

Serial Number 19

**SYLLABUS FOR
M.Sc. COURSE IN ZOOLOGY
(With effect from Session 2020 – 2022)
[CHOICE BASED CREDIT SYSTEM]**



**DEPARTMENT OF ZOOLOGY
THE UNIVERSITY OF BURDWAN
BURDWAN, WEST BENGAL 713104
INDIA**

Semester III [Credits - 24]

Course code	Type	T/P	Name	Lect. Hr /week	Dur. of Exam (in hr)	Marks			Credit
						I.A.	E.T.	Total	
MSZO 301	Core	T	Biochemistry and Toxicology	4T	2T	10	40	50	4
MSZO 302	Core	T	Histology- Histochemistry and Comparative Anatomy	4T	2T	10	40	50	4
MSZO 303 (Unit I)	Core	P	Biochemistry and Toxicology	4P	2P	10	20	25	2
MSZO 303 (Unit II)	Core	P	Histology- Histochemistry and Comparative Anatomy	4P	2P	10	20	25	2
MSZO 304Z	GE	T	Applied Zoology	2T	1T	05	20	25	2
MSZO 305*	DE	T	Discipline-centric Elective	4T	2T	05	40	50	4
MSZO 306**	DE	P	Discipline-centric Elective	8P	4P	05	40	50	4
MSZO 307	CE	T/P	Community Engagement ##	N.A.	N.A.	05	20	25	2
Total credit								24	

T/P: Theory/Practical

CE: Community Engagement Activities; DE: Discipline-centric Elective; GE: Generic elective

***Discipline-centric Elective (Students need to take any one of these Discipline-centric Electives)**

1. AQUACULTURE AND FISHERIES (**COURSE CODE: MSZO 305-DE1**)
2. ECOLOGY AND ENVIRONMENTAL BIOLOGY (**COURSE CODE: MSZO 305-DE2**)
3. ENTOMOLOGY (**COURSE CODE: MSZO 305-DE3**)
4. MOLECULAR BIOLOGY AND GENETICS (**COURSE CODE: MSZO 305-DE4**)
5. PARASITOLOGY AND MICROBIOLOGY (**COURSE CODE: MSZO 305-DE5**)

****COURSE CODE: MSZO 306-DE1, 306-DE2, 306-DE3, 306-DE4, and 306-DE5**
##Community Engagement: Based on Discipline-centric Elective

Semester IV [Credits - 24]

Course code	Type	T/P	Name	Lect. Hr /we ek	Dur. Of Exam (in hr)	Marks			Credit
						I.A.	E.T.	Total	
MSZO 401	Core	T	Developmental Biology and Stem cell Biology	4T	2T	10	40	50	4
MSZO 402	Core	T	Biostatistics and Computational Biology	2T	1T	05	20	25	2

MSZO 403	Core	P	Developmental and Computational Biology	4P	2P	05	20	25	2
MSZO 404#	DE	T	Discipline-centric Elective*	4T	2T	10	40	50	4
MSZO 405##	DE	T	Discipline-centric Elective*	4T	2T	10	40	50	4
MSZO 406###	DE	P	Discipline-centric Elective*	8P	4P	10	40	50	4
MSZO 407	Term paper / Project	T / P	Dissertation\$\$ (Empirical or Non empirical)	N.A.	N.A.	10	40	50	4
Total credit									24

*Based on Discipline-centric Elective taken in Semester -III

\$\$Based on Discipline-centric Elective

#DE Course Code: MSZO 404-DE1, MSZO 404-DE2, MSZO 404-DE3, MSZO 404-DE4, and MSZO 404-DE5

##DE Course Code: MSZO 405-DE1, MSZO 405-DE2, MSZO 405-DE3, MSZO 405-DE4, and MSZO 405-DE5

###DE Course Code: MSZO 406-DE1, MSZO 406-DE2, MSZO 406-DE3, MSZO 406-DE4, and MSZO 406-DE5

Notes on marks distribution:

1. In each course, 20% marks is allotted for Internal Assessment (for both theory and practical), i.e., 10 marks for a paper of 50 marks and 5 marks for a paper of 25 marks.
2. Marks distribution for each paper will be as follows:
 - a. For **40** marks of **NON-UNIT** based paper:
Four questions (out of six) of 2 marks each, four questions (out of six) of 4 marks each and two questions (out of four) of 8 marks each are to be answered
 - b. For **40** marks of **UNIT** based paper:
UNIT I (Total Marks 20): *Four questions (out of six) of 1 mark each, two questions (out of four) of 4 marks each and one question (out of two) of 8 marks are to be answered*
UNIT II (Total Marks 20): *Four questions (out of six) of 1 mark each, two questions (out of four) of 4 marks each and one question (out of two) of 8 marks are to be answered*
 - c. For 20 marks of **NON-UNIT** based paper:
Four questions (out of six) of 1 mark each, two questions (out of four) of 4 marks each and one question (out of two) of 8 marks are to be answered