BSC - ZOOLOGY			
Semester I/II/III/IV/V/VI	**All Subjects / Course**	**Objective of teaching the subject (Minimum 4)**	**OUTCOMES**
SEMESTER I	**USZO101 :Wonders of Animal World, Biodiversity and its Conservation; USZO102: INSTRUMENTATION and ANIMAL BIOTECHNOLOGY; Practical USZOP1**	1. Curiosity will be ignited in the mind of learners, to knowmore about the fascinating world of animals which would enhance their interest and love for the subject of Zoology.	-
		2. Learners would appreciate treasure of Biodiversity, its importance and hence would contribute their best for its conservation.	
		3. Minds of learners would be impulsed to think differently and would be encouraged ipso facto to their original crude ideas from the field of biological sciences.	
		4. 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.	
SEMESTER II	**USZO 201 : Ecology and Wildlife Management; USZO202: NUTRITION, PUBLIC HEALTH AND HYGIENE; Practical USZOP2**	1. 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.	-
		2. 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.	
		3. Learners would be inspired to choose career options in the field of wild life conservation, research, photography and ecotourism.	
		4.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.	

SEMESTER III	**USZO 301 : Fundamentals of Genetics, Chromosomes and Heredity, Nucleic acids; USZO302: Nutrition and Excretion, Respiration and Circulation, Control and Coordination of Life Processes, Locomotion and Reproduction; USZO303: Ethology, Parasitology, Economic Zoology; Practical USZOP3**	1. Learner would comprehend and apply the principles of inheritance to study heredity. Learner will understand the concept of multiple alleles, linkage and crossing over.	-
		2. To introduce the concepts of physiology of nutrition, excretion and osmoregulation. To expose the learner to various nutritional apparatus, excretory and osmoregulatory structures in different classes of organisms.	
		3. To equip learner with a sound knowledge of how animals interact with one another and their environment. To enable the learner to understand different behavioural patterns.	
		4.To acquaint the learner with the concepts of parasitism and its relationship in the environment. To introduce the learner to modes of transmission of parasites.	
SEMESTER IV	**USZO 401 : Origin and Evolution of Life, Population Genetics and Evolution, Scientific Attitude, Methodology, Scientific Writing and Ethics in Scientific Research USZO 402: Cell Ultrastructure and Biomolecules USZO 403: Comparative Embryology, Aspects of Human Reproduction, Pollution and its effect on organisms; Practical USZOP4**	1. Learner will gain insights into the origin of life. Learner will analyse and critically view the different theories of evolution.	-
		2. Learner would acquire insight into the composition of the transport mechanisms adopted by the cell and its organelles for its maintenance and composition of cell	
		3. Learner will be able to understand and compare the different types of eggs and sperms. Learner will be able to understand and compare the different pre- embryonic stages	
		4.The learners will be sensitized about the adverse effects of pollution and measures to control it.	
SEMESTER V	**USZO 501 : Taxonomy - Invertebrates and Type Study; USZO 502: Haematology and Immunology; USZO503: Histology, Toxicology, Pathology and Biostatistics; USZO504: Anatomy and Developmental Biology; Practical Syllabus for Semester V Course code: USZOP05; Course 11**	1. Learners will apprehend the basis of classification and modern classification up to class of the lower invertebrate animals.	-
		2. The learner shall comprehend basic haematology. The learner will be able to identify various components of haemostatic systems.	
		3.Learner would appreciate the well planned organization of tissues and cells in the organ systems.	
		4.Learner will be able to understand the importance of various types of epidermal and dermal derivatives along with their functions.	

SEMESTER VI	**USZO 601 : Taxonomy - Chordates and Type Study; USZO 602: Physiology and Tissue Culture; USZO603: Genetics and Bioinformatics; USZO 604: Environmental Biology and Zoopharmacognosy; Practical Syllabus for Semester VI Course code: USZOP06: COURSE 15**	1. Learners will get an idea of origin of Chordates, its taxonomy up to class with reference to phylogeny and their special features.	-
		2. The learner shall understand fundamentals of enzyme structure, action and kinetics. The learner shall appreciate the enzyme assay procedures and the therapeutic applications of enzymes.	
		3. Learner shall get an insight into the intricacies of chemical and molecular processes that affect genetic material. The course shall prepare learner to recognize the significance of molecular biology as a basis for the study of other areas of biology and biochemistry. Learner shall also understand related areas in relatively new fields of genetic engineering and biotechnology.	
		4. Learner will understand the different factors affecting environment, its impact and environment management laws.	