

**DEPARTMENT OF ZOOLOGY
A.M.U., ALIGARH**

Course Codes: M.Sc. (Zoology) Under CBCS System

M.Sc. Zoology I Semester (CBCS)

Paper	Paper Code	Title	Credits
1.	ZYM-1001	Biosystematics and Taxonomy	4
2.	ZYM-1002	Animal Ecology	4
3.	ZYM-1003	Endocrinology	4
4.	ZYM-1004	Gamete Biology	2
5.	ZYM-1005	Essentials of Biological Chemistry	2
6.	ZYM-1071	Lab-I: (ZYM-1001, ZYM-1002)	4
7.	ZYM-1072	Lab-II: (ZYM-1003, ZYM-1004, ZYM-1005)	4

M.Sc. Zoology II Semester (CBCS)

Paper	Paper Code	Title	Credits
1.	ZYM-2001	Molecular Biology	4
2.	ZYM-2002	Cell Biology	2
3.	ZYM-2003	Reproductive Technology	2
4.	ZYM-2004	Environmental Toxicology	4
5.	ZYM-2005	Vertebrate Immune System	4
6.	ZYM-2071	Lab-I: (ZYM-2001, ZYM-2002, ZYM-2003)	4
7.	ZYM-2072	Lab-II: (ZYM-2004, ZYM-2005)	4

Course Codes M.Sc. (Zoology) III Semester (CBCS):

S. No.	Paper Code	Title	Credits
1.	ZYM-3001	Pest, Parasite & Vector	4
2.	ZYM-3002	Aquaculture	2
3.	ZYM-3091	Open Elective (Recent Trends in Zoology)*	4
4.	ZYM-3071	Lab-I (ZYM-3001, ZYM-3002)	4
(Entomology)			
5.	ZYM-3011	Paper I: Insect Morphology & Physiology	2
6.	ZYM-3012	Paper II: Insect Systematics and Taxonomy	2
7.	ZYM-3013	Paper III: Insect Ecology & Behaviour	2
8.	ZYM-3072	Lab-II (ZYM-3011, 3012, 3013)	4
(Fisheries)			
9.	ZYM-3021	Paper I: Fish Biology	2
10.	ZYM-3022	Paper II: Fish Physiology	2
11.	ZYM-3023	Paper III: Limnology and Oceanography	2
12.	ZYM-3073	Lab-II (ZYM-3021, 3022, 3023)	4
(Genetics)			
13.	ZYM-3031	Paper I: Population and Statistical Genetics	2
14.	ZYM-3032	Paper II: Microbial Genetics	2
15.	ZYM-3033	Paper III: Genomics and Proteomics	2
16.	ZYM-3074	Lab-II (ZYM-3031, 3032, 3033)	4
(Nematology)			
17.	ZYM-3041	Paper I: Nematode Structure	2
18.	ZYM-3042	Paper II: Nematode Diversity-I	2
19.	ZYM-3043	Paper III: Nematode Ecology	2
20.	ZYM3075	Lab-II (ZYM-3041, 3042, 3043)	4
(Parasitology)			
21.	ZYM-3051	Paper I: Medical and Veterinary Protozoology	2
22.	ZYM-3052	Paper II: Medical and Veterinary Entomology and Vector Control	2
23.	ZYM-3054	Paper III: Principles of Parasitology, Immunology and <i>In Vitro</i> Culture	2
24.	ZYM-3076	Lab-II (ZYM-3051, 3052, 3054)	4

*** For students other than Zoology**

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Course Codes M.Sc. (Zoology) IV Semester (CBCS):

S. No.	Paper Code	Title	Credits
1.	ZYM-4001	Elements of Biotechnology	2
2.	ZYM-4002	Biological Models	2
3.	ZYM-4071	Lab-I (ZYM-4001, 4002)	2
(Entomology)			
4.	ZYM-4011	Paper I: Economic Entomology	2
5.	ZYM-4012	Paper II: Insect Toxicology and Pest Control	2
6.	ZYM-4013	Paper III: Insect Embryology and Pathology	2
7.	ZYM-4072	Lab-II (ZYM-4011, 4012, 4013)	4
8.	ZYM-4081	Field Work	2
9.	ZYM-4086	Seminar	2
10.	ZYM-4091	Project	4
(Fisheries)			
11.	ZYM-4021	Paper I: Ichthyology and Fish Diseases	2
12.	ZYM-4022	Paper II: Fish nutrition and Feed Technology	2
13.	ZYM-4023	Paper III: Fish Processing Technology	2
14.	ZYM-4073	Lab-II (ZYM-4021, 4022, 4023)	4
15.	ZYM-4082	Field Work	2
16.	ZYM-4087	Seminar	2
17.	ZYM-4092	Project	4
(Genetics)			
18.	ZYM-4031	Paper I: Human and Clinical Genetics	2
19.	ZYM-4032	Paper II: Developmental Genetics	2
20.	ZYM-4033	Paper III: Molecular Mutagenesis	2
21.	ZYM-4074	Lab-II (ZYM-4031, 4032, 4033)	4
22.	ZYM-4083	Field Work	2
23.	ZYM-4088	Seminar	2
24.	ZYM-4093	Project	4
(Nematology)			
25.	ZYM-4041	Paper I: Nematode Diversity-II	2
26.	ZYM-4042	Paper II: Nematode Biology, Diseases And Management	2
27.	ZYM-4043	Paper III: Behaviour and Physiology of Nematodes	2
28.	ZYM-4075	Lab-II (ZYM-4041, 4042, 4043)	4
29.	ZYM-4084	Field Work	2
30.	ZYM-4089	Seminar	2
31.	ZYM-4094	Project	4
(Parasitology)			
32.	ZYM-4051	Paper I: Medical and Veterinary Helminthology	2
33.	ZYM-4052	Paper II: Medical and Veterinary Nematology	2
34.	ZYM-4054	Paper III: Parasite Physiology, Biochemistry, Molecular Biology and Bio-informatics	2
35.	ZYM-4076	Lab-II (ZYM-4051, 4052, 4054)	4
36.	ZYM-4085	Field Work	2
37.	ZYM-4090	Seminar	2
38.	ZYM-4095	Project	4