

Siddhinath Mahavidyalaya

Department of Zoology

Teaching plan of Session 2021-2022

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- 3rd Paper- CC-3T & CC-3P

Unit / Module	Teacher	No of lectures	To be completed by
Unit-1 Nerve and Muscle	Pabitra Goswami	10	Tentatively 2 months
Lab-1 Preparation of hemin & hemochromogen crystals		03	
Unit-2 Digestion		08	
Lab-2 Study of permanent slides (Part 1)		03	
Unit-3 Respiration		08	
Lab-3 Study of permanent slides (Part 2)		03	
Unit-4 Excretion	Pabitra Goswami	08	Tentatively 3 months
Lab-4 Qualitative test (Part 1)		03	
Unit-5 Cardiovascular System		08	
Lab-5 Qualitative test (Part 2)		03	
Lab-6 Study of permanent histological sections (Part 1)		03	
Unit-6 Reproduction & Endocrine Glands		12	
Unit-7 Carbohydrate Metabolism		10	
Lab-7 Study of permanent histological sections (Part 2)		04	
Unit-8 Lipid Metabolism		08	
Unit-9 Protein Metabolism		08	
Lab-8 Estimation of total protein in given solutions by Lowry's method.		05	
Unit-10 Enzymes		10	
Lab-9 Study of activity of salivary amylase under optimum conditions		05	

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SEM- 4th Paper- CC-4T & CC-4P

Unit / Module	Teacher	No of lectures	To be completed by
Unit-1 Introduction to Genetics	Pabitra Goswami	10	Tentatively 2 months
Lab-1 Study of Mendelian Inheritance & Gene interactions (Part 1)		04	
Unit-2 Mendelian Genetics & its Extension		10	
Lab-2 Study of Mendelian Inheritance & Gene interactions (Part 2)		04	
Unit-3 Linkage, Crossing Over & Mapping		12	
Lab-3 Study of linkage, mapping etc		06	
Unit-4 Mutations	Pabitra Goswami	08	Tentatively 3 months
Lab-4 Study of human karyotypes		04	
Unit-5 Sex Determination		08	
Lab-5 Study of fossil evidences from model		04	
Lab-6 Study of homology from pictures		03	
Unit-6 History of Life		07	
Unit-7 Introduction to Evolutionary Theories		10	
Lab-7 Study of analogy		04	
Unit-8 Direct Evidences of Evolution		08	
Unit-9 Processes of Evolutionary Change		10	
Lab-8 Study of Charts		05	
Unit-10 Species Concept		10	
Lab-9 Submission of Project Report	05		
Unit-11 Macro-evolution	10		
Unit-12 Extinction	10		