



গড়গাঁও মহাবিদ্যালয়

GARGAON COLLEGE



Course Distribution
Department of Zoology
2023-24



Phone: (03772) 252251
www.gargaoncollege.ac.in

**DEPARTMENT OF ZOOLOGY
GARGAON COLLEGE**

ESTD: 1969

Simaluguri - 785686, Sivasagar, Assam

E-mail: deptofzoologygargaoncollege@gmail.com

ODD SEMESETR (2023-2024)



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Course distribution for Odd Semester (2023-2024)

Unit Wise Distribution (Odd Semester, 2023)				
HONOURS				
Semester	Core Title and Code	Unit	Title	Faculty name
1st (Major & Minor) FYUP	Animal Diversity I	Unit 1	Non- Chordates I: Protista, Parazoa and Metazoa	Dr. Anurag Protim Das
		Unit 2	Porifera, Cnidaria and Ctenophora	Dr. Pimily Langthasa
		Unit 3	Platyhelminthes and Nematelminthes	Dr. Anurag Protim Das
		Unit 4	Chordates I Introduction to Chordates & Protochordata	Dr. Rashmi Dutta
		Unit 5	Zoogeographical realms	Dr. Rashmi Dutta
2nd (GEC) (FYUP)	Natural resource management	Unit 1	Natural resources	Dr. Rashmi Dutta
		Unit 2	Sustainable utilization of land and water resources	Dr. Pimily Langthasa Dr. Anurag Protim Das
		Unit 3	Biodiversity	Dr. Rashmi Dutta
		Unit 4	Contemporary practices in resource management	Dr. Pimily Langthasa Dr. Rashmi Dutta Dr. Anurag Protim Das
2nd SEC (FYUP)	Freshwater Aquaculture	Unit 1	Introduction to aquaculturefarming	Dr. Anurag Protim Das
		Unit 2	Rearing of larval..... fish seeds and brooders	Dr. Rina Handique Dr. Anurag Protim Das
		Unit 3	Concept of induced breeding.....doses	Dr. Rashmi Dutta
		Unit 4	Maintenance of fish..... in aquaculture.	Dr. Anurag Protim Das
3rd	Diversity of	Unit 1	Introduction to Chordates	Dr. Anurag Protim



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(CBCS)	Chordates ZC305T			Das
		Unit 2	Proto-chordata	Dr. Anurag Protim Das
		Unit 3	Origin of Chordata	Dr. Anurag Protim Das
		Unit 4	Agnatha	Dr. Anurag Protim Das
		Unit 5	Pisces	Dr. Anurag Protim Das
		Unit 6	Amphibia	Dr. Rashmi Dutta
		Unit 7	Reptilia	Dr. Rashmi Dutta
		Unit 8	Aves	Dr. Rashmi Dutta
		Unit 9	Mammals	Dr. Rashmi Dutta
		Unit 10	Zoogeography	Dr. Anurag Protim Das
	Physiology: Controlling and Coordinating Systems ZC306T	Unit 1	Tissues	Dr. Pimily Langthasa
		Unit 2	Bone and Cartilage	Dr. Pimily Langthasa
		Unit 3	Nervous System	Dr. Pimily Langthasa
		Unit 4	Muscle	Dr. Pimily Langthasa
		Unit 5	Reproductive System	Dr. Pimily Langthasa
		Unit 6	Endocrine System	Dr. Anurag Protim Das
	Fundamentals of Biochemistry ZC307T	Unit 1	Carbohydrates	Dr. Rashmi Dutta
		Unit 2	Lipids	Dr. Rashmi Dutta
		Unit 3	Proteins	Dr. Pimily Langthasa
Unit 4		Nucleic Acids	Dr. Pimily Langthasa	
Unit 5		Enzymes	Dr. Rashmi Dutta	
5th (CBCS)	Molecular Biology ZC511T	Unit 1	Nucleic Acids	Dr. Pimily Langthasa
		Unit 2	DNA Replication	Dr. Pimily Langthasa
		Unit 3	Transcription	Dr. Pimily Langthasa
		Unit 4	Translation	Dr. Pimily Langthasa
		Unit 5	Post Transcriptional Modifications and Processing of Eukaryotic RNA	Dr. Pimily Langthasa



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		Unit 6	Gene Regulation	Dr. Pimily Langthasa
		Unit 7	DNA Repair Mechanisms	Dr. Pimily Langthasa
		Unit 8	Regulatory RNAs	Dr. Pimily Langthasa
	Principles of Genetics ZC512T	Unit 1	Mendelian Genetics and its Extension	Dr. Rashmi Dutta
		Unit 2	Linkage, Crossing Over and Chromosomal Mapping	Dr. Rashmi Dutta
		Unit 3	Mutation	Dr. Pimily Langthasa
		Unit 4	Sex Determination	Dr. Pimily Langthasa
		Unit 5	Extra-chromosomal Inheritance	Dr. Rashmi Dutta
		Unit 6	Polygenic Inheritance	Dr. Rashmi Dutta
		Unit 7	Recombination in Bacteria and Viruses	Dr. Rashmi Dutta
		Unit 8	Transposable Genetic Elements	Dr. Rashmi Dutta
	DSE-1: Animal Behaviour and Chronobiology ZD501T	Unit 1	Introduction	Dr. Anurag Protim Das
		Unit 2	Patterns of Behaviour	Dr. Anurag Protim Das
		Unit 3	Social and Sexual Behaviour	Dr. Anurag Protim Das
		Unit 4	Introduction to Chronobiology	Dr. Anurag Protim Das
		Unit 5	Biological Rhythm	Dr. Anurag Protim Das
		Unit 6	Biological Clocks	Dr. Anurag Protim Das
	DSE-2: Biology of Insecta ZD606T	Unit 1:	Introduction	Dr. Rashmi Dutta
Unit 2:		Insect Taxonomy	Dr. Rashmi Dutta	
Unit 3.		General Morphology of Insects	Dr. Rashmi Dutta	
Unit 4.		Physiology of Insects	Dr. Rashmi Dutta	
Unit 5.		Insect Society	Dr. Rashmi Dutta	



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		Unit 6.	Insect Plant Interaction	Dr. Anurag Protim Das
		Unit 7.	Insects as vectors	Dr. Anurag Protim Das
GENERIC				
Semester	Core course I	Unit	Title	Faculty name
3rd (CBCS)	Human Physiology GEVII	Unit 1	Digestion and Absorption of Food	Dr. Rashmi Dutta
		Unit 2	Functioning of Excitable Tissue (Nerve and Muscle)	Dr. Pimily Langthasa
		Unit 3	Respiratory Physiology	Dr. Rashmi Dutta
		Unit 4	Renal Physiology	Dr. Pimily Langthasa
		Unit 5	Cardio-vascular Physiology	Dr. Anurag Protim Das
		Unit 6	Endocrine and Reproductive Physiology	Dr. Anurag Protim Das
3rd (SEC-I) (CBCS)	Basics of Vermicompost	Unit 1	Introduction.....restore	Dr. Pimily Langthasa
		Unit 2	The species of earth..... evaluation	Dr. Pimily Langthasa
		Unit 3	Biology of Eudrilus..... autoevaluation	Dr. Pimily Langthasa

(Dr. Rina Handique)
Head, Department of Zoology
Gargaon College
Simaluguri-785686



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EVEN SEMESTER (2023-2024)



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Course Distribution for the Even Semester 2024

Unit Wise Distribution (Even Semester, 2023-24)				
HONOURS				
Semester	Course Title and Code	Unit	Title	Faculty name
2nd (Major & Minor) (FYUP)	Animal Diversity II	Unit 1	Non-Chordates: Introduction to Coelomates, Annelida and Arthropods	Dr. Pimily Langthasa Dr. Anurag Protim Das
		Unit 2	Onychophora, Mollusca and Echinodermata	Dr. Rashmi Dutta
		Unit 3	Chordates II Pisces	Dr. Rina Handique Dr. Anurag Protim Das
		Unit 4	Amphibia and Reptilia	Dr. Rashmi Dutta Dr. Anurag Protim Das
		Unit 5	Aves and Mammals	Dr. Rashmi Dutta Dr. Anurag Protim Das
2nd (GEC) (FYUP)	Wildlife Conservation and Management	Unit 1	Introduction to Wildlife	Dr. Pimily Langthasa
		Unit 2	Evaluation and management of wildlife	Dr. Anurag Protim Das
		Unit 3	Management of Habitats	Dr. Anurag Protim Das
		Unit 4	Population estimation	Dr. Rashmi Dutta
		Unit 5	Management planning of wildlife in protected areas	Dr. Pimily Langthasa
		Unit 6	Protected areas	Dr. Rashmi Dutta
2nd (SEC) (FYUP)	Aquarium Fish Keeping	Unit 1	Introduction to Aquarium fish keeping	Dr. Rina Handique
		Unit 2	Biology	Dr. Rashmi Dutta
		Unit 3	Food and feeding	Dr. Anurag Protim Das
		Unit 4	Transportation and maintenance	Dr. Anurag Protim Das
4th (CBCS)	Comparative Anatomy of	Unit 1	Integumentary System	Dr. Rashmi Dutta
		Unit 2	Skeletal System	Dr. Rashmi Dutta



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	Vertebrates ZC408T (CBCS)	Unit 3	Digestive System	Dr. Anurag Protim Das
		Unit 4	Respiratory System	Dr. Anurag Protim Das
		Unit 5	Circulatory System	Dr. Anurag Protim Das
		Unit 6	Urinogenital System	Dr. Rashmi Dutta
		Unit 7	Nervous System	Dr. Anurag Protim Das
		Unit 8	Sense Organs	Dr. Rashmi Dutta
	Physiology: Life Sustaining Systems ZC409T	Unit 1	Physiology of Digestion	Dr. Anurag Protim Das
		Unit 2	Physiology of Respiration	Dr. Pimily Langthasa
		Unit 3	Renal Physiology	Dr. Pimily Langthasa
		Unit 4	Blood	Dr. Rashmi Dutta
		Unit 5	Physiology of Heart	Dr. Rina Handique
	Biochemistry of Metabolic Processes ZC4010T	Unit 1	Overview of Metabolism	Dr. Rashmi Dutta
		Unit 2	Carbohydrate Metabolism	Dr. Rashmi Dutta
		Unit 3	Lipid Metabolism	Dr. Rashmi Dutta
		Unit 4	Protein Metabolism	Dr. Pimily Langthasa
Unit 5		Oxidative Phosphorylation	Dr. Pimily Langthasa	
6th (CBCS)	Developmental Biology ZC613T	Unit 1	Introduction	Dr. Rashmi Dutta
		Unit 2	Early Embryonic Development	Dr. Pimily Langthasa
		Unit 3	Late Embryonic Development	Dr. Pimily Langthasa
		Unit 4	Post Embryonic Development	Dr. Pimily Langthasa
		Unit 5	Implications of Developmental Biology	Dr. Pimily Langthasa
	Evolutionary Biology ZC614T	Unit 1	Life's Beginnings	Dr. Anurag Protim Das
		Unit 2	Historical review of evolutionary concept	Dr. Pimily Langthasa
		Unit 3	Evidences of Evolution	Dr. Anurag Protim Das
		Unit 4	Sources of variations	Dr. Anurag Protim Das



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		Unit 5	Basic concept of Population genetics	Dr. Rashmi Dutta
		Unit 6	Product of evolution	Dr. Anurag Protim Das
		Unit 7	Extinctions	Dr. Pimily Langthasa
		Unit 8	Origin and evolution of man	Dr. Rashmi Dutta
		Unit 9	Phylogenetic trees	Dr. Pimily Langthasa
	Immunology ZD608T	Unit 1	Overview of Immune System	Dr. Rashmi Dutta
		Unit 2	Innate and Adaptive Immunity	Dr. Rashmi Dutta
		Unit 3	Antigens	Dr. Rashmi Dutta
		Unit 4	Immunoglobulins	Dr. Rashmi Dutta
		Unit 5	Major Histocompatibility Complex	Dr. Rashmi Dutta
		Unit 6	Cytokines	Dr. Rashmi Dutta
		Unit 7	Complement System	Dr. Rashmi Dutta
		Unit 8	Vaccines	Dr. Rashmi Dutta
	Fish and Fisheries ZD607T (CBCS)	Unit 1:	Introduction and Classification	Dr. Anurag Protim Das
		Unit 2:	Morphology and Physiology	Dr. Anurag Protim Das
Unit 3.		Fisheries	Dr. Anurag Protim Das	
Unit 4.		Aquaculture	Dr. Rina Handique	
		Unit 5	Fish in research	Dr. Anurag Protim Das

GENERIC

Semester	Course Title and Code	Unit	Title	Faculty name
4 th (CBCS)	Environment And Public Health GE IV	Unit 1	Introduction	Dr. Rashmi Dutta
		Unit 2	Climate Change	Dr. Pimily Langthasa
		Unit 3	Pollution	Dr. Pimily Langthasa
		Unit 4	Waste Management Technologies	Dr. Anurag Protim Das
		Unit 5	Diseases	Dr. Anurag Protim Das



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4th SEC II (CBCS)	Vermicompost Technology	Unit 1	Small scale.....harvest and processing	Dr. Pimily Langthasa
		Unit 2	Nutritional compositionauto-evaluation	Dr. Pimily Langthasa
		Unit 3	Key identification.... And separation	Dr. Pimily Langthasa

(Dr. Rina Handique)
Head, Department of Zoology
Gargaon College
Simaluguri-785686