

YOGODA SATSANGA PALPARA MAHAVIDYALAYA

DEPARTMENT OF ZOOLOGY

TEACHING PLAN*YEAR : 2019-2020*General					
Semester	Paper	Unit/Module	Teacher	No of Lecture	To be completed by
Semester-I	DSC1AT Animal Diversity	Unit 1: Kingdom protista	Dr. Asit Kr. Bhattacharyya	06	1 st Month
		Unit 3: Phylum Cnidaria		10	1 st & 2 nd Month
		Unit 7: Phylum Arthropoda		12	3 rd Month
		Unit 15: Aves		05	4 th Month
		Unit 4: phylum Platyhelminthes	Mr.Ayan Kumar Bhunia	04	1 st Month
	Unit 5: Phylum Nemathelminthes	05		1 st & 2 nd Month	
	Unit 10: Protochordates	05		2 nd Month	
	Unit 11: Agnatha	05		3 rd Month	
	Unit 13: Amphibia	05	4 th Month		
	Unit 6: Phylum Annelida	Mr. Supravat Maiti	10	1 st Month	
Unit 14: Reptiles	12		2 nd Month		
Unit 17: Mammals	10		3 rd Month		
Unit 2: Phylum Porifera	Miss. Puja Panda	08	1 st Month		
Unit 8: Phylum Mollusca		10	2 nd & 3 rd Month		
Unit 9: Phylum Echinodermata		08	3 rd Month		
Unit 12: Pisces		12	3 rd & 4 th month		
DSC1AP Animal Diversity (Lab)	1.Study of Non chordate museums specimens	Dr. Asit Kr. Bhattacharyya	12	1 st & 2 nd Month	
	2. Study of permanent slides		Mr. Ayan kumar Bhunia	04	2 nd & 3 rd Month
	3.Identification of poisonous & non-poisonous snakes		04	3 rd & 4 th Month	
Semester-II	DSC1BT Comparative Anatomy & Developmental Biology	Unit 1: Integumentary System	Dr. Asit Kr. Bhattacharyya	08	1 st Month
		Unit 2: Skeletal System		12	2 nd Month
		Unit 7: Nervous System		12	3 rd & 4 th Month
		Unit 5: Circulatory System	Mr. Ayan Kumar Bhunia	10	1 st & 2 nd Month
		Unit 9: Early Embryonic Development		09	2 nd & 3 rd Month
Unit 10: Late Embryonic Development	08	4 th Month			

		Unit 4: Respiratory System Unit 8: Sense Organs Unit 11: Control of Development	Mr. Supravat Maiti	10 08 09	1 st Month 2 nd & 3 rd Month 3 rd & 4 th Month
		Unit 3: Digestive System Unit 6: Urinogenital System	Miss. Puja Panda	12 12	1 st & 2 nd Month 3 rd 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	Dr. Asit Kr. Bhattacharyya	12	1 st & 2 nd Month
		2.Frog - Study of developmental stages	Mr. Ayan Kumar Bhunia	06	3 rd & 4 th Month
		3.Study of the different types of placenta 5.Examination of gametes - frog/rat	Mr. Supravat Maiti	06 03	1 st & 2 nd Month 3 rd & 4 th Month
		4.Study of placental development in humans by ultrasound scans	Miss. Puja Panda	09	1 st to 4 th Month
Semester-III	DSC1CT Physiology & Biochemistry	Unit 1: Nerve and muscle Unit 2: Digestion Unit 3: Respiration	Dr. Asit Kr. Bhattacharyya	08 06 10	1 st Month 2 nd Month 2 nd & 3 rd Month
		Unit 5: Cardiovascular system Unit 6: Reproduction and Endocrine Glands Unit 9: Protein metabolism	Mr. Ayan Kumar Bhunia	12 08 10	1 st & 2 nd Month 2 nd & 3 rd Month 3 rd & 4 th Month
		Unit 7: Carbohydrate Metabolism Unit 8: Lipid Metabolism	Mr. Supravat Maiti	10 14	1 st & 2 nd Month 2 nd & 3 rd Month
		Unit 4: Excretion Unit 10: Enzymes	Miss. Puja Panda	04 05	2 nd Month 3 rd Month
	DSC1CP Physiology & Biochemistry (Lab)	2.Study of permanent histological sections of mammalian pituitary, thyroid,pancreas, adrenal gland 3.Study of permanent slides of spinal cord, duodenum, liver,	Dr. Asit Kr. Bhattacharyya	06 06	1 st Month 2 nd Month

		lung, kidney, bone, cartilage			
		1. Preparation of hemin and hemochromogen crystals 5. Estimation of total protein in given solutions by Lowry's method	Mr. Ayan Kumar Bhunia	07 06	1 st Month 3 rd Month
		4. Qualitative tests to identify functional groups of carbohydrates	Mr. Supravat Maiti	12	1 st & 2 nd Month
		6. Study of activity of salivary amylase under optimum conditions	Miss. Puja Panda	06	2 nd Month
	SEC-1 Apiculture	Unit 1: Biology of Bees Unit 2: Rearing of Bees Unit 3: Diseases and Enemies	Dr. Asit Kr. Bhattacharyya	03 04 04	1 st Month 1 st & 2 nd Month 2 nd Month
		Unit 4: Bee Economy Unit 5: Entrepreneurship in Apiculture	Miss. Puja Panda	03 04	2 nd & 3 rd Month 4 th Month
Semester-IV	DSC1DT Genetics & Evolutionary Biology	Unit 1: Introduction to Genetics Unit 6: History of Life Unit 10: Species Concept	Dr. Asit Kr. Bhattacharyya	06 08 04	1 st Month 2 nd Month 3 rd Month
		Unit 2: Mendelian Genetics and its Extension Unit 3: Linkage, Crossing Over and Chromosomal Mapping Unit 4: Mutations	Mr. Ayan Kumar Bhunia	10 07 09	1 st Month 2 nd Month 3 rd Month
		Unit 7: Introduction to Evolutionary Theories Unit 9: Processes of Evolutionary Change Unit 12: Extinction	Mr. Supravat Maiti	10 12 08	1 st Month 2 nd Month 3 rd Month
		Unit 5: Sex Determination Unit 8: Direct Evidences of Evolution Unit 11: Macro-evolution	Miss. Puja Panda	09 07 08	1 st Month 2 nd Month 3 rd Month
		Unit 1: Introduction to Genetics Unit 6: History of Life Unit 10: Species Concept	Dr. Asit Kr. Bhattacharyya	06 08 04	1 st Month 2 nd Month 3 rd Month
	DSC1DP Genetics & Evolutionary Biology(Lab)	4. Study of fossil evidences from plaster cast models and pictures 7. Visit to Natural History Museum and submission of report	Dr. Asit Kr. Bhattacharyya	09 06	1 st & 2 nd Month 3 rd Month

		1. Study of Mendelian inheritance and gene interactions (Non-Mendelian inheritance) Using suitable examples. Verify the results using Chi-square test 2. Study of Linkage, recombination, gene mapping using the data	Mr. Ayan Kumar Bhunia	06 06	1 st & 2 nd Month 2 nd & 3 rd Month
		3. Study of Human Karyotypes (normal and abnormal).	Mr. Supravat Maiti	09	1 st & 2 nd Month
		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	1 st & 2 nd Month
Semester-V	DSE-1T Applied Zoology	Unit 1: Introduction to Host-parasite Relationship Unit 2: Epidemiology of Diseases Unit 6: Insects of Economic Importance	Dr. Asit Kr. Bhattacharyya	08 08 09	1 st Month 2 nd Month 3 rd Month
		Unit 4: Parasitic Protozoa Unit 5: Parasitic Helminthes Unit 8: Animal Husbandry	Mr. Ayan Kumar Bhunia	09 08 10	1 st Month 2 nd Month 3 rd & 4 th Month
		Unit 3: Rickettsiae and Spirochaetes Unit 9: Poultry Farming	Mr. Supravat Maiti	08 07	1 st Month 2 nd Month
		Unit 7: Insects of Medical Importance Unit 10: Fish Technology	Mr. Puja Panda	08 12	1 st Month 2 nd & 3 rd Month
	DSE-1P Applied Zoology(Lab)	1. Study of different parasites through permanent slides 5. Visit to poultry farm or animal breeding centre	Dr. Asit Kr. Bhattacharyya	09 09	2 nd Month 3 rd & 4 th Month
		2. Study of arthropod vectors associated with human diseases	Mr. Ayan Kumar Bhunia	09	1 st Month
		3. Study of insect damage to different plant parts/stored grains through damaged products/photographs.	Mr. Supravat Maiti	09	1 st Month
		4. Identifying feature and economic importance 6. Maintenance of freshwater aquarium	Miss. Puja Panda	09 12	2 nd Month 3 rd & 4 th Month

Semester-VI	DSE-2T Insect, Vector & Diseases	Unit I: Introduction to Insects Unit V: Siphonaptera as Disease Vectors	Dr. Asit Kr. Bhattacharyya	09 08	1 st Month 2 nd month
		Unit II: Concept of Vectors Unit III: Insect as a Vectors	Mr. Ayan Kumar Bhunia	08 10	1 st & 2 nd Month 3 rd Month
		Unit IV: Dipteran as Disease Vectors Unit VII: Hemiptera as Disease Vectors	Mr. Supravat Maiti	15 15	1 st & 2 nd Month 3 rd & 4 th Month
		Unit VI: Siphunculata as Disease Vectors	Miss. Puja Panda	06	1 st 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
		4.Submission of a project report on any one of the insect vectors and disease transmitted	Mr. Supravat Maiti	06	1 st & 2 nd Month
		3.Study of different diseases transmitted by insect vectors	Miss. Puja Panda	09	2 nd & 3 rd Month
	SEC-4 Sericulture	Unit 1: Introduction to Sericulture Unit 2: Biology of Silkworm Unit 3: Rearing of Silkworms	Dr. Asit Kr. Bhattacharyya	05 07 06	2 nd Month 3 rd Month 4 th Month
		Unit 4: Pests and Diseases Unit 5: Entrepreneurship in Sericulture	Mss. Puja Panda	06 05	3 rd & 4 th Month 4 th Month