Teaching Plan for the Academic Year: (EVEN SEMESTER 2024)
Department: ZOOLOGY

DR. MANAS KUMAR DHAL
THEORY

Name of the Teacher	Name of the Paper	Class/Semester	Month	Topics/Units Planned	Covered
Dr. Manas Kumar Dhal	**DSC: Wildlife Conservation and Management**	**B. Sc. (H) Zoology Sem VI**	January	Unit 2: Evaluation and Management of Wildlife Habitat Analysis: Physical Parameters such as Topography, Geology, Soil and water	Done
			February	Unit 2: Evaluation and Management of Wildlife Biological Parameters: Food, cover, forage, browse and cover estimation, Standard evaluation procedures: remote sensing and GIS	Done
			March	Unit 3: Management of Habitats- Setting back succession: Grazing logging; Mechanical treatment, Advancing the successional process; Cover construction	Done
			April	Unit 3: Management of Habitats- Preservation of general genetic diversity, Restoration of degraded habitats, Unit-4: Population Estimation: Population density, Natality, Birth rate, Mortality,	Done

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				fertility schedules and sex ratio computation Faecal analysis of ungulates and carnivores	
			May	Unit 4: Faecal samples, slide preparation, and Hair identification	
Dr. Manas Kumar Dhal	**DSE: Parasitology**	**B. Sc. (H) Zoology Sem- IV/ B. Sc. (Prog.) Life Sciences Sem-IV**	January	UNIT-3: Parasitic Platyhelminthes Study of Morphology, Life Cycle, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and treatment of *Fasciolopsis buski*, *Schistosoma haematobium*	Done
			February	UNIT-3: Parasitic Platyhelminthes Study of Morphology, Life Cycle, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and treatment of *Taenia solium* UNIT- 4: Parasitic Nematodes Study of Morphology, Life Cycle, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and treatment of *Ascaris lumbricoides, Ancylostoma duodenale* and *Wuchereria bancrofti*	Done
			March	UNIT- 4: Parasitic Nematodes Study of Morphology, Life Cycle, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and treatment of *Trichinella spiralis*	Done

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				UNIT- 5: Parasitic Arthropoda Biology, importance and control of ticks, mites	
			April	UNIT- 5: Parasitic Arthropoda Biology, importance and control of *Pediculus humanus* Biology, importance and control of *Xenopsylla cheopis* Biology, importance and control of *Cimex lectularius*	Done
			May	UNIT- 6: Parasitic Vertebrates A brief account of Parasitic vertebrates; Cookicutter Shark, Hood Mocking bird and Vampire Bat	Done

PRACTICALS

Name of the Teacher	Name of the Paper	Class/Semester	Month	Topics/Units Planned	Covered
Dr. Manas Kumar Dhal	**Healthy and Sustainable Food Choices (SEC)**	**B. Sc. (Prog.) Life Sciences/ B. Sc (H)/ B.Com/ B.A. Sem IV**	January	Exploring the food environment by mapping the food outlets and food available near home and college	Done
			February	Examining the different components of a food label Identifying HFSS food by using Traffic Light/ any other nutrient profiling model Comparing two similar products like 2 brands/types of bread/juice/biscuits/etc. to understand which is healthier	Done
			March	Estimation of energy and nutrient density of selected food products using nutrient composition	Done

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				database Calculate nutritive value of 1 piece bread/ apple, 1 bowl of milk/ pulses and 1 cup of tea/ milk	
			April	Plan and prepare nutrient dense food items that are low in fat, salt and sugar -Snacks, Salads and Soups, Desserts, Meal combinations Identification of nutritious food sources which have minimal impact on the environment	Done
			May	Case study on understanding food supply chain and carbon footprints of any commonly consumed foods Test and presentations	Done

ICT Tools Used during Classes & Practicals

- To aid in better understanding of various phenomena and concepts Laptops have been used along with projector screens that are best for visualizing videos and presentations.
- Microsoft powerpoint presentations are made to help students in the learning process and later shared with them as well
- For various experiments that are dry lab, you tube videos are shown to demonstrate their procedures