CURRICULUM PLAN (29August-2024 to Jan-2025)

Name– Dr. P.P. Saini Subject- Non-Chordata-I Protista to Pseudocoelomates (DSC; Theory) Course- B.Sc. (hons.) Zoology Semester I (NEP)

Hrs/Wk-02

Contents	Allocation	Monthwise	Tutorial/
	of lectures	schedule to be followed	Assignments / Presentations
Unit I: Introduction to Non-chordates: General characteristics of non- chordates and basis of classification	2 lectures	29 Aug-7 Sep- 20024	• 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	Sep-Oct-2024	 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	Nov-Dec-2024	 Test Lecture and discussion Sharing and discussion on previous year questions
Unit V: Platyhelminthes and Nemathelminthes : General characteristics and classification; Parasitic adaptations of Helminthes; Life cycle of Taenia solium and Ascaris lumbricoides.	08 lectures	Dec-Jan-2024	 Assignment Submission Presentations by students
REVISION		Dec-Jan-2024	REVISION

CURRICULUM PLAN (August to Dec-2024)

Practical 60 hrs (Laboratory periods: 15 classes of 4 hours each)

Name– **Dr. P. P. Saini** Subject- **Diversity of Chordates (DSC; Practical)** Course- **B.Sc. (Hons.) Zoology Semester I (NEP)** Shared with- **Dr. Kanchan Batra**

Date	Practical	
02/08/2024 09/08/2024 16/08/2024	 Syllabus Discussion Protochordata: Balanoglossus, Herdmania, Branchiostoma, Colonial Urochordata, Sections of Balanoglossus through proboscis and branchiogenital regions, Sections of Amphioxus through pharyngeal, intestinal and caudal regions. Permanent slide of Herdmania spicules. 2. Agnatha: Petromyzon, Myxine. 	
23/08/2024 30/08/2024	 Pisces: Scoliodon, Sphyrna, Pristis, Torpedo, Chimaera, Mystus, Heteropneustes, Labeo, Exocoetus, Echeneis, Anguilla, Hippocampus, Tetrodon/Diodon, Anabas, Flatfish. Permanent slides of Placoid and Cycloid Scales. 	
06/09/2024	Amphibia: Ichthyophis/Ureotyphlus, Necturus, Bufo, Hyla, Alytes, Salamandra.	
13/09/2024 20/09/2024	 Reptilia: Chelone, Trionyx, Hemidactylus, Varanus, Uromastix, Chamaeleon, Ophiosaurus, Draco, Bungarus, Vipera, Naja, Hydrophis, Zamenis, Crocodylus; Key for Identification of poisonous and non-poisonous snakes. Student Presentation: Power point presentation on any two animals from two different classes. 	
20/09/2024 27/09/2024	 Aves: Study of six common birds from different orders. Types of beaks and claws. Student Presentation: Power point presentation on any two animals from two different classes 	
04/10/2024	 Mammalia: Sorex, Bat (Insectivorous and Frugivorous), Funambulus, Loris, Herpestes, Erinaceous. 	
Oct-Nov-2024	 Revision Student Presentation: Power point presentation on any two animals from two different classes Mock Test 	
Nov-Dec-2024	Practical Examination	

CURRICULUM PLAN (August to Dec-2024)

Practical 60 hrs (Laboratory periods: 15 classes of 4 hours each)

Name– **Dr. P. P. Saini** Subject- **Human Physiology (GE; Practical)** Course- **Zoology GE Semester I (NEP)**

Date	Practical		
14/09/2024 21/09/2024 28/09/2024	 Syllabus Discussion Preparation of haemin and haemochromogen crystals. Recording of blood pressure using a Sphygmomanometer. 		
05/10/2024 19/10/2024	 Haemoglobin estimation using Sahli's haemoglobinometer. Determination of ABO Blood group. 		
26/10/2024 09/11/2024	Examination and detailed study of permanent histological sections of mammalian Stomach, Duodenum, Liver, Lung, Kidney, Pancreas, Testis and Ovary.		
16/11/2024	Preparation of temporary mount of neurons and blood cells (blood film preparation)		
Nov-Dec-2024	 Revision Mock Test Practical Examination 		

CURRICULUM PLAN (August to Dec-2024)

Name– **Dr. P. P. Saini** Subject- **Public Health and Hygein (SEC; Practical)** Course- **B.Sc. (Hons.) Zoology Semester I (NEP)** Shared with- **Dr. Kanchan Batra**

Date	Practical		
21/08/2024 22/08/2024	 Syllabus Discussion To study various hygiene practices like personal, menstrual, oral and 		
28/08/2024 29/08/2024	 hand hygiene etc Assessment of nutritional status using anthropometric indices like BMI, WHR. 		
04/09/2024	 Assessment of Nutritional status by a survey of clinical and non- invasive biochemical parameters To study the following medically important organisms like 		
05/09/2024 11/09/2024 12/09/2024	mosquito, house fly cockroach and rats as transmission vectors for infectious dise		
11/09/2024 12/09/2024	• Measuring blood pressure and correlating it with lifestyle.		
18/09/2024 19/09/2024	• Discussion on Case study of a disease (Nutritional, infectious and lifestyle) along with the public health data with analysis and discussion.		
25/09/2024 26/09/2024	• Collecting secondary data on AQI from different areas and correlate with health indices in that area		
03/10/2024 09/10/2024 10/10/2024	• To determine the portability of water using, pH, BOD, COD and MPN of the water sample from different sources		
Oct-Nov-Dec-2024	 Revision Student Presentation: Power point presentation on any two animals from two different classes Field Visit 		
	 Field visits to nearby health care center to collect some data on the rate of a particular disease over past few months or years. Field visit for understanding the health programs and hygiene like Asha worker interviews/Sulabh international museum of toilets/Water Treatment Plant (any one) Mock Test 		
Nov-Dec-2024	Practical Examination		