

# Government PG College, Ambala Cantt.

Subject: Zoology Name of Teacher : Dr. Ratesh Kumar

Lesson Plan Session 2023-24 Semester: 1<sup>st</sup> Class: B.Sc. Medical

Month	Details
August 2023	<p><b>1. Protozoa:</b></p> <ul style="list-style-type: none"> <li>i) General characters and classification up to order level</li> <li>ii) Biodiversity and economic importance</li> <li>iii) Type study of <i>Plasmodium</i>;</li> <li>iv) Parasitic protozoans: Life history, mode of infection and pathogenecity of <i>Entamoeba</i>, <i>Trypanosoma</i>, <i>Leishmania</i> and <i>Giardia</i>. . <b>Phylum – Annelida :</b></li> <li>i) General characters and classification up to order level</li> <li>ii) Biodiversity and economic importance of Annelida</li> <li>iii) Type study – <i>Pheretima</i> (Earthworm)</li> <li>vi) Metamerism in Annelida</li> <li>v) Trochophore larva</li> </ul>
September 2023	<p><b>2. Porifera:</b></p> <ul style="list-style-type: none"> <li>i) General characters and classification up to order level</li> <li>ii) Biodiversity and economic importance</li> <li>iii) Type study – <i>Sycon</i></li> <li>iv) Canal system in sponges</li> <li>v) Spicules in sponges</li> </ul> <p><b>2. Phylum – Arthropoda :</b></p> <ul style="list-style-type: none"> <li>i) General characters and classification up to order level</li> <li>ii) Biodiversity and economic importance of insects</li> <li>vi) Type study – <i>Grasshopper</i></li> </ul>
October 2023	<p><b>1. Phylum – Coelentrata :</b></p> <ul style="list-style-type: none"> <li>i) General characters and classification up to order level</li> <li>ii) Biodiversity, economic importance</li> <li>iii) Type Study - <i>Obelia</i></li> <li>iv) Corals and coral reefs</li> <li>v) Polymorphism in Siphonophores</li> </ul> <p><b>2. Phylum – Helminths :</b></p> <ul style="list-style-type: none"> <li>i) General characters and classification up to order level</li> <li>ii) Biodiversity, economic importance</li> <li>iii) Type study – <i>Fasciola hepatica</i>;</li> <li>iv) Helminths parasites : Brief account of life history, mode of infection and pathogenecity of <i>Schistosoma</i>, <i>Ancylostoma</i>, <i>Trichinella</i>, <i>Wuchereria</i> and <i>Oxyuris</i>.</li> </ul>
November 2023	<p><b>2. Phylum – Echinodermata :</b></p> <ul style="list-style-type: none"> <li>i) General characters and classification up to order level</li> <li>ii) Biodiversity and economic importance</li> <li>vii) Type study – <i>Asteries</i> (Sea Star)</li> <li>viii) Echinoderm larvae</li> <li>ix) Aristotle's Lantern. <b>Phylum - Mollusca:</b></li> <li>i) General characters and classification up to order level</li> <li>ii) Biodiversity and economic importance</li> <li>iii) Type study of - <i>Pila</i></li> <li>iv) Torsion and detorsion in gastropoda</li> </ul>

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	v) Respiration and foot
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Subject: Zoology Name of Teacher : Dr. Ratesh Kumar

Lesson Plan Session 2023-24 Class: B.Sc. 3<sup>rd</sup> sem.

Month	Details
August 2023	<b>Muscles:</b> Types of muscles, ultra-structure of skeletal muscle. Bio-chemical and physical events during muscle contraction; single muscle twitch, tetanus, muscle fatigue muscle, tone, oxygen debt
September 2023	Cori's cycle, single unit smooth muscles, their physical and functional properties. <b>Bones:</b> Structure and types, classification., <b>Class test</b>
October 2023	bone growth and resorption, effect of ageing on Skeletal system and bone disorders Absorption of nutrients & assimilation; control of enzyme secretion
November 2023	Types study of Labeo

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Subject: Zoology Name of Teacher : Dr. Ratesh Kumar  
Lesson Plan Session 2023-23 Class: B.Sc. 5th sem.

Month	Details
August 2023	Parental care in animals.
September 2023	Population Interactions: Competition, predation, parasitism, commensalism and mutualism.
October 2023	6. Population: Growth and regulation Class Test
November 2023	Environmental Pollution: Air, water, soil and management strategies.

Dr. R. K. Ramesh

