



গড়গাঁও মহাবিদ্যালয়

GARGAON COLLEGE



Course Distribution
Department of Botany
2021-22



DEPARTMENT OF BOTANY
গড়গাঁও মহাবিদ্যালয়
GARGAON COLLEGE

NAAC Accredited with 'B' Grade
P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Date: 21/10/2021

Odd Semester Syllabus distribution 2021

I st Semester				
Faculty name	Core course I		Core course II	Generic I
Dr. Dimbeshwar Das	Unit 4: Algae Unit 5: Cyanophyta, Chlorophyta, Xanthophyta and Charophyta		Unit 4: The Cell Unit 5: Cell Wall and Plasma Membrane Unit 6: Cell organelles Unit 7: Cell Division	
Mrs. Sangeeta Chetia	Unit 1: Introduction to Bacterial World Unit 2: Bacteria Unit 3: Viruses Unit 6: Phaeophyta and Rhodophyta			Unit 1: Microbes Unit 2: Algae Unit 3: Fungi Unit 4: Lichen
Miss Sandeepa Agarwalla			Unit 1: Biomolecules Unit 2: Bioenergetics Unit 3: Enzymes	Unit 5: Introduction to Archegoniates Unit 6: Bryophytes Unit 7: Pteridophytes Unit 8: Gymnosperms
III rd Semester				
	Core course V	Core Course VI	Core Course VII	Generic III
Dr. Dimbeshwar Das			Unit 1: Mendelism Genetics and its Extension Unit 2: Extrachromosomal Inheritance Unit 3: Linkage, Crossing Over and chromosome mapping Unit 4: Variation in chromosome number and structure	
Mrs. Sangeeta Chetia	Unit 1: Introduction and scope of Plant Anatomy Unit 2: Structure and development of plant body Unit 3: Tissues	Unit 1: Origin of cultivated Plants Unit 2: Cereals Unit 3: Legumes Unit 4: Sources of sugar and starches Unit 5: Spices Unit 6: Beverages Unit 7: Sources of oils and fats Unit 8: Natural rubber Unit 9: Drug yielding plants Unit 10: Timber plants Unit 11: Fibres Unit 12: Aromatic and Petrocrops		Unit 3: Secondary Growth Unit 4: Adaptive and protective systems Unit 7: Embryo and endosperm Unit 8: Apomixis and polyembryony
Miss Sandeepa Agarwalla	Unit 4: Apical Meristem Unit 5: Vascular cambium and Wood Unit 6: Adaptive		Unit 5: Fine Structure of Gene Unit 6: Gene Mutations Unit 7: Population and Evolutionary Genetics	Unit 1: Meristematic and permanent tissues Unit 2: Organs Unit 5: Structural organization of flowers Unit 6: Pollination and

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	and Protective system			fertilization
Vth Semester				
	Core course XI	Core course XII	DSE-1	DSE-2
Dr. Dimbeshwar Das				Unit 1: Imaging and related techniques Unit 2: Cell fractionation Unit 3: Radioisotopes Unit 4: Spectrophotometry Unit 5: Chromatography Unit 6: Characterization of proteins and nucleic acids Unit 7: Biostatistics
Mrs. Sangeeta Chetia	Unit 7: Polyembryony, Apomixes and Parthenocarpy	Unit 1 Plant water relations Unit 2: Mineral nutrition Unit 3: Nutrient uptake Unit 4: Translocation in the phloem Unit 5: Plant Growth regulators Unit 6: Physiology of flowering Unit 7: Phytochromes, Cryptochromes and phototropins		
Miss Sandeepa Agarwalla	Unit 1: Introduction Unit 2: Reproductive development Unit 3: Anther and Pollen Biology Unit 4: Ovule Unit 5: Pollination and fertilization Unit 6: Self incompatibility		Unit 1: Introduction to Bioinformatics Unit 2: Databases in Bioinformatics Unit 3: Biological Sequence Databases Unit 4: Sequence Alignments Unit 5: Molecular Phylogeny Unit 6: Applications of Bioinformatics	



Signature of the Head

Head
Department of Botany
Gargaon College, Simaluguri
Dist. Sivasagar, Pin 785686, Assam



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Date 22/03/2022

Even Semester Syllabus Distribution (April-June, 2022)

IIIrd Semester				
	Core course III	Core course IV	Generic II	
Dr. Dimbeshwar Das	Unit 6: Phytopathology	Unit 1: Introduction Unit 2: Bryophytes Unit 3: Type Studies- Bryophytes Unit 6: Fossil Plants		
Mrs. Sangeeta Chetia	Unit 1: Introduction to Fungi Unit 2: Chytridiomycota, Zygomycota, Ascomycota and Basidiomycota Unit 3: Allied Fungi and Oomycota		Unit 4: Photosynthesis Unit 5: Respiration Unit 8: Plant growth regulators Unit 9: Plant response to light and temperatures	
Miss Sandeepa Agarwalla	Unit 4: Symbiotic Association Unit 5: Applied Mycology	Unit 4: Pteridophytes Unit 5: Gymnosperms	Unit 1: Plant water relations Unit 2: Mineral Nutrition Unit 3: Translocation in phloem Unit 6: Enzymes Unit 7: Nitrogen Metabolism	
IVth Semester				
	Core course VIII	Core Course IX	Core Course X	Generic IV
Dr. Dimbeshwar Das	Unit 1: Nucleic Acids: Carriers of genetic information Unit 2: The structure of DNA and RNA Unit 3: The replication of DNA		Unit 1: Significance of Plant systematics Unit 3: Morphology and Botanical nomenclature Unit 7: Major families of Angiosperms	
Mrs. Sangeeta Chetia		Unit 1: Introduction Unit 2: Soil Unit 4: Population Ecology	Unit 2: Taxonomic hierarchy Unit 4: Systems of classification Unit 5: Biometrics, numerical taxonomy and cladistics Unit 6: Phylogeny of Angiosperms	Unit 1: Introduction Unit 2: ecological factors Unit 3: Plant communities Unit 9: Taxonomic hierarchy Unit 10: Botanical Nomenclature Unit 11: Classification
Miss Sandeepa Agarwalla	Unit 4: Central Dogma and Genetic Code Unit 5: Transcription Unit 6: Processing and modification of	Unit 3: Biotic Interaction Unit 5: Plant Communities Unit 6: Ecosystem: Structure and Function		Unit 4: Ecosystem Unit 5: Phytogeography Unit 6: Introduction to plant taxonomy Unit 7: Identification Unit 8: Taxonomic evidences from

	RNA Unit 7: Translation	Unit 7: Phytogeography		palynology, cytology, phytochemistry and molecular data Unit 12: Biometrics, Numerical taxonomy and cladistics
VI Semester				
	Core course XIII	Core Course IV	DSE-3	DSE-4
Dr. Dimbeshwar Das		Unit 1: Plant Tissue Culture Unit 5: Applications of Biotechnology	Unit 1: Plant Breeding Unit 2: Methods of crop improvement Unit 3: Quantitative inheritance Unit 4: Inbreeding depression and heterosis Unit 5: Crop improvement and breeding	Unit 1: Biostatistics Unit 2: Collection of data primary and secondary Unit 3: Measures of central tendency Unit 4: Correlation Unit 5: Statistical inference
Mrs. Sangeeta Chetia	Unit 1: Concept of metabolism Unit 2: Carbon assimilation Unit 3: Carbohydrate metabolism Unit 4: Carbon Oxidation			
Miss Sandeepa Agarwalla	Unit 5: ATP- Synthesis Unit 6: Lipid metabolism Unit 7: Nitrogen metabolism Unit 8: Mechanisms of signal transduction	Unit 2: Recombinant DNA technology Unit 3: Gene Cloning Unit 4: Methods of gene transfer		



Signature of the Head

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