

**Department of Botany**  
**Teaching plan on**  
**Academic Year 2019-2020**

Year/Semesters	Course	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
Part III	B.Sc General	<b>Paper IV</b>			
		Section I			
		Genetics, Plant Breeding & Biometry	Mrs. Sayanti Bagchi	10	2 Months
	Mr. Janmenjoy Bera	10			
		Section II			
		Medicinal Plants, Floriculture, Plants Protection, Plant Propagation	Mrs. Sayanti Bagchi	10	2 Months
			Mr. Sawmen Kr. Ghorai	10	
		Section III			
		Mushroom Culture, Biofertilizer	Mr. Sawmen Kr. Ghorai	3	15 Days
			Mr. Janmenjoy Bera	3	

		Section IV Seed Preservation, Biodiversity	Mrs. Sayanti Bagchi	6	15 Days
		<b>Paper &amp; Unit</b>	<b>Name of the Faculty</b>	<b>No. of Lectures</b>	<b>To be completed within</b>
<b>Semester I</b>	B.Sc General	<b>DSC 1AT&amp; DSC 1CP</b>  <b>Biodiversity (Microbes, Algae, Fungi &amp;Archaeogoniate)</b>			
		Unit 1 Microbes	Mrs. Sayanti Bagchi	4	8 days
		Unit 2 Algae	Mrs. Sayanti Bagchi	4	8 Days
		Unit 3 Fungi	Mr. Janmenjoy Bera	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	Mr. Janmenjoy Bera	4	8 Days
		Unit 7 Gymnosperms	Mrs. Sayanti Bagchi	4	8 Days

	<b>B.Sc Honours</b>	<b>GE 1T &amp; GE 1P Biodiversity (Microbes, Algae, Fungi &amp; Archaeogoniate)</b>			
		Unit 1 Microbes	Mrs. Sayanti Bagchi	4	8 days
		Unit 2 Algae	Mrs. Sayanti Bagchi	4	8 Days
		Unit 3 Fungi	Mr. Janmenjoy Bera	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	Mr. Janmenjoy Bera	4	8 Days
		Unit 7 Gymnosperms	Mrs. Sayanti Bagchi	4	8 Days
<b>Semester II</b>	<b>B.Sc General</b>	<b>DSC 1B &amp; DSC 1BP Plant Ecology &amp; Taxonomy</b>			
		Unit 1 Introduction	Mrs. Sayanti Bagchi	4	8 Days
		Unit 2 Ecological Factors	Mrs. Sayanti Bagchi	4	8 Days
		Unit 3		4	

		Plant Communities	Mrs. Sayanti Bagchi		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. Janmenjoy Bera	4	8 Days
		Unit 10 Botanical Nomenclature	Mr. Janmenjoy Bera	4	8 Days
		Unit 11 Classification	Mr. Janmenjoy Bera	4	8 Days
		Unit 12 Biometrics, numerical taxonomy and cladistics	Mr. Janmenjoy Bera	4	8 Days
	<b>B.Sc Honours</b>	<b>GE 2T &amp; GE 2P Plant Ecology &amp; Taxonomy</b>			

		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		4	
		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. Janmenjoy Bera	4	8 Days
		Unit 10 Botanical Nomenclature			
		Unit 11 Classification	Mr. Janmenjoy Bera	4	8 Days
		Unit 12	Mr. Janmenjoy Bera	4	

		Biometrics, numerical taxonomy and cladistics	Mr. Janmenjoy Bera	4	8 Days  8 Days
<b>Semester II</b>	<b>B.Sc General SEC</b>	<b>Paper &amp; Unit</b>	<b>Name of the Faculty</b>	<b>No. of Lectures</b>	<b>To be completed within</b>
		<b>SEC-2: Mushroom Culture Technology</b>			
		<b>Unit-1 Introduction and history</b>	Mrs. Sayanti Bagchi	<b>3</b>	<b>6 Days</b>
		<b>Unit-2 Cultivation Technology</b>	Mrs. Sayanti Bagchi	<b>3</b>	<b>6 Days</b>
		<b>Unit-3 Storage and nutrition</b>	Sawmen Kr. Ghorai	<b>4</b>	<b>8 Days</b>
		<b>Unit-4 Food Preparation</b>	Sawmen Kr. Ghorai	<b>3</b>	<b>6 Days</b>
<b>Semester III</b>	<b>B.Sc Honours</b>	<b>Paper &amp; Unit</b>	<b>Name of the Faculty</b>	<b>No. of Lectures</b>	<b>To be completed within</b>

		<b>GE 3T &amp; GE 3P</b>			
		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
		U nit 9: Plant tissue culture	Mrs. Sayanti Bagchi	4	8 days
		Unit 10: Recombinant DNA Techniques	Mrs. Sayanti Bagchi	4	8 days
<b>Semester IV</b>	<b>B.Sc General</b>	<b>Paper &amp; Unit</b>	<b>Name of the Faculty</b>	<b>No. of Lectures</b>	<b>To be completed within</b>

		Unit 8: Plant growth regulators	Sawmen Kr. Ghorai	4	6 days
		Unit 9: Plant response to light and temperature	Sawmen Kr. Ghorai	4	8 days

		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

Semester IV	B.Sc Honours	Paper & Unit	Name of the Faculty	No. of Lectures	To be completed within
		<b>GE 4T &amp; GE 4P</b>			
		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