

Department of Botany
Teaching plan on
Academic Year 2022-2023

Semester I	B.Sc General	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
		DSC 1AT& DSC 1CP			
		Biodiversity (Microbes, Algae, Fungi &Archaeogoniate)			
		Unit 1 Microbes	Mrs. Sayanti Bagchi	4	8 days
		Unit 2 Algae	Mrs. Sayanti Bagchi	4	8 Days
		Unit 3 Fungi	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 4 Introduction to Archegoniate	Mr. Sawmen Kr. Ghorai	2	2 Days
		Unit 5 Bryophytes	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 6 Pteridophytes	Mrs. Sayanti Bagchi	4	8 Days
		Unit 7 Gymnosperms	Mrs. Sayanti Bagchi	4	8 Days

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	B.Sc Honours	GE 1T & GE 1P Biodiversity (Microbes, Algae, Fungi &Archaeogoniate)			
		Unit 1 Microbes	Mrs. Sayanti Bagchi	4	8 days
		Unit 2 Algae	Mrs. Sayanti Bagchi	4	8 Days
		Unit 3 Fungi	Mr. Sawmen Kr. Ghorai	4	8 days
		Unit 4 Introduction to Archegoniate	Mr. Sawmen Kr. Ghorai	2	8 Days
		Unit 5 Bryophytes	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 6 Pteridophytes	Mrs. Sayanti Bagchi	4	8 Days
		Unit 7 Gymnosperms	Mrs. Sayanti Bagchi	4	8 Days
Semester II	B.Sc General	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within

		DSC 1B & DSC 1BP Plant Ecology & Taxonomy			
		Unit 1 Introduction	Mrs. Sayanti Bagchi	4	8 Days
		Unit 2 Ecological Factors	Mrs. Sayanti Bagchi	4	8 Days
		Unit 3			

		Plant Communities	Mrs. Sayanti Bagchi	4	8 Days
		Unit 4 Ecosystem	Mrs. Sayanti Bagchi	4	8 Days
		Unit 5 Phytogeography	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 6 Introduction to Plant Taxonomy	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 7 Identification	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 8 Taxonomic evidences from palynology, cytology, phytochemistry and molecular data.	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 9 Taxonomic hierarchy	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 10 Botanical Nomenclature	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 11 Classification		4	8 Days
		Unit 12 Biometrics, numerical taxonomy and cladistics	Mrs. Sayanti Bagchi	4	8 Days
		GE 2T & GE 2P		4	8 Days

	B.Sc Honours	Plant Ecology & Taxonomy	Mrs. Sayanti Bagchi		8 Days
		Unit 1 Introduction		4	
		Unit 2 Ecological Factors	Mrs. Sayanti Bagchi	4	8 Days
		Unit 3 Plant Communities	Mrs. Sayanti Bagchi	4	8 Days
		Unit 4 Ecosystem	Mrs. Sayanti Bagchi	4	8 Days
		Unit 5 Phytogeography	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 6 Introduction to Plant Taxonomy	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 7 Identification	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 8 Taxonomic evidences from palynology, cytology, phytochemistry and molecular data.	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 9 Taxonomic hierarchy	Mr. Sawmen Kr. Ghorai	4	8 Days
		Unit 10 Botanical Nomenclature	Mr. Sawmen Kr. Ghorai	4	8 Days
	Unit 11	Ghorai			

		Classification Unit 12 Biometrics, numerical taxonomy and cladistics	Mrs. Sayanti Bagchi	4 4	8 Days 8 Days
Semester II	B.Sc General SEC	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
		SEC-2: Mushroom Culture Technology Unit-1 Introduction and history Unit-2 Cultivation Technology Unit-3 Storage and nutrition Unit-4 Food Preparation	Mrs. Sayanti Bagchi Mrs. Sayanti Bagchi Sawmen Kr. Ghorai Sawmen Kr. Ghorai	3 3 4 3	6 Days 6 Days 8 Days 6 Days
Semester III	B.Sc General	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
		DSC-1C(CC-3) Unit 1: Meristematic and permanent tissues	Mrs. Sayanti Bagchi	4	8 days 6 days

		U nit 2: Organs	Mrs. Sayanti Bagchi	3	
		Unit 3: Secondary Growth	Mrs. Sayanti Bagchi	5	10 days
		U nit 4: Adaptive and protective systems	Mrs. Sayanti Bagchi	4	8 days
		Unit 5: Structural organization of flower	Mrs. Sayanti Bagchi	5	10 days
		Unit 6: Pollination and fertilization	Sawmen Kr. Ghorai	5	10 days
		Unit 7: Embryo and endosperm	Sawmen Kr. Ghorai	4	8 days
		Unit 8: Apomixis and polyembryony	Sawmen Kr. Ghorai	3	6 days
Semester III	B.Sc Honours	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
		GE 3T & GE 3P			
		Unit 1: Origin of Cultivated Plants	Sawmen Kr. Ghorai	4	8 days
		Unit 2: Cereals	Sawmen Kr. Ghorai	3	6 days
		U nit 3: Legumes	Sawmen Kr. Ghorai	3	6 days
		U nit 4: Spices	Sawmen Kr. Ghorai	4	8 days
		U nit 5: Beverages	Sawmen Kr. Ghorai	2	4 days
		U nit 6: Oils and Fats	Mrs. Sayanti Bagchi	4	8 days

		Unit 7: Fibre Yielding Plants	Mrs. Sayanti Bagchi	4	8 days
		Unit 8: Introduction to biotechnology	Mrs. Sayanti Bagchi	3	6 days
		Unit 9: Plant tissue culture	Mrs. Sayanti Bagchi	4	8 days
		Unit 10: Recombinant DNA Techniques	Mrs. Sayanti Bagchi	4	8 days
Semester IV	B.Sc General	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
		DSC-1D(CC-4): Plant Physiology and Metabolism			
		Unit 1: Plant-water relations	Mrs. Sayanti Bagchi	4	8 days
		Unit 2: Mineral nutrition	Mrs. Sayanti Bagchi	3	6 days
		Unit 3: Translocation in phloem	Mrs. Sayanti Bagchi	4	8 days
		Unit 4: Photosynthesis	Mrs. Sayanti Bagchi	4	8 days
		Unit 5: Respiration	Mrs. Sayanti Bagchi	4	8 days
		Unit 6: Enzymes	Sawmen Kr. Ghorai	5	10 days
		Unit 7: Nitrogen metabolism	Sawmen Kr. Ghorai	4	8 days
		Unit 8: Plant growth regulators	Sawmen Kr. Ghorai	4	6 days
				4	8 days

		Unit 9: Plant response to light and temperature	Sawmen Kr. Ghorai		
Semester IV	B.Sc Honours	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
		GE 4T & GE 4P Plant Anatomy and Embryology			
		Unit 1: Meristematic and permanent tissues	Mrs. Sayanti Bagchi	4	8 days
		Unit 2: Organs	Mrs. Sayanti Bagchi	3	6 days
		Unit 3: Secondary Growth	Mrs. Sayanti Bagchi	4	8 days
		Unit 4: Adaptive and protective systems	Mrs. Sayanti Bagchi	4	8 days
		Unit 5: Structural organization of flower	Sawmen Kr. Ghorai	5	10 days
		Unit 6: Pollination and fertilization	Sawmen Kr. Ghorai	3	6 days
		Unit 7: Embryo and endosperm	Sawmen Kr. Ghorai	4	8 days
		Unit 8: Apomixis and polyembryony	Sawmen Kr. Ghorai	3	6 days
Semester V	B.Sc General	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
		DSE-1: Cell and Molecular Biology		4	8 days

		Unit 1: Techniques in Biology	Mrs. Sayanti Bagchi	3	6 days
		Unit 2: Cell as a unit of Life	Mrs. Sayanti Bagchi	5	10 days
		Unit 3: Cell Organelles	Mrs. Sayanti Bagchi		8 days
		Unit 4: Cell Membrane and Cell Wall	Mrs. Sayanti Bagchi	4	10 days
		Unit 5: Cell Cycle	Sawmen Kr. Ghorai	5	10 days
		Unit 6: Genetic material	Sawmen Kr. Ghorai	4	8 days
		Unit 7: Transcription (Prokaryotes and Eukaryotes)	Sawmen Kr. Ghorai	3	6 days
		Unit 8: Regulation of gene expression	Sawmen Kr. Ghorai		
Semester VI	B.Sc General	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
		DSE-2 & DSE2T: Genetics and Plant Breeding			
		Unit 1: Heredity	Mrs. Sayanti Bagchi	4	8 days
		Unit 2: Sex-determination and Sex-linked Inheritance	Mrs. Sayanti Bagchi	4	8 days
		Unit 3: Linkage and Crossing over	Mrs. Sayanti Bagchi	4	8 days
				5	10 days

		Unit 4: Mutations and Chromosomal Aberrations	Mrs. Sayanti Bagchi		
		Unit 5: Plant Breeding	Sawmen Kr. Ghorai	3	6 days
		Unit 6: Methods of crop improvement	Sawmen Kr. Ghorai	4	8 days
		Unit 7: Quantitative inheritance	Sawmen Kr. Ghorai	3	3 days
		Unit 8: Inbreeding depression and heterosis	Sawmen Kr. Ghorai	3	6 days
		Unit 9: Crop improvement and breeding	Sawmen Kr. Ghorai	4	8 days