



MANGALDAI COLLEGE, DARRANG, ASSAM

COURSE OUTCOME

DEPARTMENT OF ZOOLOGY

Course Outcomes (CO):

SL. NO.	SEMESTER	PAPER CODE & TITLE	COURSE OUTCOMES	UNIT /CHAPTER	BLOOM'S TAXONOMIC LEVELS
1	I	ZOO-HC-1016 NonCordates-1	Students are able to understand about the characters and classification and life cycle of various Protista, Porifera, Cnideria, Ctinophora, Platyhelminthes and Nemathelminthes	1, 2, 3, 4, 5, 6	Remembering, Understanding
2		ZOO-HC-1016 NonCordates-1(Practical)	Student can understand and learned how to prepare whole mount, life cycle of various organism included under above mentioned kingdoms and phyla.	1,2,3,4,5,6,7,8	Understanding, Analyzing, Applying
3		ZOO-HC-1026 Principle of Ecology	Students are able to understand about the basic principle with special reference to population community and ecosystem. At the same time in applied ecological part student will aware with the process of wild life conservation and management.	1,2,3,4 5	Remembering, Understanding Remembering, Understanding, Analyzing
4		ZOO-HC-1026 Principle of Ecology (Practical)	Through the practical study Students will come to know about the practical use of various population characteristics, community and ecosystem services. Visit to National Park/ Biodiversity Park/ wildlife sanctuaries will give them live study of ecology.	1,2,3 4	Understanding, Analyzing, Applying Understanding, Analyzing

5	II	ZOO-HC-2016 Non-Chordates II: Coelomates	Students are able to understand about the characters and classification, social life and evolutionary significance of Coelomates.	1,2,3,4,5,6	Remembering and Understanding
6		ZOO-HC-2016 Non-Chordates II: Coelomates (Practical)	Students are able to understand about the museum specimen, anatomical and	1,2,3,4, 5	Understanding, Analyzing, Applying
7		ZOO-HC-2026 Cell Biology	Students are able to understand about the structure and function of cell and cellular organelles, process of cell division and cell communication.	1,2,3,4,5,6 7,8	Understanding, Remembering Understanding, Analyzing
8		ZOO-HC-2026 Cell Biology (Practical)	Students are able to understand about the pre parathion of various stains and fixatives, determination of protein, mucopolysaccharides and chromosome.	1,2,3,4	Understanding, Analyzing, Applying
9	III	ZOO-HC-3016 Diversity of Chordata	Students are able to understand about the general characteristics, classification, metamorphosis and animal distribution.	1,2,3,4,5,6,7,8,9,10	Understanding, Remembering
		ZOO-HC-3016 Diversity of Chordata (Practical)	Students are able to understand about the general characteristics, classification, metamorphosis and animal distribution.	1,2,3,4,5,6,7	Understanding, Analyzing, Applying
		ZOO-HC-3026 Animal Physiology: Controlling and Co- ordinating Systems	Students are able to understand the entire animal functions of the body which includes nutrition. Respiration, heart, excretion, nerve physiology etc. in which all structure, function, process and control.	1,2,3,4,5,6	Understanding, Analyzing
10		ZOO-HC-3026 Animal Physiology: Controlling and Co-ordinating Systems (Practical)	Students are able to understand and learned about the various microscopic procedures including microtomy, permanent slides study.	1,2,3,4	Analyzing, Applying

11	III	ZOO-HC-3036 Fundamentals of Biochemistry	Students are able to understand all the biochemical components of the body system are studied. It helps the student to get a view about the chemical compositions of different chemical compounds such as enzymes, hormones and other secretions. It also includes the pathways and chemical which are responsible for The energy production in our body.	1,2,3,4,5	Understanding, Analyzing, Applying
12		ZOO-HC-3036 Fundamentals of Biochemistry (Practical)	Students are able to understand and learned various technique of separation and determination of protein, lipid, carbohydrates etc.	1,2,3,4,5	Analyzing, Applying
13	IV	ZOO-HC-4016 Comparative Anatomy of Vertebrates	Students are able to understand about the comparative structures of heart, aotic arches, kidney, balancing organ, hearing organ, thyroid, respiratory organs, brain of different animals which give them a definite idea not only the structure but also the structural development of that organ and how they become modified according to the need and environment.	1,2,3,4,5,6,7,8	Remembering, Understanding, Analyzing
14		ZOO-HC-4016 Comparative Anatomy of Vertebrates (Practical)	Students are able to understand and learned various skeletal parts of different organisms and their structural component.	1,2,3,4,5, 6	Understanding, analyzing, Applying, Analyzing, Applying
15		ZOO-HC-4026 Animal Physiology: Life Sustaining Systems	The entire animal functions of the body are studied in this part. It includes nutrition, Respiration, heart, excretion, nerve physiology etc. in which all structure, function, process and control.	1,2,3,4,5	Understanding, Analyzing, Applying

16	IV	ZOO-HC-4026 Animal Physiology: Life Sustaining Systems (Practical)	Students will be able to learn to determine the blood group, haemoglobin content, enumerate the RBC and WBC count and able to measure the blood pressure. Moreover, they will be able to examine the histological slides of different organ of mammalian tissues.	1,2,3,4,5,6	Analyzing, Applying
17		ZOO-HC-4036 Animal Physiology: Biochemistry of Metabolic Processes	Students are able to understand metabolic process including carbohydrates, lipid and protein and also ATP production.	1,2,3,4,5	Analyzing, Understanding
18		ZOO-HC-4036 Animal Physiology: Biochemistry of Metabolic Processes (Practical)	Students are able to learn various essays from serum and tissues.	1,2,3,4,5	Analyzing, Applying
19	V	ZOO-HC-5016 Molecular Biology	Students are able to understand in details about the nucleic acid, DNA replication, Protein synthesis and its modification and gene regulation.	1,2,3,4,5,6,7,8	Understanding, Analyzing
20		ZOO-HC-5016 Molecular Biology (Practical)	Students are able to understand about the estimation of DNA, RNA and protein synthesis.	1,2,3,4,5,6	Analyzing, Applying
21		ZOO-HC-5026 Principles of Genetics	Students are able to understand about the Mendelian inheritance, interaction of genes, mutation and its effects.	1,2,3,4,5,6,7,8	Understanding, Analyzing

22	V	ZOO-HC-5026 Principles of Genetics (Practical)	Students are able to learn about the pedigree analysis, gene interaction study.	1,2,3,4,5,6	Analyzing, Applying
23		ZOO-HE-5016 Computational Biology and Biostatics	Students are able to learn different tools used in bioinformatics and their practical usage	1,2,3,4,5,6	Understanding, Analyzing
24		ZOO-HE-5016 Computational Biology and Biostatics (Practical)	Students will have a practical hand on experience on retrieval of sequences from the databases, construction of phylogenetic tree, prediction of protein structure, performing statistical test.	1,2,3,4,5,6	Analyzing, Applying
25		ZOO-HE-5036 Endocrinology	Students are able to learn different endocrine glands, their function and secretion, diseases related to endocrine gland, hormonal regulation etc.	1,2,3,4	Understanding, Analyzing
26		ZOO-HE-5036 Endocrinology (Practical)	Students are able to identify different endocrine gland through permanent slide study.	1,2,3,4	Analyzing, Applying
27	VI	ZOO-HC-6016 Developmental Biology	Students are able to acquire a thorough knowledge of embryonic development along with the factors affecting it.	1,2,3,4,5	Understanding, Analyzing
28		ZOO-HC-6016 Developmental Biology (Practical)	Students will be able to learn different developmental stages through microscopic study of permanent slides and also from culture-based study of certain animals.	1,2,3,4,5	Analyzing, Applying
29		ZOO-HC-6026 Evolutionary Biology	Students are able to learn different concept of evolution, fossils, process of speciation and population genetics	1,2,3,4,5,6,7,8,9	Understanding, Remembering, Analyzing

29	VI	ZOO-HC-6026 Evolutionary Biology	Students are able to learn different concept of evolution, fossils, process of speciation and population genetics	1,2,3,4,5,6,7,8,9	Understanding, Remembering, Analyzing
29		ZOO-HC-6026 Evolutionary Biology (Practical)	Students are able to learn different types of fossils, application of Hardy-Weinberg principle and construction of phylogenetic tree.	1,2,3,4,5	Analyzing, Applying
30		ZOO-HE-6016 Biology of Insecta	Students are able to learn general features of insects their classification, physiology, insect society their importance, insect plant interaction etc.	1,2,3,4,5,6	Understanding, Remembering
31		ZOO-HE-6016 Biology of Insecta (Practical)	Students are able to identify different kinds antennae, legs, mouthparts, wings and their preservation, collection etc.	1,2,3,4,5,6,7,8,9	Understanding, Analyzing
32		ZOO-HE-6056 Dissertation	Acquire practical knowledge and get the hands-on practice in the various Biological science. This will help the students to pursue research further in their desired field.		Applying, Analyzing