

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 | | | | Lect. Hr /week | Dur. of Exam (in hr) | Marks | | | Credit |
|--------------------|------|-----|--|----------------|----------------------|-------|------|-------|--------|
| Course code | Type | T/P | Name | | | 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 | | | | Lect. Hr /week | Dur. Of Exam (in hr) | Marks | | | Credit |
|-------------|------|-----|---|----------------|----------------------|-------|------|-------|--------|
| Course code | Type | T/P | Name | | | 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:

- 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.
- Marks distribution for each paper will be as follows:
 - 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
 - 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*
 - 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