristics features and examples of each phylum. Learners will be familiar with protozoan and helminth parasites.</p> <p>Learners will get an idea of higher groups of invertebrate animal life and their classification.</p> <p>Learners will get an idea of general characteristics and details of invertebrate animal systems.</p>
	<p>USZO 502 (Course 12)</p>	<p>Haematology and Immunology</p>	<p>Learners would be able to realize the fundamental concepts in haematology.</p> <p>Learners will be familiar with different terminologies and diagnostic tests performed in a pathological laboratory. Learners will be better equipped for taking any further pathological course or working in a diagnostic laboratory.</p> <p>Learners would comprehend the types of immunity and the components of immune system. Learners would realize the significant role of</p>

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			<p>immune system in giving resistance against diseases.</p> <p>Learners would understand immune related pathologies. Learners would understand the principle and applications of vaccines.</p> <p>Learners would develop basic understanding of immunology of organ transplantation and cancer treatment.</p>
	<p>USZO 601 (Course 15)</p>	<p>Minor Phyla, Taxonomy and Type Study</p>	<p>Learners will get an idea of basic morphological and physiological details of minor phyla and protochordates. Study of phylogeny will help learners to understand the evolutionary relationships between organisms.</p> <p>Learners will be able to identify classes of fish and amphibians by their anatomical features. Learners will be able to compare and contrast characters of fishes and amphibians. Learners will be able to describe evolutionary trends implied by their classification.</p> <p>Learners will understand that scientific classification of animals is based on certain characteristics they have in common. Learners will be able to recall characteristic features and examples of each class of Reptilia, Aves and Mammalia.</p>

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			<p>Learners will get an idea of vertebrate animal life and its classification.</p>
	<p>USZO 602 (Course 16)</p>	<p>Enzymology, Homeostasis, Histology and General Pathology</p>	<p>Learners must be able to understand basics of enzyme structure and function. Learners must comprehend variations in enzyme activity and kinetics. Learners must appreciate the enzyme assay procedures and the therapeutic application of enzymes.</p> <p>Learners would be able to understand the concept of positive and negative feedback mechanisms. Learners would comprehend the adaptive responses of animals to environmental changes.</p> <p>Learners would appreciate the well planned organization of tissues and cells in the organ systems</p> <p>Learners will gain knowledge of various infective agents and diseases caused by them. Learners will be familiar with various medical terminology pertaining to pathological condition of the body caused due to disease.</p>