## Km. Mayawati Govt. Girls P.G. College, Badalpur, G.B. Nagar

Dept of Zoology:

## Assignments: M.Sc.-IInd Semester 2024-26

## Instructions for assignments

- Mark of Each Assignment: 5 (Deduction of Marks: 1 mark deducted for Late Submission and 1 for late personation.), Prsenation:5
- Upload your assignments and project before due date on google classroom https://classroom.google.com/c/NzAzMDc0MTIwNTY4?cjc=zq4idlx (Class code- zq4idlx)
- Presentation mode (online/offline) will be update before presentation date depending upon situations.
- Submit your project upto 30-04-2025 to Dr. Neetu Singh
- The teacher will revert your evaluated assignments and internals by email, you can check and raise your point of view (if any) within one week, after that marks will be uploaded.
- Tentative date of internals: March IInd week
- All student presentations were recorded online and uploaded on Zoology Department YouTube account. Make a video of your assignments and upload it on Zoology Department YouTube account with the help of Miss. Sumbul Zehra, Miss Jyoti Sharma and Miss Himanshi

Class Roll Number	Name of Student	B050801T : Environmental Biology & Wildlife Biology			B050802T : Animal Diversity- Chordata			B050803T : Animal Physiology			B050804T : Animal Behavior		
		Ms. Neetu Singh an Miss. Himanshi	Ms. Abhishek Jaiswal and Miss. Shelly Khari		Prof Dinesh C. Sharma and Miss. Sumbul Zehra			Prof Dinesh C. Sharma and Miss. Jyoti Sharma					
	Z	Assignment & Preser	Assignment & Presentation		Assignment & Presentation			Assignment & Presentation					
		Topic of assignment	Submi ssion Last date	Presentatio n Date	Topic of assignment	Submi ssion Last date	Presen tation Date	Topic of assignment	Submis sion Last date	Present ation Date	Topic of assignment	Submiss ion Last date	Present ation Date
1	AISHWARY A KASHYAP	Role of Remote Sensing in Environmental Monitoring and Management in India	1 Mar 25	10 Mar 24	Evolutionary Significance of Protochordates in Chordate Phylogeny	8 Mar 25	17 Mar 24	The Gut Microbiome and Its Role in Digestion: Recent Research and Implications	22 Mar 25	24 Mar 24	Impact of Climate Change on Animal Behaviour: How changing temperatures affect migration, foraging, and mating behavior.	29 Mar 25	31 Mar 24
2	ANCHAL	Abiotic and Biotic Interactions: Their Influence on Ecosystem Stability	1 Mar 25	10 Mar 24	Comparative Analysis of Larvacea, Thaliacea, and Cephalochordates	8 Mar 25	17 Mar 24	Impact of Ultra-Processed Foods on BMR and Metabolic Health	22 Mar 25	24 Mar 24	AI and Machine Learning in Animal Behaviour Studies: Recent advancements in tracking and analyzing animal behavior.	29 Mar 25	31 Mar 24
3	ANJU RANI	Concept of Habitat and Ecological Niche: Comparative Analysis Across Ecosystems	1 Mar 25	10 Mar 24	Adaptive Features and Affinities of Cephalochordates	8 Mar 25	17 Mar 24	Long COVID and Its Effect on the Respiratory System: Mechanisms and Treatments	22 Mar 25	24 Mar 24	Behavioural Adaptations in Urban Wildlife: How animals modify their behavior to survive in cities.	29 Mar 25	31 Mar 24
4	DEEPALI BHATI	Application of GIS and Remote Sensing in Biodiversity Conservation	1 Mar 25	10 Mar 24	Theories on the Origin of Vertebrates: A Comparative Study	8 Mar 25	17 Mar 24	Microplastics in the Digestive System: Current Research on Absorption and Toxicity	22 Mar 25	24 Mar 24	The Effect of Habitat Destruction on Stereotyped Behaviours in Animals: Examining stress-induced changes in wild species.	29 Mar 25	31 Mar 24

5	IQRA SAIFI	Impact of Human Activities on Physical Environment: A Case Study Approach	1 Mar 25	10 Mar 24	Fossil Evidence Supporting the Evolution of Vertebrates	8 Mar 25	17 Mar 24	Comparative Analysis of Oxygen Transport Mechanisms in Terrestrial and Aquatic Animals	22 Mar 25	24 Mar 24	Conflict Behaviour in Captive Animals: A study on stress- induced aggression and stereotypic behaviors in zoos and laboratories.	29 Mar 25	31 Mar 24
6	IRAM SAIFI	Metapopulation Dynamics: Concept, Significance, and Applications	1 Mar 25	10 Mar 24	Major Evolutionary Trends in Vertebrates: From Aquatic to Terrestrial Life	8 Mar 25	17 Mar 24	Artificial Hearts and Advanced Cardiac Assist Devices: A Boon for Heart Failure Patients	22 Mar 25	24 Mar 24	Neural Mechanisms of Learning and Memory in Animals: Insights from recent research on brain plasticity.	29 Mar 25	31 Mar 24
7	KAJAL	Age-Structured Populations and Their Role in Ecosystem Sustainability	1 Mar 25	10 Mar 24	Comparative Account of the Integumentary System in Vertebrates	8 Mar 25	17 Mar 24	Blood Clotting Disorders Post-COVID Vaccination: Mechanisms and Treatment Approaches	22 Mar 25	24 Mar 24	Communication in Marine Mammals: How whales and dolphins adapt to increasing underwater noise pollution.	29 Mar 25	31 Mar 24
8	LAKSHMI BHATI	Community Structure and Diversity Indices: Methods and Applications	1 Mar 25	10 Mar 24	Evolution of Endoskeletal System: Adaptations in Different Classes of Vertebrates	8 Mar 25	17 Mar 24	The Role of Epigenetics in Blood Pressure Regulation and Cardiovascular Diseases	22 Mar 25	24 Mar 24	Role of Pheromones in Social Insects: Chemical communication in bees and ants and its importance in colony survival.	29 Mar 25	31 Mar 24
9	NEHA BHATI	Edges and Ecotones: Their Role in Biodiversity and Ecosystem Functioning	1 Mar 25	10 Mar 24	Dermal and Epidermal Structures in Vertebrates: Functional and Evolutionary Perspectives	8 Mar 25	17 Mar 24	CRISPR and Gene Therapy in Treating Hemophilia and Other Blood Disorders	22 Mar 25	24 Mar 24	Impact of Artificial Light on Nocturnal Animal Communication: A study on fireflies and other bioluminescent species.	29 Mar 25	31 Mar 24
10	NIDHI CHOUDHARY	Population Dispersal and Interdemic Extinction: Causes and Consequences	1 Mar 25	10 Mar 24	Evolutionary Significance of Ostracoderms and Coelacanthiformes	8 Mar 25	17 Mar 24	AI in ECG Interpretation: How Machine Learning is Revolutionizing Cardiovascular Diagnosis	22 Mar 25	24 Mar 24	Comparative Analysis of Problem-Solving Skills in Primates and Birds: Insights from recent studies on tool use.	29 Mar 25	31 Mar 24
11	PRACHI CHAUDHARY	Energy Flow and Ecological Energetics in Different Ecosystems	1 Mar 25	10 Mar 24	Adaptive Radiation in Fishes: A Study of Morphological and Behavioral Adaptations	8 Mar 25	17 Mar 24	Impact of Chronic Kidney Disease on Cardiovascular and Nervous System: A Physiological Perspective	22 Mar 25	24 Mar 24	The Role of Hormones in Animal Parental Care: A case study on oxytocin and prolactin in mammals.	29 Mar 25	31 Mar 24
12	PRIYA BHATT	Comparative Study of Indian Terrestrial and Aquatic Ecosystems	1 Mar 25	10 Mar 24	Fish Locomotion: Mechanisms and Evolutionary Adaptations	8 Mar 25	17 Mar 24	Artificial Kidneys and Bioengineered Organs: The Future of Renal Replacement Therapy	22 Mar 25	24 Mar 24	Neuroendocrine Mechanisms of Aggression in Territorial Animals: How testosterone influences dominance behavior.	29 Mar 25	31 Mar 24
13	RAKHI	Ecological Successions: Mechanisms and Changes in Different Biomes	1 Mar 25	10 Mar 24	Parental Care in Amphibians: Strategies and Evolutionary Significance	8 Mar 25	17 Mar 24	Decline	22 Mar 25	24 Mar 24	The Effect of Environmental Pollution on Pheromone Communication in Insects: Disruptions caused by pesticides and industrial waste.	29 Mar 25	31 Mar 24
14	RIYA NAGAR	Concept of Climax and Stability in Ecosystem Development	1 Mar 25	10 Mar 24	Neoteny in Amphibians: Causes, Mechanisms, and Evolutionary Importance	8 Mar 25	17 Mar 24	Alzheimer's Disease and the Gut-Brain Axis: Recent Research Updates	22 Mar 25	24 Mar 24	Neurobiology of Fear Responses in Prey Animals: A review of how animals detect and escape predators.	29 Mar 25	31 Mar 24

15	SAKSHI	Impact of Climate Change on Indian Ecosystems: A Case Study	1 Mar 25	10 Mar 24	Adaptations of Amphibians to Dual Life: Structural and Functional Aspects	8 Mar 25	17 Mar 24	The Use of Brain-Computer Interfaces (BCI) in Restoring Mobility in Paralysis Patients	22 Mar 25	24 Mar 24	Impact of Endocrine Disruptors on Animal Behaviour: Recent concerns about plastic pollution and hormonal imbalances in aquatic species.	29 Mar 25	31 Mar 24
16	SANJANA GARG	Biogeographical Zones of India: Distribution and Characteristics	1 Mar 25	10 Mar 24	Adaptive Radiation in Reptiles: Evolution of Diverse Body Plans	8 Mar 25	17 Mar 24	Rising Cases of Polycystic Ovary Syndrome (PCOS): Causes, Diagnosis, and Treatment	22 Mar 25	24 Mar 24	Social Structures in Highly Intelligent Animals: Comparative analysis of dolphins, elephants, and primates.	29 Mar 25	31 Mar 24
17	SHIVANGI BHATI	Biodiversity Loss: Major Drivers and Mitigation Strategies	1 Mar 25	10 Mar 24	Comparative Anatomy of Skull in Reptiles: Evolutionary Trends and Functional Adaptations	8 Mar 25	17 Mar 24	Impact of Climate Change on Reproductive Health and Fertility Rates	22 Mar 25	24 Mar 24	Group Living and Disease Transmission in Animals: How social animals manage infections and pandemics.	29 Mar 25	31 Mar 24
18	SHIVANI BHATI	Project Tiger and Biosphere Reserves: Successes and Challenges in India	1 Mar 25	10 Mar 24	Chelonia (Turtles & Tortoises): Evolution, Adaptations, and Conservation Challenges	8 Mar 25	17 Mar 24	Advancements in Male Contraceptive Methods: A Breakthrough in Reproductive Physiology	22 Mar 25	24 Mar 24	Kin Selection and Altruism in Vampire Bats: Recent studies on food sharing and social bonding.	29 Mar 25	31 Mar 24
19	SHWETA	Environmental Impact Assessment (EIA) and Its Role in Sustainable Development	1 Mar 25	10 Mar 24	Flight Adaptation in Birds: Morphological, Anatomical, and Physiological Modifications	8 Mar 25	17 Mar 24	Endocrine Disruptors in Everyday Products: Their Role in Hormonal Imbalances and Diseases	22 Mar 25	24 Mar 24	Social Dominance and Leadership in Animal Groups: Lessons from wolf packs, elephant herds, and primate troops.	29 Mar 25	31 Mar 24
20	TANISHA KAPASIYA	Environmental Auditing (EA) and Management Plans (EMP): Case Studies from India	1 Mar 25	10 Mar 24	Bird Migration: Patterns, Mechanisms, and Evolutionary Significance	8 Mar 25	17 Mar 24	Heatwaves and Their Impact on Human Thermoregulation: Adaptation Strategies	22 Mar 25	24 Mar 24	Effects of Noise Pollution on Bird Song and Communication: How urban noise influences mating calls and territorial signals.	29 Mar 25	31 Mar 24
21	TANU	Global Environmental Change and Its Impact on Biodiversity and Human Health	1 Mar 25	10 Mar 24	Territorial Behavior in Birds: Causes, Benefits, and Ecological Implications	8 Mar 25	17 Mar 24	mRNA Vaccine Technology and Its Future in Immunotherapy Beyond COVID-19	22 Mar 25	24 Mar 24	Impact of Climate Change on Bird Migration Patterns: Analyzing shifts in migratory routes and breeding seasons.	29 Mar 25	31 Mar 24

Prof. (Dr.) Anita Rani Rathore
Principal

Prof. (Dr.) Dinesh C. Sharma HOD-Zoology