

**NORTH-EASTERN HILL UNIVERSITY
DEPARTMENT OF ZOOLOGY
SHILLONG**

M.Sc. Zoology Syllabus, CBCS, (w. e. f. August, 2008)

| | Paper Name | Paper number | |
|--------------------------------|---|---------------------------|-----------------------------|
| | | Theory (100) 4 credits | Practical (50) 2 credits |
| 1st Semester | Cell Biology & Immunology | ZOO-C:101 | ZOO-C: 102 |
| | Biological Chemistry & Molecular Biology | ZOO-C:103 | ZOO-C: 104 |
| | Genetics & Developmental Biology | ZOO-C:105 | ZOO-C: 106 |
| 2nd Semester | Animal Physiology | ZOO-C: 201 | ZOO-C: 202 |
| | Parasitology and Entomology | ZOO-C: 203 | ZOO-C: 204 |
| | Techniques in Biology | ZOO-OC: 205 | ZOO-OC: 206 |
| 3rd Semester | Endocrinology & Reproductive Biology | ZOO-C: 301 | ZOO-C: 302 |
| | Aquatic Biology and Fisheries | ZOO-C: 303 | ZOO-C: 304 |
| | Animal Diversity | ZOO-OC: 305 | ZOO-OC: 306 |
| 4th Semester | Biosystematics & Evolution | ZOO-C: 401 | ZOO-C: 402 |
| | Ecology & Environmental Biology | ZOO-C: 403 | ZOO-C: 404 |
| | Special paper* | ZOO-C: 405 | ZOO-C: 406 |

* Special Papers offered

- A. Biochemical Adaptation and Metabolic Regulation
- B. Developmental Biology
- C. Endocrinology and Reproductive Physiology
- D. Fish Biology
- E. Genetics
- F. Helminth Parasitology
- G. Insect Physiology
- H. Limnology
- I. Molecular Cell Biology and Immunology

M. Sc Zoology syllabus includes 12 papers (Total marks: 1800, total credits: 72) with 10 core courses (C) (60 credits) and 2 open courses (OC) (12 credits). Open courses (OC) are to be offered in IInd and IIIrd semesters. Each individual course has 150 marks (6 credits) with 100 marks (4 credits) for Theory and 50 marks for Practical (2 credits). Semester IV shall have one core paper as Special paper, with several options offered by the department as indicated above.