

**COURSE  
STRUCTURE  
M.Sc. Course in  
Zoology (DODL)  
(Four Semester course)**

*(With effect from the session 2021–2022)*

[CHOICE BASED CREDIT SYSTEM]

## CHOICE BASED CREDIT SYSTEM (CBCS)

Department of Zoology (DODL) University of Kalyani

Effective from 2021-2022 Session

### Semester wise Details of M.Sc. (Zoology)

#### SEMESTER-I

Course Name	Paper	Points	Credit	
<b>Theory (Core)</b>				
ZCORT-101	Non-Chordate Biology and Insect Organization	75	6	
ZCORT-102	Parasitology, Ecology, Environment and Wildlife Biology	75	6	
ZCORT-103	Developmental Biology and Cytogenetics	75	6	
ZCORT-104	Animal Physiology, Biochemistry and Metabolic Processes	75	6	
<b>Theory (Ability Enhancement compulsory course)</b>				
ZAECCT-101	Basic principles of methods used in animal biology	25	2	
<b>Practical (Core)</b>				
ZCORL-101	Non-Chordate Biology and Insect Organization	25	2	
ZCORL-102	Parasitology, Ecology, Environment and Wildlife Biology	25	2	
ZCORL-103	Developmental Biology and Cytogenetics	25	2	
ZCORL-104	Animal Physiology and Biochemistry and Metabolic Processes	25	2	
Library/Field Work/ Class Test				
Total points & Credits in Semester I		425	34	

#### SEMESTER-II

Course Name	Paper	Points	Credit	
<b>Theory (Core)</b>				
ZCORT-205	Chordate Biology, Biosystematics and Taxonomy	75	6	
ZCORT-206	Advanced Parasitology, Vector Biology and Fish Biology	75	6	

ZCORT-207	Immunobiology, Human Genetics & Biostatistics	75	6	
<b>Theory (Generic Elective)</b>				
ZGECT-201	Applied Zoology (For students other than Department of Zoology)	50	4	
<b>Practical (Core)</b>				
ZCORL-205	Chordate Biology, Biosystematics and Taxonomy	25	2	
ZCORL-206	Advanced Parasitology, Vector Biology and Fish Biology	25	2	
ZCORL-207	Immunobiology, Human Genetics & Biostatistics	25	2	
Library/Field Work/Class Test				
Total points & Credits in Semester-II		350	28	

### SEMESTER-III

Course Name	Paper	Points	Credit	
<b>Theory (Core)</b>				
ZCORT-309	Arthropod of Economic Importance, Concept of Biodiversity and Evolution	75	6	
ZCORT-310	Environmental Toxicology and Endocrinology	75	6	
<b>Theory (Discipline Specific Elective - Minor) (any two)</b>				
ZDSE(MN)T-303	Human Molecular Genetics	25	2	
ZDSE(MN)T-306	Reproductive Biotechnology	25	2	
<b>Theory (Discipline Specific Elective - Major) (any one)</b>				
ZDSE(MJ)T-301	Cytogenetics & Mol. Biology, Cell & Dev. Biology	50	4	
ZDSE(MJ)T-302	Cytogenetics & Mol. Biology, Cell & Dev. Biology	50	4	

<b>Theory (Skill Enhancement Course)</b>				
ZSECT-301	Industrial/Economic Zoology	25	2	
<b>Practical (Core)</b>				
ZCORL-309	Arthropod of Economic Importance, Concept of Biodiversity and Evolution	25	2	
ZCORL-310	Environmental Toxicology and Endocrinology	25	2	
<b>Practical (Discipline Specific Elective - Major)</b>				
ZDSE(MJ)L-301	Discipline Specific Elective - Major (Lab)	50	4	
Total points & Credits in Semester III		425	34	

#### SEMESTER-IV

<b>Course Name</b>	<b>Paper</b>	<b>Points</b>	<b>Credit</b>	
<b>Theory (Core)</b>				
ZCORT-411	Animal Behaviour and Microbiology	75	6	
ZCORT-412	Molecular Biology, Biotechnology, Tools and Technique	75	6	
<b>Theory (Discipline Specific Elective - Minor) (any two)</b>				
ZDSE(MN)T-409	Medical Embryology	25	2	
ZDSE(MN)T-412	Parasites and Diseases	25	2	
<b>Theory (Discipline Specific Elective - Major) (any one)</b>				
ZDSE(MJ)T-403	Cytogenetics & Mol. Biology, Cell & Dev. Biology	50	4	
ZDSE(MJ)T-404	Cytogenetics & Mol. Biology, Cell & Dev. Biology	50	4	
<b>Practical (Core)</b>				
ZCORL-411	Animal Behaviour and Microbiology	25	2	

ZCORL-412	Molecular Biology, Biotechnology, Tools and Technique	25	2	
<b>Practical (Discipline Specific Elective - Major)</b>				
ZDSE(MJ)L-402	Discipline Specific Elective - Major (Lab)	50	4	
<b>Project/ Dissertation</b>				
ZDSEP-402	Project/ Review work/ Dissertation	100	8	
Total points & Credits in Semester IV		500	40	

**Abbreviations used in the syllabus:**

ZCORT	–	Zoology Core Course Theory
ZCORL	–	Zoology Core Course Lab
ZAECCT	–	Zoology Ability Enhancement Compulsory Course Theory
ZGECT	–	Zoology Generic Elective Course Theory
ZDSE(MN)T	–	Zoology Discipline Specific Elective (Minor) Theory
ZDSE(MJ)T	–	Zoology Discipline Specific Elective (Major) Theory
ZDSE(MJ)L	–	Zoology Discipline Specific Elective (Major) Lab
ZDSEP	–	Zoology Discipline Specific Project