

# ACADEMIC PLANNER & UNITIZATION OF SYLLABUS

Department of Zoology

**Bankura Christian College**

ACADEMIC YEAR 2023-24 (**Semester 1<sup>st</sup>**)

1<sup>st</sup> Semester (July to December)

**Name: Sri Avisek Patra**

## MINOR

### Theory

#### Unit 1: Introduction

Coelom: Types, Evolution and significance

#### Unit 2: Basics of Animal Classification

1. Definitions: Classification, Systematics and Taxonomy: Taxonomic Hierarchy, Taxonomic types
2. Codes of Zoological Nomenclature; Principle of priority; Synonymy and Homonymy; Six kingdom concept of classification (Carl Woese).

#### Unit 6: Platyhelminthes

General characteristics and classification up to classes.

#### Unit 13: Hemichordata

1. General characteristics of phylum Hemichordata.
2. Evolutionary significance of Hemichordates.

### Practical

1. Identification of following specimen  
*Amoeba, Euglena, Paramecium, Sycon, Fasciola, Ascaris Physalia, Aurelia, Gorgonia, Metridium, Pennatula, Fungia,*
2. Identification of T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm
3. Dissection of digestive system and nervous system of earthworm
4. Dissection of reproductive system of earthworm

| MONTH/YEAR  | WEEK | THEORY PORTIONS (MINOR-1)  | PRACTICAL PORTIONS (MINOR-1)  |
|-------------|------|--|---|
|             |      | Class 1  | Class 2   |
| August 2023 | 2    | Coelom: Types, Evolution and significance                                  | Identification of following specimen<br><i>Amoeba, Euglena, Paramecium, Sycon</i> |
|             | 3    | Definitions: Classification, Systematics and Taxonomy: Taxonomic Hierarchy | Practice of Identification of <i>Amoeba, Euglena, Paramecium, Sycon</i>           |
|             | 4    | Definitions: Classification, Systematics and Taxonomy: Taxonomic Hierarchy | Dissection of digestive system of earthworm                                       |

|                       |             |  |   |
|-----------------------|-------------|--|---|
| <b>September 2023</b> | 1           | Taxonomic types                                    | Practice of dissection of digestive system of earthworm   |
|                       | 2           | Codes of Zoological Nomenclature                   | Dissection of nervous system of earthworm   |
|                       | 3           | Codes of Zoological Nomenclature                   | Practice of dissection of nervous system of earthworm   |
|                       | 4           | Principle of priority; Synonymy and Homonymy;      | Dissection of reproductive system of earthworm  |
|                       | 5           | Class Test   | Practice dissection of reproductive system of earthworm   |
| <b>MONTH/YEAR</b>     | <b>WEEK</b> | <b>PORTIONS</b>                                    | <b>PORTIONS</b>   |
| <b>October 2023</b>   | 1           | Six kingdom concept of classification (Carl Woese) | Identification of <i>Physalia, Aurelia, Gorgonia, Metridium, Pennatula, Fungia</i>                  |
|                       | 2           | Six kingdom concept of classification (Carl Woese) | Practice of Identification of <i>Physalia, Aurelia, Gorgonia, Metridium, Pennatula, Fungia</i>      |
| <b>MONTH/YEAR</b>     | <b>WEEK</b> | <b>PORTIONS</b>                                    | <b>PORTIONS</b>   |
| <b>November 2023</b>  | 1           | General characteristics of Platyhelminthes         | Identification of <i>Fasciola, Ascaris</i>  |
|                       | 3           | Classification of Platyhelminthes up to classes    | Practice of Identification of <i>Fasciola, Ascaris</i>  |
|                       | 4           | General characteristics of phylum Hemichordata.    | Identification of T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm             |
|                       | 5           | Evolutionary significance of Hemichordates         | Practice of Identification of T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm |
| <b>December 2023</b>  | 2           | Question Answer session                            | Laboratory notebook check   |
|                       | 3           | Student Seminar                                    | Practice of Identification  |
|                       | 4           | Student Seminar                                    | Demo Test of Practical Examination  |
|                       | 5           | Question Answer session                            | Final Laboratory notebook check   |