

| Department Name: Zoology | | | | | | | | | | | | | | |
|--|-----|---|---------------|----------------------------------|------------------------------------|--------------------------------------|--|--|---|---|---|-------|-------------|---------------------|
| BSc(General) Major Zoology | | | | | | | | | | | | | | |
| Level | Sem | Disciplinary Major Mandatory | DSE Electives | Minor | | | | OE | VC/SEC | AEC, VEC, IKS | OJT, FP, CEP, CC, RP | Total | Exit Credit | Final Total Credits |
| | | | | Chemistry | Botany | Microbiology | Physics | | | | | | | |
| 4.5 | I | Systematics and Diversity of life- Non chordates (2C) (T) Fundamentals of Cytology and Genetics (2C) (T) Zoology Major Practical 1 (2C) | | | | | | Bioeconomics(2C) (T) Bioeconomics (2C) (P) | Ornamental fishery (2C) (P)- SEC Good Laboratory practices (2C) - SEC(P) | English Communication (2C) (T)- AEC Environmental Science (2C) (T)- VEC Indian Natural History-Animal Kingdom (2C) (T) -IKS | Online course based on Yoga (2C) (P)-CC | 22 | | 22 |
| 4.5 | II | Systematics and Diversity of life-chordates (2C) (T) Animal Behaviour (2C) (T) Zoology Major Practical 2 (2C) | | 2 Cr-T: Fundamental Biochemistry | 2Cr-T:Understanding Phytodiversity | 2 Cr-T: Introduction to Microbiology | 2Cr-T: Calibration Techniques/ Instrumentation for agriculture | Bioinstrumentation (2C) (T) Bioinstrumentation (2C) (P) | Biofloc technology (2C) (T)-SEC Biofloc technology (2C) (P)-SEC | Technical English (2C) (T)- AEC Pearl culture (2C) (T)- VEC | Physical Education/ Cultural activities/ NSS/ NCC/ Fine/ Applied/ Visual/ Performing Arts Course (2C) (P) | 22 | | 22 |
| Cumulative | | 12 | | 2 | | | | 8 | 8 | 10 | 4 | 44 | 4 | 48 |
| Certificate on Exit + 4 credit Bridge Course | | | | | | | | | | | | | | |

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| 5 | III | Animal Physiology (2C) (T) Mammalian Histology (2C) (T) Zoology Major Practical 3 (P)- (4C) | — | 4Cr-T:Chemistry of life | 2Cr-T:Botany for Entrepreneurs 2Cr-P:Botany for Entrepreneurs | 2 Cr-T: Growth and cultivation of bacteria 2 Cr-P: Practical on Growth and cultivation of bacteria | 2Cr-T: Basic Telecommunication 2Cr-P:Fun with Mechanics | Dairy production and technology (2C) (T) | Bee keeping(2C) (P) -SEC | Language-English/Marathi-I (2C) (T)-AEC | Scientific photography (2C) (T) Major specific project/zoological excursion/Institutional visits/study tour (2C) | 22 | | 22 |
| 5 | IV | Neuroscience (2C) (T) Animal Husbandry(2C) (T) Zoology Major Practical 4 (P)- (4C) | — | 4Cr-T:Chemistry of Materials | 2Cr-T:Field Botany 2Cr-P:Field Botany | 2 Cr-T: Industrial Microbiology 2 Cr-P: Industrial Microbiology | 2Cr-T:Fiber Optic Communication 2Cr-P:Basic Optics | Biofertilisers (2C) (T) | Sericulture (2C) (P)- SEC | Global climate change (2C) (T)-AEC | Computer applications (2C) (P)-CC Project (2C) | 22 | | 22 |
| Cumulative | | 28 | | 10 | | | | 12 | 12 | 14 | 12 | 88 | 4 | 92 |
| Diploma on Exit + 4 credits of NSQF and Internship | | | | | | | | | | | | | | |

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| 5.5 | V | Basics of Biochemistry (2C) (T) Comparative Anatomy of chordates (2C) (T) Entomology (2C) (T) Environmental Biology (2C) (T) Zoology Major Practical 5 (P)- (2C) | Pest Management (2C) (T) Organic Evolution (2C) (P) Biodiversity, Conservation and sustainable development (2C) (T) Biodiversity, Conservation and sustainable development (2C) (P) | 2Cr-P:Laboratory Safety 2Cr-T:IPR and Chemoinformatics | | 2 Cr-T: Medical Microbiology and immunology 2 Cr-P: Practical based on Medical Microbiology and immunology | 2Cr-T:Lasers and its Applications 2Cr-P: Optoelectronics/ Photonics | | Aquarium management (2C) (P) /- SEC Practicals in poultry management (2C) (P)-SEC Field project (2C) | | 22 | | 22 | |
| 5.5 | VI | Molecular Biology (2C) (T) Parasitology (2C) (T) Wildlife management (2C) (T) Medical and Forensic Zoology (2C) (T) Zoology Major Practical 6 (P)- (2C) | Clinical Pathology(2C) (T) Zoonotic and Vector-borne diseases (2C) (P) Environmental monitoring and management (2C) (T) Environmental monitoring and management (2C) (P) | 2Cr-T:Instrumental methods of analysis 2Cr-P: Analytical Chemistry Practical Course | | Nanobiotechnology (2C)(Th) Practicals based on nanobiotechnology (2C)(Pr) | 2Cr-T:Acoustics 2Cr-P:Radiation Physics | | Recent trends in Life sciences (4C)/ Research project (4C) -SEC | | 22 | | 22 | |
| Cumulative | | 48 | 8 | 18 | | | | 12 | 14 | 14 | 18 | 132 | | 136 |

Award of Degree

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| | | | | Chemistry | Botany | Microbiology | Physics | | | | | | | |
| 6 | VII | Biochemistry and biochemical techniques (4C) (T) General Embryology (2C) (T) Aquatic Biology(2C) (T) Skills in scientific communication and writing (4C) (T) | Zoology Lab- I (P)- (2C) Zoology Lab – II (2C)(P) | 4Cr-T: Research Methodology | | | | | | | Field project (2C)-FP | 22 | | 22 |
| 6 | VIII | Biostatistics and Bioinformatics (4C) (T) Human Endocrinology (2C) (T) Fishery Science (2C) (T) Environmental Impact Assessment (4C) (T) | Zoology Lab -I (P)- (2C) Zoology Lab- II (2C) (P) | | | | | | | | CEP (2C) OJT-4C | 22 | | 22 |
| Cumulative | | 76 | 16 | 22 | | | | 12 | 14 | 14 | 22 | 176 | | 184 |