

**Dept. of Zoology, Bankura Sammilani College**

**MODULE BREAKUP OF THE SYLLABUS**

**SESSION 2022-23**

**CLASS : Sem-I ( Zoology GE)**

**(Theory Paper : GE T1- Animal Diversity)**

<b>Month</b>	<b>Topic</b>
<b>July – August - September</b>	<b>Unit 1: Protozoa</b> Protozoa General characters of Protozoa; Life cycle of Plasmodium  <b>Unit 2: Porifera</b> General characters and canal system in Porifera  <b>Unit 3: Cnidaria</b> General characters of Cnidarians and polymorphism in siphonophorans  <b>Unit 4: Aceolomates</b> General characters of Helminthes  <b>Unit 5: Pseudocoelomates</b> General characters of Nematoda Parasitic adaptations  <b>Unit 6: Annelida</b> General characters of Annelida Metamerism  <b>Unit 7: Arthropoda</b> General characters Social life in insects (Termite)  <b>Unit 8: Mollusca</b> General characters of mollusc Pearl Formation

<p><b>October – November - December</b></p>	<p><b>Unit 9: Echinodermata</b> General characters of Echinodermata Water Vascular system in Starfish</p> <p><b>Unit 10: Urochordata and Cephalochordata</b> Salient features</p> <p><b>Unit 11: Pisces</b> General Characters Osmoregulation, Migration of Fish</p> <p><b>Unit 12: Amphibia</b> General characters, Adaptations for terrestrial life, Parental care</p> <p><b>Unit 13: Reptilia</b> General Characters Amniotes; Origin of reptiles. Terrestrial adaptations in reptiles.</p> <p><b>Unit 14: Aves</b> General Characters The origin of birds; Flight adaptations</p> <p><b>Unit 15: Mammalia</b> General Characters Early evolution of mammals; Primates; Dentition in mammals.</p>
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**MODULE BREAKUP OF THE SYLLABUS**

**SESSION 2022-23**

**CLASS : Sem-I (Zoology GE)**

**(Practical Paper : Core P1 and Core P2)**

<b>Month</b>	<b>Topic</b>
<b>July – August - September</b>	<p>1. Identification of following specimens:</p> <p>a. Non Chordates: Euglena, Noctiluca, Paramecium, Sycon, Physalia, Tubipora, Metridium, Taenia, Ascaris, Nereis, Aphrodite, Leech, Peripatus, Limulus, Eupagurus, Buthus, Daphnia, Chiton, Dentalium, Octopus, Asterias, and Antedon.</p> <p>b. Chordates: Balanoglossus, Amphioxus, Petromyzon, Pristis, Hippocampus, Labeo, Ichthyophis/Uraeotyphlus, Salamander, Rhacophorus, Draco, Uromastix, Naja, Viper, Alcedo, Dinopium, Funambulus, Pteropus.</p>
<b>October – November - December</b>	<p>2. Identification of following Permanent Slides: Cross section of Ascaris (male and female), T. S. of Earthworm passing through typhlosolar intestine, Bipinnaria and Pluteus larva.</p> <p>3. Temporary mounts of:</p> <p>a. Septal &amp; pharyngeal nephridia of earthworm.</p> <p>b. Unstained mounts of Placoid, cycloid and ctenoid scales.</p> <p>4. Dissections : Digestive and nervous system of Cockroach, Afferent branchial arterial system of carp/lata</p> <p>5. Submission of Laboratory Note Book</p>

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**MODULE BREAKUP OF THE SYLLABUS**

**SESSION 2022-23**

**CLASS : Sem-III ( Zoology GE)**

**(Theory Paper : GE T3 Environment and Public Health)**

<b>Month</b>	<b>Topic</b>
<b>July – August - September</b>	<p><b>Unit 1: Introduction</b> Sources of Environmental hazards, Hazard identification and accounting, Fate of toxic and persistent substances in the environment, Dose response evaluation, Exposure assessment, Persistent organic pollutant</p> <p><b>Unit 2: Climate Change</b> Greenhouse gases and global warming, Acid rain, Ozone layer destruction, Effect of climate change on public health</p> <p><b>Unit 3: Pollution</b> Air, water, Land, noise pollution sources and effects, Pollution control</p>
<b>October – November - December</b>	<p><b>Unit 4: Waste Management Technologies</b> Sources of waste, types and characteristics, Sewage disposal and its management, Solid waste disposal, Biomedical waste handling and disposal, e-waste management, nuclear waste handling and disposal, Waste from thermal power plants.</p> <p><b>Unit 5: Diseases</b> Causes, symptoms and control of tuberculosis, Asthma, Cholera, Minamata disease, typhoid, filariasis</p>

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**MODULE BREAKUP OF THE SYLLABUS**

**SESSION 2022-23**

**CLASS : Sem-III (Zoology GE)**

**(Practical Paper : GE T3 Environment and Public HealthLab)**

<b>Month</b>	<b>Topic</b>
<b>July – August - September</b>	. 1. To determine pH, Cl, SO <sub>4</sub> , NO <sub>3</sub> in soil and water samples from different locations by using soil and water testing kit.
<b>October – November - December</b>	2. Submission of laboratory Note Book