COURSE OUTCOME
First Degree Programme in Zoology
B.Sc.Zoology

Course Code L/P Credits	Course Name	Course Outcomes	
Semester 1			
ZO1141 **Credits: 3**	**Animal Diversity I**	**CO1**	Understand the diversity of invertebrates
		CO2	Classify the invertebrates into appropriate systematicpositions
		CO3	Identify the economic importance of invertebrates
ZO1131 **Credits: 2**	**Animal Diversity I**	**CO1**	Understand the diversity of invertebrates
		CO2	Classify the invertebrates into appropriate systematicpositions
		CO3	Identify the economic importance of invertebrates
Semester 2			
ZO1241 **Credits: 3**	**Animal Diversity II**	**CO1**	Understand the diversity of vertebrates
		CO2	Classify the vertebrates into appropriate systematicpositions
		CO3	Identify the economic importance of vertebrates
		CO4	Correlate the evolutionary history of vertebrates
ZO1231 **Credits: 2**	**Animal Diversity II**	**CO1**	Understand the diversity of vertebrates
		CO2	Classify the vertebrates into appropriate systematicpositions
		CO3	Identify the economic importance of vertebrates
		CO4	Correlate the evolutionary history of vertebrates

Semester 3			
ZO1341 **Credits: 3**	**Experimental Zoology, Instrumentation, Biostatistics and Bioinformatics**	**CO1**	Understand the opportunities of a Zoologist
		CO2	Apply scientific methods in experiments
		CO3	Analyze experiments with biostatistics
		CO4	Apply computational procedure in experiments
ZO1331 **Credits: 3**	**Functional Zoology**	**CO1**	Understand functioning of the human body
		CO2	Identify the precautionary measures to safeguardhealth
		CO3	Identify deficiency and imbalance disorders in thebody
		CO4	Identify the optimum lifestyle to war off the diseases
Semester 4			
ZO1441 **Credits: 3**	**Ecology,Habitat Destruction & Disaster Management**	**CO1**	Understand the role and functioning of ecosystems
		CO2	Identify the anthropogenic pressures on ecosystemand their impacts
		CO3	Identify disasters and their prevention and mitigationmeasures
		CO4	Apply the remedial measures for the impact ofanthropogenic pressures on ecosystems.
ZO1431 **Credits: 3**	**Applied Zoology**	**CO1**	Understand the basic principles of aquaculture,sericulture and livestock management
		CO2	Understand the human genomics and reproductivebiology
		CO3	Identify genetic and developmental disorders
		CO4	Identify the possibilities of self employment

Semester 5			
ZO1541 **Credits: 4**	**Cell and Molecular Biology**	**CO1**	Understand the fundamental structure, function, andbiochemistry of the cell
		CO2	Understand the principles of molecular biology andgene manipulation
		CO3	Understand the mechanism of gene expression andgene regulation
		CO4	Understand the mechanism of genetic diseases andageing
ZO1542 **Credits: 4**	**Genetics and Biotechnology**	**CO1**	Understand the mechanism, principles, techniquesand applications of Genetics and Biotechnology
		CO2	Understand the relationship between heredity andvariation
		CO3	Identify different genetic syndromes and practicepossible ways to reduce its occurrence
		CO4	Apply the genetic principles and biotechnological toolsfor the welfare of mankind
ZO1543 **Credits: 4**	**Immunology and Microbiology**	**CO1**	Understand the principles and mechanisms ofimmunology
		CO2	Understand the scope and importance of clinicalimmunology
		CO3	Identify the immune disorders
		CO4	Understand the nature, effects and application ofmicroorganisms
ZO1442 **P** **Credits: 4**	**Practica II– Instrumentation, Animal Diversity I and Animal Diversity II**	**CO1**	Understand the morphology of organisms
		CO2	Understand the anatomy and organ system of organisms
		CO3	Understand the economically important species
		CO4	Understand the mechanisms and principles of instruments used in Zoology

ZO1551.1 **Credits: 2**	**Public Health and Hygiene**	**CO1**	Understand the importance of public health, hygiene,balanced diet and nutritional disorders
		CO2	Identify the food adulteration
		CO3	Understand the causes and manifestation of physicaland mental diseases
		CO4	Apply the preventive and therapeutic measures forphysical and mental diseases
ZO1432 **Credits: 0:0:4**	**Practical I - Animal Diversity I & II, Functional Zoology and Applied Zoology**	**CO1**	Understand the morphology and anatomy of organisms
		CO2	Understand the economically important species.
		CO3	Identify the types of blood cells and blood groups
		CO4	Apply the biochemical and genetic principles in identifying disorders
Semester 6			
ZO1641 **Credits: 4**	**Physiology and Biochemistry**	**CO1**	Understand the correlation and coordination between the structure and function of different organs and organ systems of the body
		CO2	Understand the possible causes of abnormalphysiology and the resultant diseases
		CO3	Understand the structure and functions of biomolecules and their role in metabolism
		CO4	Manipulate the lifestyle so as to minimize the occurrence of malfunctioning and deficiency disorders
ZO1642 **Credits: 4**	**Developmental Biology and Experimental**	**CO1**	Understand the embryological development of organisms
		CO2	Understand the causes and apply the control measures of congenital malformations

	Embryology	**CO3**	Understand the techniques and procedures of experimental embryology
		CO4	Apply the experimental embryology for therapeuticmeans
ZO1643 **Credits: 3**	**Ethology, Evolutionand Zoogeography**	**CO1**	Understand the behaviour and communication ofanimals
		CO2	Understand the concept of organic evolution
		CO3	Understand the evolutionary history of organisms
		CO4	Understand the distribution of animals in the biosphereand zoogeographical realms
ZO1651.1 **Credits: 2**	**Economic Zoology – Vermicult ure andApiculture**	**CO1**	Understand basic procedure and methodology ofvermiculture
		CO2	Understand the scope and methodology of apiculture
		CO3	Apply the pest and disease control in vermiculture andapiculture
		CO4	Practice self employment and self reliance
ZO1644 **Credits: 0:0:4**	**Practical II - CellBiology, Genetics, Bioinfor matics Biotechn ology, Immunol ogy and Microbiology**	**CO1**	Identify different cells and bacteria
		CO2	Identify stages in cell division and structure of geneticmaterials
		CO3	Identify genetic syndromes
		CO4	Experiment on enumeration blood cells and typing ofblood
ZO1645	**Practical III - Physiology**	**CO1**	Apply clinical procedures for blood & urine analysis

P **Credits: 0:0:3**	**and Biological Chemistry, Molecular Biology and Biostatistics**	**CO2**	Practice isolation and estimation of proteins
		CO3	Experiment of physiological activity of organisms
		CO4	Apply statistical methods to analyze data
ZO1646 **P** **Credits: 0:0:3**	**Practical IV - Develop mental Biology, Ecology, Ethology, Evolutionand Zoogeography**	**CO1**	Identify developmental stages of organisms
		CO2	Estimate the qualitative and quantitative parameters ofwater sample
		CO3	Understand the ecological and evolutionary interrelationship and adaptations of organisms
		CO4	Understand the mechanism of lure trap in pestmanagement
ZO1647 **Credits: 0:0:4**	**Zoology Project and Fieldstudy**	**CO1**	Identify appropriate research topic and presentation
		CO2	Practice research with scientific temper
		CO3	Observe the procedure and application of experimentsat research institute
		CO4	Observe the ecosystems and interrelationship of organism with environment