

M.Sc. Zoology
Department of Zoology
Faculty of Life Sciences,
PDM University

PROGRAMME STRUCTURE

	Module Code	Module Type	Module Name	Marks			Credits
				Internal	External	Total	
1st Sem	ZOOL5101	Core I	Genetics and Cytogenetics	50	100	150	4
	ZOOL5102	Core I (P)	Genetics and Cytogenetics Lab	25	50	75	2
	ZOOL5103	Core II	Principles of Gene Manipulation	50	100	150	4
	ZOOL5104	Core II (P)	Principles of Gene Manipulation Lab	25	50	75	2
	ZOOL5105	Core III	Comparative Animal Physiology	50	100	150	4
	ZOOL5106	Core III (P)	Comparative Animal Physiology Lab	25	50	75	2
	ZOOL5107	Core IV	Metabolism: Concepts and Regulation	50	100	150	4
	ZOOL5108	Core IV (P)	Metabolism: Concepts and Regulation Lab	25	50	75	2
				Total	300	600	900
2nd Sem	ZOOL5109	Core V	Developmental Biology	50	100	150	4
	ZOOL5110	Core V (P)	Developmental Biology Lab	25	50	75	2
	ZOOL5111	Core VI	Systematics, Biodiversity and Evolution	50	100	150	4
	ZOOL5112	Core VI (P)	Systematics, Biodiversity and Evolution Lab	25	50	75	2
	ZOOL5113	Core VII	Immunology	50	100	150	4
	ZOOL5114	Core VII (P)	Immunology Lab	25	50	75	2
	ZOOL5115	Core VIII	Molecular Cell Biology	50	100	150	4
	ZOOL5116	Core VIII (P)	Molecular Cell Biology Lab	25	50	75	2
				Total	300	600	900
3rd Sem	ZOOL6101	Core IX	Principles of Ecology	50	100	150	4
	ZOOL6102	Core IX (P)	Principles of Ecology Lab	25	50	75	2
	ZOOL6103	Core X	Computational Biology, Biostatistics and Bioinformatics	50	100	150	4
	ZOOL6104	Core X (P)	Computational Biology, Biostatistics and Bioinformatics Lab	25	50	75	2
	ZOOL6201/ ZOOL6203/ ZOOL6205	Elective I	Elective-I	50	100	150	4
	ZOOL6202/ ZOOL6204/ ZOOL6206	Elective I (P)	Elective-I Lab	25	50	75	2
	ZOOL6207/	Elective II	Elective-II	50	100	150	4

	ZOOL6209/ ZOOL6211						
	ZOOL6208/ ZOOL6210/ ZOOL6212	Elective II (P)	Elective-II Lab	25	50	75	2
			Total	300	600	900	24
4th Sem	ZOOL6213/ ZOOL6215/ ZOOL6217/ ZOOL6219	Elective III	Elective-III	50	100	150	4
	ZOOL6214/ ZOOL6216/ ZOOL6218/ ZOOL6220	Elective IV	Elective-IV	50	100	150	4
	ZOOL6221	Core	Dissertation (Experimental, Presentation and Viva-Voce)	400	400	800	16
			Total	500	600	1100	24
			Grand Total after four semesters	1400	2400	3800	96

*Elective III and Elective IV will be from the same stream

List of Elective Courses in 3rd Semester:

Group A Elective I

1. ZOOL6201 Biology of Parasitism
2. ZOOL6203 Chronobiology
3. ZOOL6205 Protein Structure,
function and Evolution

Group B Elective II

1. ZOOL6207 Structure and function of gene
2. ZOOL6209 Animal Behaviour
3. ZOOL6211 Comparative Endocrine Physiology

List of Elective Courses in 4th Semester:

Student will select anyone of the four streams, each stream consisting of two papers

Stream 1

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|---|-----------|--|
| 1 | ZOOL 6213 | Entomology
Insect Diversity, Society and Evolution |
| 2 | ZOOL 6214 | Insect Toxicology and Ecology |

Stream 2

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| 1 | ZOOL6215 | Fish Biology
Diversity and Behaviour of Fishes |
| 2 | ZOOL6216 | Aquatic Resources and their Conservation |

Stream 3

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| 1 | ZOOL6217 | Genome and Evolution
Genomics |
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2 ZOOL6218 Microbiome

Stream 4

**Molecular Endocrinology and
Reproduction**

1 ZOOL6219 Neuroendocrinology

2 ZOOL6220 Biology of Pregnancy, Parturition and
Lactation

Dissertation is compulsory for all the students in the IV Semester