

MASTER OF SCIENCE IN ZOOLOGY

Programme Code: ZLM

Duration: 2 Years

Teaching & Evaluation Scheme of Examination

FROM SESSION: 2019-2020 Onwards



Faculty of Science

**CHHATRAPATI SHIVAJI MAHARAJ
UNIVERSITY PANVEL, NAVI MUMBAI**

Semester-I

Course Code	Course Name	L	T	P	IA	UE	Total Marks	Credits
ZOMC101	Structure and Function of Invertebrates	4	0	0	30	70	100	4
ZOMC102	General Physiology	4	0	0	30	70	100	4
ZOMC103	Cell Biology and Genetics	4	0	0	30	70	100	4
ZOMC104	Advanced Reproductive Biology	4	0	0	30	70	100	4
ZOMC191	Structure and Function of Invertebrates lab	0	0	4	15	35	50	2
ZOMC192	General Physiology lab	0	0	4	15	35	50	2
ZOMC193	Cell Biology and Genetics lab	0	0	4	15	35	50	2
ZOMC194	Advanced Reproductive Biology lab	0	0	4	15	35	50	2
	Total	16	0	16	180	420	600	24

Semester-II

Course Code	Course Name	L	T	P	IA	UE	Total Marks	Credits
ZOMC201	Structure and Function of Vertebrates	4	0	0	30	70	100	4
ZOMC202	Comparative Endocrinology	4	0	0	30	70	100	4
ZOMC203	Molecular Biology and Biotechnology	4	0	0	30	70	100	4
ZOMC204	Advanced Developmental Biology	4	0	0	30	70	100	4
ZOMC291	Structure and Function of Vertebrates lab	0	0	4	15	35	50	2
ZOMC292	Comparative Endocrinology lab	0	0	4	15	35	50	2
ZOMC293	Molecular Biology and Biotechnology lab	0	0	4	15	35	50	2
ZOMC294	Advanced Developmental Biology lab	0	0	4	15	35	50	2
	Total	16	0	16	180	420	600	24

Semester - III

Course Code	Course Name	L	T	P	IA	UE	Marks	Credits
ZOMC301	Parasitology and Immunology	4	-	-	30	70	100	4
ZOMC302	Cell Biology	4	-	-	30	70	100	4
ZOME303	Elective - I	4	-	-	30	70	100	4
ZOMS304	Special Paper – I	4	-	-	30	70	100	4
ZOMC391	Parasitology and Immunology lab			2	15	35	50	2
ZOMC392	Cell Biology lab			2	15	35	50	2
ZOME393	Elective - I lab			2	15	35	50	2
ZOME394	Special Paper – I lab			2	15	35	50	2
	Total	16	0	08	180	320	600	24

Semester-IV

Course Code	Course Name	L	T	P	IA	UE	Marks	Credits
ZOMC401	Genomics and Proteomics	4	-	-	30	70	100	4
ZOME402	Elective – II	4	-	-	30	70	100	4
ZOMS403	Special Paper – II	4	-	-	30	70	100	4
ZOMC484	Project	8	-	-	40	140	200	8
ZOMC491	Genomicsand Proteomics lab			2	15	35	50	2
ZOMS493	Special Paper – II lab			2	15	35	50	2
	Total	20	0	4	180	320	600	24

Total Marks: 2400

Total Credit: 96

List of Elective and Special Papers:

Semester	Course Code (T+P)	Course Name	(L-T-P)	Credits
Elective Papers				
III	ZOME301	Entomology	4-0-4	6
III	ZOME302	Fish and Fisheries	4-0-4	6
III	ZOME303	MRP	4-0-4	6
III	ZOME304	Aquaculture	4-0-4	6
IV	ZOME401	Sericulture	4-0-4	6
IV	ZOME402	Fresh water Zoology	4-0-4	6
IV	ZOME403	Horticulture	4-0-4	6
IV	ZOME404	Vermiculture	4-0-4	6
Special Papers				
III	ZOMS301+ZOMS 391	IPR & Biosafety	4-0-4	6
III	ZOMS302+ZOMS	Bioprocess & Fermentation technology	4-0-4	6
III	ZOMS303+ZOMS	Research and communication	4-0-4	6
III	ZOMS304+ZOMS	Pharmacogenomics	4-0-4	6
IV	ZOMS401+ZOMS	Biotech entrepreneurship	4-0-4	6
IV	ZOMS402+ZOMS 492	Agriculture Biotechnology	4-0-4	6
IV	ZOMS403+ZOMS	Animal Physiology	4-0-4	6
IV	ZOMS404+ZOMS	Elementary Zoology	4-0-4	6

NOTE: Students have to choose two elective subjects for Semesters III, one from each group Elective I and Special Paper-I. In Semester-IV, the students have to choose two elective subjects, one from each group Elective-II and Special Paper-II. The Special Paper course must be chose in continuation to the course chosen in the previous semester. This choice-based system shall facilitate in development of specialized expertise in thrust areas of Zoology. Departmental committee will approve the topic of the project selected by students.