

CURRICULUM PLAN (Nov-March, 2022-23)

Name– **Dr. P.P. Saini**

Subject- **Non-Chordata-I Protista to Pseudocoelomates (DSC; Theory)**

Course- **B.Sc. (hons.) Zoology Semester I (NEP)**

Contents	Allocation of lectures	Monthwise schedule to be followed	Tutorial/ Assignments / Presentations
Unit I: Introduction to Non-chordates: General characteristics of non-chordates and basis of classification	2 lectures	November, 2022	<ul style="list-style-type: none"> • Lecture followed by interactive open session
Unit II: Protista (07 Hours) General characteristics and classification; Life cycle of Plasmodium vivax; Locomotion and reproduction in Protista. Unit III: Porifera (05 Hours) Introduction to Parazoa; General characteristics and classification; Canal system in sponges.	13 lectures	Nov-Dec, 2022	<ul style="list-style-type: none"> • 2 minutes lecture on previous class • Lecture and discussion
Unit IV: Cnidaria and Ctenophora Introduction to Metazoa; General characteristics and classification; Polymorphism in Cnidaria; Corals and coral reefs.	16 lectures	Dec-Jan, 2022	<ul style="list-style-type: none"> • Test • Lecture and discussion • Sharing and discussion on previous year questions
Unit V: Platyhelminthes and Nematelminthes : General characteristics and classification; Parasitic adaptations of Helminthes; Life cycle of Taenia solium and Ascaris lumbricoides.	08 lectures	Feb, 2022	<ul style="list-style-type: none"> • Assignment Submission • Presentations by students
REVISION		March, 2021	REVISION

CURRICULUM PLAN (Nov.-March, 2020)

Name– **Dr. P. P. Saini**

Subject- **Non-Chordata-I Protista to Pseudocoelomates (DSC; Practical)**

Course- **B.Sc. (Hons.) Zoology Semester I (NEP)**

Shared with-

Date	Practical
04/11/2022 11/11/2022 18/11/2022	<ul style="list-style-type: none"> • Syllabus Discussion • Study of whole mount of Euglena, Amoeba, Noctiluca, Paramecium, Binary fission in Paramecium and Conjugation in Paramecium. • Examination of pond water collected from different places to observe diversity in Protista.
25/11/2022 02/12/2022	<ul style="list-style-type: none"> • Study of Sycon, Hyalonema, Euplectella, Spongilla, T.S. of Sycon, L.S. of Sycon.
09/12/2022 16/12/2022 23/12/2022	<ul style="list-style-type: none"> • Study of <i>Obelia</i>, <i>Physalia</i>, <i>Millepora</i>, <i>Aurelia</i>, <i>Tubipora</i>, <i>Corallium</i>, <i>Alcyonium</i>, <i>Gorgonia</i>, <i>Metridium/Adamsia</i>, <i>Pennatula</i>, <i>Fungia</i>, <i>Meandrina</i>, <i>Madrepora</i>. • Specimen/slide of any one Ctenophore.
06/01/2023 13/01/2023	<ul style="list-style-type: none"> • Study of adult <i>Fasciola hepatica</i>, <i>Taenia solium</i> and their life stages (Slides/microphotographs).
20/01/2023	<ul style="list-style-type: none"> • Study of adult <i>Ascaris lumbricoides</i> and its life stages (Slides/microphotographs).
27/01/2023	<ul style="list-style-type: none"> • Discussion on Submission of a Project Report on life cycle of any one parasite or pathogen/corals/coral reefs.
03/02/2023	<ul style="list-style-type: none"> • Examination of soil samples collected from different places to observe diversity in nematodes
Feb-Mar 2023	REVISION Mock Practical Exam

