**MSc Zoology and Biotechnology Credit Structure**

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| --- | --- |
| **SEMESTER 1** |  |
| **Paper** | **Credits** |
| **Animal Physiology and Endocrinology**  | **3** |
| **Cell Biology and Biochemistry** | **3** |
| **Molecular Biology and Genomics** | **3** |
| **Environmental Biotechnology** | **2** |
| **Animal Taxonomy** | **2** |
| **Animal biotechnology and Stem cell biology**  | **3** |
| **Cell Biology, Biochemistry, Molecular Biology, Genomics and Environmental Biotechnology Laboratory** | **3** |
| **Animal Physiology, Animal Taxonomy, Animal Biotechnology and Stem cell biology Laboratory** | **3** |
| **Total** | **22** |
|  |  |
| **SEMESTER 2** |  |
| **Paper** | **Credits** |
| **Immunology and Developmental biology** | **3** |
| **Genetics** | **3** |
| **Bioinformatics** | **2+1** |
| **Biophysics and Biostatistics** | **2** |
| **Reproductive Biotechnology- I (Specialization)** **Disease Biology and Therapeutics –I (Specialization) (Any One)** | **3** |
| **Genetics , Biophysics and Biostatistics Laboratory** | **2** |
| **Immunology and Developmental biology Laboratory** | **2** |
| **Reproductive Biotechnology laboratory I****Disease Biology and Therapeutics laboratory I (Any One)** | **3** |
| **Total credits** | **21** |
|  |  |
| **SEMESTER 3** |  |
| **Paper** | **Credits** |
| **Nutrition and Wellness in Animals** | **3** |
| **Biodiversity, Wildlife Biology and Ethology** | **2** |
| **Toxicology**  | **3** |
| **Research Methodology** | **2** |
| **Nutrition and Wellness in Animals; Biodiversity,****Wildlife Biology and Ethology; Toxicology Laboratory**  | **2** |
| **Reproductive Biotechnology- II (Specialization)** **Disease Biology and Therapeutics -II (Specialization) ) (Any One)** | **3** |
| **Reproductive Biotechnology laboratory II****Disease Biology and Therapeutics laboratory II (Any One)** | **3** |
| **Seminar Presentation (Summer Internship)** | **1** |
| **Total credits** | **19** |
|  |  |
| **SEMESTER 4** |  |
| **Paper** | **Credits** |
| **Dissertation** | **25** |
| **Total** | **25** |