

# YOGODA SATSANGA PALPARA MAHAVIDYALAYA

## DEPARTMENT OF ZOOLOGY

TEACHING PLAN*YEAR : 2022-2023*General					
Semester	Paper	Unit/Module	Teacher	No of Lectur e	To be completed by
Semester-I	DSC1AT Animal Diversity	Unit 1: Kingdom protista	Mr.Ayan	06	1 <sup>st</sup> Month
		Unit 4: phylum Platyhelminthes	Kumar	04	1 <sup>st</sup> Month
		Unit 5: Phylum Nematelminthes	Bhunias	05	1 <sup>st</sup> & 2 <sup>nd</sup> Month
		Unit 10: Protochordates		05	2 <sup>nd</sup> Month
		Unit 11: Agnatha		05	3 <sup>rd</sup> Month
		Unit 13: Amphibia		05	4 <sup>th</sup> Month
Semester-I		Unit 15: Aves		05	4 <sup>th</sup> Month
		Unit 6: Phylum Annelida	Mr.	10	1 <sup>st</sup> Month
		Unit 7: Phylum Arthropoda	Supravat	12	2 <sup>nd</sup> Month
		Unit 14: Reptiles	Maiti	10	3 <sup>rd</sup> Month
		Unit 17: Mammals		12	4 <sup>th</sup> Month
		Unit 2: Phylum Porifera	Miss.	08	1 <sup>st</sup> Month
Semester-I	DSC1AP Animal Diversity( Lab)	Unit 3: Phylum Cnidaria	Puja	10	1 <sup>st</sup> & 2 <sup>nd</sup> Month
		Unit 8: Phylum Mollusca	Panda	10	2 <sup>nd</sup> & 3 <sup>rd</sup> Month
		Unit 9: Phylum Echinodermata		08	3 <sup>rd</sup> Month
		Unit 12: Pisces		12	3 <sup>rd</sup> & 4 <sup>th</sup> month
		1.Study of Non chordate museums specimens	Mr. Ayan kumar	05	1 <sup>st</sup> & 2 <sup>nd</sup> Month
		2. Study of permanent slides	Bhunias	04	2 <sup>nd</sup> & 3 <sup>rd</sup> Month
Semester-II	DSC1BT Comparative Anatomy & Developmental Biology	3.Identification of poisonous & non-poisonous snakes		04	3 <sup>rd</sup> & 4 <sup>th</sup> Month
		Unit 1: Integumentary System	Mr. Ayan	08	1 <sup>st</sup> Month
		Unit 5: Circulatory System	Kumar	10	1 <sup>st</sup> & 2 <sup>nd</sup> Month
		Unit 9: Early Embryonic Development	Bhunias	09	2 <sup>nd</sup> & 3 <sup>rd</sup> Month
		Unit 10: Late Embryonic Development		08	4 <sup>th</sup> Month
		Unit 2: Skeletal System	Mr.	12	1 <sup>st</sup> Month
	Unit 4: Respiratory System	Supravat	10	2 <sup>nd</sup> Month	
	Unit 8: Sense Organs	Maiti	08	2 <sup>nd</sup> & 3 <sup>rd</sup> Month	
	Unit 11: Control of Development		09	3 <sup>rd</sup> & 4 <sup>th</sup> Month	

		Unit 3: Digestive System Unit 6: Urinogenital System Unit 7: Nervous System	Miss. Puja Panda	12 12 12	1 <sup>st</sup> & 2 <sup>nd</sup> Month 3 <sup>rd</sup> Month 4 <sup>th</sup> Month
	DSC1BP Comparative Anatomy & Developmental Biology (Lab)	1. Osteology: a) Disarticulated skeleton of fowl and rabbit b) Carapace and plastron of turtle /tortoise Mammalian skulls: One herbivorous and one carnivorous animal 2.Frog - Study of developmental stages	Mr. Ayan Kumar Bhunia	09     05	1 <sup>st</sup> & 2 <sup>nd</sup> Month     3 <sup>rd</sup> & 4 <sup>th</sup> Month
		3.Study of the different types of placenta 5.Examination of gametes - frog/rat	Mr. Supravat Maiti	05  04	1 <sup>st</sup> & 2 <sup>nd</sup> Month  3 <sup>rd</sup> & 4 <sup>th</sup> Month
		4.Study of placental development in humans by ultrasound scans	Miss. Puja Panda	09	1 <sup>st</sup> to 4 <sup>th</sup> Month
Semester-III	DSC1CT Physiology & Biochemistry	Unit 5: Cardiovascular system Unit 6: Reproduction and Endocrine Glands Unit 9: Protein metabolism	Mr. Ayan Kumar Bhunia	12 08 10	1 <sup>st</sup> & 2 <sup>nd</sup> Month 2 <sup>nd</sup> & 3 <sup>rd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
		Unit 3: Respiration Unit 7: Carbohydrate Metabolism Unit 8: Lipid Metabolism	Mr. Supravat Maiti	10 14 12	1 <sup>st</sup> & 2 <sup>nd</sup> Month 2 <sup>nd</sup> & 3 <sup>rd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
		Unit 1: Nerve and muscle Unit 2: Digestion Unit 4: Excretion Unit 10: Enzymes	Miss. Puja Panda	06 04 05 05	1 <sup>st</sup> Month 2 <sup>nd</sup> Month 3 <sup>rd</sup> Month 4 <sup>th</sup> Month
	DSC1CP Physiology & Biochemistry (Lab)	1.Preparation of hemin and hemochromogen crystals 2.Study of permanent histological sections of mammalian pituitary, thyroid,pancreas, adrenal gland 5.Estimation of total protein in	Mr.Ayan Kumar Bhunia	07 05  06	1 <sup>st</sup> Month 2 <sup>nd</sup> Month  3 <sup>rd</sup> Month

		given solutions by Lowry's method			
		4. Qualitative tests to identify functional groups of carbohydrates	Mr. Supravat Maiti	12	1 <sup>st</sup> & 2 <sup>nd</sup> Month
		3. Study of permanent slides of spinal cord, duodenum, liver, lung, kidney, bone, cartilage	Miss. Puja Panda	06	1 <sup>st</sup> Month
		6. Study of activity of salivary amylase under optimum conditions		06	2 <sup>nd</sup> & 3 <sup>rd</sup> Month
	SEC-1 Apiculture	Unit 1: Biology of Bees Unit 2: Rearing of Bees Unit 3: Diseases and Enemies Unit 4: Bee Economy Unit 5: Entrepreneurship in Apiculture	Miss. Puja Panda	03	1 <sup>st</sup> Month
				04	1 <sup>st</sup> & 2 <sup>nd</sup> Month
				04	2 <sup>nd</sup> Month
				03	2 <sup>nd</sup> & 3 <sup>rd</sup> Month
				04	4 <sup>th</sup> Month
Semester-IV	DSC1DT Genetics & Evolutionary Biology	Unit 1: Introduction to Genetics Unit 2: Mendelian Genetics and its Extension Unit 3: Linkage, Crossing Over and Chromosomal Mapping Unit 4: Mutations	Mr. Ayan Kumar Bhunia	06	1 <sup>st</sup> Month
				10	2 <sup>nd</sup> Month
				07	3 <sup>rd</sup> Month
				09	4 <sup>th</sup> Month
		Unit 6: History of Life Unit 7: Introduction to Evolutionary Theories Unit 9: Processes of Evolutionary Change Unit 12: Extinction	Mr. Supravat Maiti	08	1 <sup>st</sup> Month
		10		2 <sup>nd</sup> Month	
		12		3 <sup>rd</sup> Month	
	Unit 5: Sex Determination Unit 8: Direct Evidences of Evolution Unit 10: Species Concept Unit 11: Macro-evolution	Miss. Puja Panda	09	1 <sup>st</sup> Month	
	07		2 <sup>nd</sup> Month		
	DSC1DP Genetics & Evolutionary Biology(Lab)	1. Study of Mendelian inheritance and gene interactions (Non-Mendelian inheritance) Using suitable examples. Verify the results using Chi-square test	Mr. Ayan Kumar Bhunia	06	1 <sup>st</sup> & 2 <sup>nd</sup> Month

		2.Study of Linkage, recombination, gene mapping using the data 7.Visit to Natural History Museum and submission of report		06 09	2 <sup>nd</sup> & 3 <sup>rd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
		3. Study of Human Karyotypes (normal and abnormal).	Mr. Supravat Maiti	09	1 <sup>st</sup> & 2 <sup>nd</sup> Month
		4.Study of fossil evidences from plaster cast models and pictures 5.Study of homology and analogy from suitable specimens/ pictures Charts: a.Phylogeny of horse with diagram b.Darwin Finches with diagram	Mr. Puja panda	09 09	1 <sup>st</sup> & 2 <sup>nd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
Semester-V	DSE-1T Applied Zoology	Unit 4: Parasitic Protozoa Unit 5: Parasitic Helminthes Unit 8: Animal Husbandry	Mr. Ayan Kumar Bhunia	09 08 10	1 <sup>st</sup> Month 2 <sup>nd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
		Unit 1: Introduction to Host-parasite Relationship Unit 2: Epidemiology of Diseases Unit 3: Rickettsiae and Spirochaetes Unit 9: Poultry Farming	Mr. Supravat Maiti	08 07 09 08	1 <sup>st</sup> Month 2 <sup>nd</sup> Month 3 <sup>rd</sup> Month 4 <sup>th</sup> Month
		Unit 6: Insects of Economic Importance Unit 7: Insects of Medical Importance Unit 10: Fish Technology	Mr. Puja Panda	08 12 10	1 <sup>st</sup> Month 2 <sup>nd</sup> & 3 <sup>rd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
	DSE-1P Applied Zoology(Lab)	1.Study of different parasites through permanent slides 2.Study of arthropod vectors associated with human diseases	Mr. Ayan Kumar Bhunia	09 12	1 <sup>st</sup> Month 2 <sup>nd</sup> & 3 <sup>rd</sup> Month
		3. Study of insect damage to different plant parts/stored	Mr. Supravat	09	1 <sup>st</sup> Month

		grains through damaged products/photographs. 5.Visit to poultry farm or animal breeding centre	Maiti	09	3 <sup>rd</sup> & 4 <sup>th</sup> Month
		4. Identifying feature and economic importance 6. Maintenance of freshwater aquarium	Miss. Puja Panda	09 12	2 <sup>nd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
Semester-VI	DSE-2T Insect, Vector & Diseases	Unit I: Introduction to Insects Unit II: Concept of Vectors Unit II: Concept of Vectors	Mr. Ayan Kumar Bhunia	09 08 10	1 <sup>st</sup> Month 2 <sup>nd</sup> month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
		Unit IV: Dipteran as Disease Vectors Unit VII: Hemiptera as Disease Vectors	Mr. Supravat Maiti	15 15	1 <sup>st</sup> & 2 <sup>nd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
		Unit V: Siphonaptera as Disease Vectors Unit VI: Siphunculata as Disease Vectors	Miss. Puja Panda	06 05	1 <sup>st</sup> Month 2 <sup>nd</sup> & 3 <sup>rd</sup> Month
	DSE-2P Insect, Vector & Diseases(Lab)	1. Study of different kinds of mouth parts of insects 2. Study of insect vectors through permanent slides/ photographs	Mr. Ayan Kumar Bhunia	12 12	1 <sup>st</sup> & 2 <sup>nd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month
		4. Submission of a project report on any one of the insect vectors and disease transmitted	Mr. Supravat Maiti	06	1 <sup>st</sup> & 2 <sup>nd</sup> Month
		3. Study of different diseases transmitted by insect vectors	Miss. Puja Panda	09	2 <sup>nd</sup> & 3 <sup>rd</sup> Month
	SEC-4 Sericulture	Unit 1: Introduction to Sericulture Unit 2: Biology of Silkworm Unit 3: Rearing of Silkworms Unit 4: Pests and Diseases Unit 5: Entrepreneurship in Sericulture	Mss. Puja Panda	05 07 06 06 05	1 <sup>st</sup> Month 2 <sup>nd</sup> Month 3 <sup>rd</sup> Month 3 <sup>rd</sup> & 4 <sup>th</sup> Month 4 <sup>th</sup> Month