

Siddhinath Mahavidyalaya

Department of Zoology

Teaching plan of Session 2020-2021

SEM- 1st Paper- GE-1T & GE-1P

Unit / Module	Teacher	No of lectures	To be completed by
Unit-1 Introduction	Pabitra Goswami	02	Tentatively 2 months
Unit-2 Techniques in Gene Manipulation		15	
Lab-1 Preparation of culture media		03	
Lab-2 Packing & sterilization of glass & plastic wares for cell culture		03	
Unit-3 Animal cell culture		09	
Lab-3 Preparation of genomic DNA from E.coli		03	
Lab-4 Plasmid DNA isolation using Agarose gel electrophoresis	Pabitra Goswami	03	Tentatively 2 months
Unit-4 Fermentation		08	
Lab-5 Restriction digestion of lamda DNA using EcoRI & HindIII		03	
Lab-6 Western Blot technique		03	
Unit-5 Transgenic Animal Technology		06	
Lab-7 Southern Hybridization		03	
Lab-8 DNA Fingerprinting, PCR technique		05	
Unit-6 Application in Health		06	
Unit-7 Bio safety Physical & Biological containment		04	

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SEM- 2nd Paper- GE-2T & GE-2P

Unit / Module	Teacher	No of lectures	To be completed by
Unit-1 Protista	Pabitra Goswami	03	Tentatively 2 months
Unit-2 Porifera		03	
Lab-1 Study of Specimens (Non Chordates)		05	
Unit-3 Radiata		03	
Unit-4 Acoelomates		02	
Unit-5 Pseudocoelomates		03	
Unit-6 Annelida	Pabitra Goswami	03	Tentatively 2 months
Unit-7 Arthropoda		04	
Lab-2 Study of Specimens (Chordates)		05	
Unit-8 Mollusca		04	
Unit-9 Echinodermata		04	
Unit-10 Protochordata		02	
Lab-3 Study of Permanent Slides		04	
Unit-11 Pisces		03	
Lab-4 Temporary Mount of several samples.		05	
Unit-12 Amphibia		04	
Unit-13 Reptilia		04	
Lab-5 Dissections of Cockroach		07	
Unit-14 Aves		04	
Unit-15 Mammalia		04	

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SEM- 5th Paper- DSE-1T & DSE-1P

Unit / Module	Teacher	No of lectures	To be completed by
Unit-1 Introduction to Host-Parasite Relationship	Pabitra Goswami	10	Tentatively 2 months
Lab-1 Study of Permanent slides (Part 1)		04	
Unit-2 Epidemiology of Diseases		10	
Lab-2 Study of Permanent slides (Part 2)		04	
Unit-3 Rickettsiae and Spirochaetes		08	
Lab-3 Study of Arthropod vectors		06	
Unit-4 Parasitic Protozoa	Pabitra Goswami	08	Tentatively 3 months
Lab-4 Identifying Features of several parasites		04	
Unit-5 Parasitic Helminthes		08	
Lab-5 Study of insects damage to different plant parts		04	
Lab-6 Maintenance of Freshwater aquarium		03	
Unit-6 Insects of Economic Importance		07	
Unit-7 Insects of Medical Importance		10	
Lab-7 Submission of project Report		04	
Unit-8 Animal Husbandry		08	
Unit-9 Poultry Farming		10	
Unit-10 Fish Technology	10		

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SEM-6TH Paper- DSE-2T & DSE-2P

Unit / Module	Teacher	No of lectures	To be completed by
Unit-I Introduction to Insects	Pabitra Goswami	03	Tentatively 2 months
Lab-1 Study of different kinds of mouth parts of insects.		02	
Unit-II Concept of Vectors		08	
Unit-III Insects as Vectors		07	
Lab-2 Study of several insect vectors through photograph / permanent slides (Part -1).		04	
Unit-IV Dipterans as Disease Vectors	Pabitra Goswami	11	Tentatively 2 months
Lab-3 Study of several insect vectors through photograph / permanent slides (Part-2)		04	
Lab-4 Study of different diseases transmitted by insect vectors (Part-1).		04	
Unit-V Siphonaptera as Disease Vectors		04	
Lab-5 Study of different diseases transmitted by insect vectors (Part-2).		04	
Unit-VI Siphunculata as Disease Vectors		05	
Unit-VII Hemiptera as Disease Vectors		03	
Lab-6 Project report on insect vectors.		03	

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SEM- 1st Paper- CC-1T & CC-1P

Unit / Module	Teacher	No of lectures	To be completed by
Unit-1 Kingdom Protista	Pabitra Goswami	08	Tentatively 2 months
Lab-1 Study of specimens (Part 1)		10	
Unit-2 Phylum Porifera		08	
Lab-2 Study of specimens (Part 2)		10	
Unit-3 Phylum Cnidaria		08	
Lab-3 T.S of Sycon		03	
Unit-4 Phylum Platyhelminthes	Pabitra Goswami	08	Tentatively 3 months
Lab-4 L.S of Sycon		03	
Unit-5 Phylum Nemathelminthes		08	
Lab-5 Study of stages of Taenia		05	
Lab-6 T.S of male & female Ascaris		04	
Unit-6 Phylum Annelida		08	
Unit-7 Phylum Arthropoda		08	
Unit-8 Phylum Mollusca		06	
Unit-9 Phylum Echinodermata		08	
Unit-10 Protochordates		06	
Lab-7 Key for identification of poisonous and non-poisonous snakes		05	
Unit-11 Agnatha		04	
Unit-12 Pisces		06	
Unit-13 Amphibia		07	
Unit-14 Reptiles		10	
Unit-15 Aves		08	
Unit-16 Mammals	08		

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SEM- 2nd Paper- CC-2T & CC-2P

Unit / Module	Teacher	No of lectures	To be completed by
Unit-1 Integumentary System	Pabitra Goswami	08	Tentatively 2 months
Lab-1 Osteology (Part 1)		03	
Unit-2 Skeletal System		08	
Lab-2 Osteology (Part 2)		03	
Unit-3 Digestive System		08	
Lab-3 Osteology (Part 3)		03	
Unit-4 Respiratory System	Pabitra Goswami	08	Tentatively 3 months
Lab-4 Study of developmental stages of Frog		06	
Unit-5 Circulatory System		08	
Lab-5 Study of different types of placenta		06	
Lab-6 Study of placental development in humans by ultrasound scans		06	
Unit-6 Urinogenital System		08	
Unit-7 Nervous System		08	
Unit-8 Sense Organs		08	
Unit-9 Early Embryonic Development (Part 1)		10	
Unit-9 Early Embryonic Development (Part 2)		10	
Lab-7 Examination of Gametes of Frog		05	
Unit-10 Late Embryonic Development		10	
Lab-8 Examination of Gametes of Rat		06	
Unit-11 Control of Development		12	