

SCHEME AND SYLLABUS UNDER CHOICE BASED CREDIT SYSTEM B.Sc. WITH ZOOLOGY

	CORE COURSE (12)	Ability Enhancement Compulsory Courses AEC (2)	Skill Enhancement Courses SEC (4)	Discipline Specific Elective DSE (4)
I	CC- Botany I CC- Zoology I CC- Chemistry I	English Communication		
II	CC- Botany II CC-Zoology II CC- Chemistry II	Environmental Science		
III	CC- Botany III CC-Zoology III CC- Chemistry III		SEC-I	
IV	CC- Botany IV CC-Zoology IV CC- Chemistry IV		SEC-II	
V			SEC-III	DSE-Botany I DSE-Zoology I DSE-Chemistry I
VI			SEC-IV	DSE-Botany II DSE-Zoology II DSE-Chemistry II

Discipline Core Courses: Zoology

- 1. Animal Diversity
- 2. Comparative Anatomy and Developmental Biology of Vertebrates
- 3. Physiology and Biochemistry
- 4. Genetics and Evolutionary Biology

Discipline Specific Electives: Zoology (Any two)

- 1. Applied Zoology
- 2. Animal Biotechnology
- 3. Aquatic Biology
- 4. Immunology
- 5. Reproductive Biology
- 6. Insect, Vector and Diseases

Skill Enhancement Courses: Zoology

- 1. Apiculture
- 2. Aquarium Fish Keeping
- 3. Aquatic Biology
- 4. Medical Diagonistics
- 5. Public Health and Hygiene
- 5. Sericulture

CORE COURSE I ANIMAL DIVERSITY

THEORY (CREDITS 4))
Unit 1: Kingdom Protista General characters and classification up to classes; Locomotory Organelles and locomoti Protozoa	4 on in
Unit 2: Phylum Porifera General characters and classification up to classes; Canal System in <i>Sycon</i>	3
Unit 3: Phylum Cnidaria General characters and classification up to classes; Polymorphism in Hydrozoa	3
Unit 4: Phylum Platyhelminthes General characters and classification up to classes; Life history of <i>Taenia solium</i>	3
Unit 5: Phylum Nemathelminthes General characters and classification up to classes; Life history of Ascaris lumbricoides its parasitic adaptations	5 s and
Unit 6: Phylum Annelida General characters and classification up to classes; Metamerism in Annelida	3
Unit 7: Phylum Arthropoda General characters and classification up to classes; Vision in Arthropoda, Metamorphos Insects	5 sis in
Unit 8: Phylum Mollusca General characters and classification up to classes; Torsion in gastropods	4
Unit 9: Phylum Echinodermata General characters and classification up to classes; Water-vascular system in Asteroidea	4
Unit 10: Protochordates General features and Phylogeny of Protochordata	2
Unit 11: Agnatha General features of Agnatha and classification of cyclostomes up to classes	2
Unit 12: Pisces General features and Classification up to orders; Osmoregulation in Fishes	4

Unit 13: Amphibia	4
General features and Classification up to orders; Parental care	
Unit 14: Reptiles	4
General features and Classification up to orders; Poisonous and non-poisonous snakes, mechanism in snakes	Biting
Unit 15: Aves	5
General features and Classification up to orders; Flight adaptations in birds	
Unit 17: Mammals Classification up to orders; Origin of mammals	5

Note: Classification of Unit 1-9 to be followed from "Barnes, R.D. (1982). *Invertebrate Zoology*, V Edition"