



গড়গাঁও মহাবিদ্যালয়

GARGAON COLLEGE



Course Distribution
Department of Botany
2023-24



গড়গাঁও মহাবিদ্যালয়
GARGAON COLLEGE
NAAC accredited with 'B' Grade

Course Distribution (Session: 2023-24):



DEPARTMENT OF BOTANY
গড়গাঁও মহাবিদ্যালয়
GARGAON COLLEGE
NAAC Accredited with 'B' Grade

P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Date: 30/06/23

NOTICE

It is notified to all the faculty members that the following list comprises the distribution of courses of 1st, 3rd and 5th semester. All the faculty members are requested to complete their course within the stipulated time.

(Dr. Dimbeshwar Das)

Head, Department of Botany
Gargaon College, Simaluguri



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Course distribution for Odd semester, 2023



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P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Date: 30/06/2023

COURSE DISTRIBUTION (Semester I, III & V)

Name of the Teacher: Dr. Dimbeshwar Das (HOD); Designation: Assistant Professor

Sl. No.	Semester	Subject	Stream	Paper Code	Unit
1	I (FYUGP)	Algae, Fungi, Bryophytes & Pteridophytes	MAJOR	BOT C1	Unit 1: Introduction to Algae Unit 3: Bryophytes
		Algae, Fungi, Bryophytes & Pteridophytes	MINOR	MINBOT1	Unit 1: Introduction to Algae Unit 3: Bryophytes
		Health and Wellness	MAJOR	VAC2	Unit 1: Introduction to Health & Wellness Unit 2: Mind – Body and Well-Being
		SEC: Mushroom Culture Technology	MAJOR	SEC119	Unit 1: Introduction Unit 2: Cultivation Technology Unit 3: Storage Practical
		GEC: Natural Resource Management	MAJOR	GECBOT1	Unit 1: Natural resources Unit 4: Contemporary practices in resource management
2	III	Genetics	HONS.	C 7	Unit 1: Mendelism Genetics and its Extension Unit 2: Extra chromosomal Inheritance Unit 3: Linkage, Crossing Over and chromosome mapping Unit 4: Variation in chromosome number and structure

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		Basics of Vermicomposting	HONS.	SEC 1.1	Unit 1: Introduction to vermiculture Unit 2: The species of earthworms Unit 3: Biology of earthworms
3	V	Analytical Techniques in Plant Sciences	HONS.	DSE 1	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

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P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Date: 30/06/2023

COURSE DISTRIBUTION (Semester I, III & V)

Name of the Teacher: Mrs. Sangeeta Chetia; Designation: Assistant Professor

Sl. No.	Semester	Subject	Stream	Paper Code	Unit
1	I (FYUGP)	Algae, Fungi, Bryophytes & Pteridophytes	MAJOR	BOT C1	Unit 2. Introduction to fungi, Lichen, Study of major divisions of fungi, Economic importance of fungi
		Algae, Fungi, Bryophytes & Pteridophytes	MINOR	MINBOT1	Unit 2. Introduction to fungi, Lichen, Study of major divisions of fungi, Economic importance of fungi
		GEC: Natural Resource Management	MAJOR	GECBOT1	Unit 2: Sustainable utilization of land and water resources
2	III	Anatomy of Angiosperms	HONS.	C 5	Unit 1: Introduction and scope of Plant Anatomy
					Unit 2: Structure and development of plant body
					Unit 3: Tissues
		Economic Botany	HONS.	C 6	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
Plant Anatomy and Embryology	GE	GE 3	Unit 10: Timber plants		
			Unit 11: Fibers		
			Unit 12: Aromatic and Petro crops		
			Unit 3: Secondary Growth		
			Unit 4: Adaptive and protective systems		

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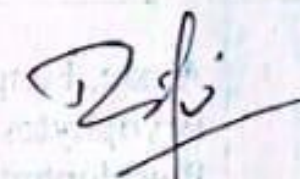
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					Unit 7: Embryo and endosperm
					Unit 8: Apomixis and polyembryony
3	V	Plant Physiology	HONS.	C 12	Unit 1 Plant water relations
					Unit 2: Mineral nutrition
					Unit 3: Nutrient uptake
					Unit 4: Translocation in the phloem
					Unit 5: Plant Growth regulators
					Unit 6: Physiology of flowering
					Unit 7: Phytochromes, Cryptochromes and phototropins


Head
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P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Date: 30/06/2023

COURSE DISTRIBUTION (Semester I, III & V)

Name of the Teacher: Miss Sandeepa Agarwalla; Designation: Assistant Professor

Sl. No.	Semester	Subject	Stream	Paper Code	Unit
1	I (FYUGP)	Algae, Fungi, Bryophytes & Pteridophytes	MAJOR	BOTCI	Unit 4: Pteridophytes, Ecological and economic importance
		Algae, Fungi, Bryophytes & Pteridophytes	MINOR	MINBOT1	Unit 4: Pteridophytes, Ecological and economic importance
		GEC: Natural Resource Management	MAJOR	GECBOT1	Unit 3: Forests: Definition, Significance; Types of vegetation in India
2	III	Anatomy of Angiosperms	HONS.	C 5	Unit 4: Apical Meristem Unit 5: Vascular cambium and Wood Unit 6: Adaptive and Protective system
		Genetics	HONS.	C 7	Unit 5: Fine Structure of Gene Unit 6: Gene Mutations Unit 7: Population and Evolutionary Genetics
		Plant Anatomy and Embryology	GE	GE 3	Unit 1: Meristematic and permanent tissues Unit 2: Organs Unit 5: Structural organization of flowers Unit 6: Pollination and fertilization
3	V	Reproductive Biology of Angiosperms	HONS.	C 11	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

Head
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Dist Sivasagar, pin 785609, Assam



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Course distribution for Odd semester, 2023

				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
	Bioinformatics	HONS.	DSE 2	

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Course distribution for Even semester, 2024



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P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Date: 17/01/24

NOTICE

It is notified to all the faculty members that the following list comprises the distribution of courses of 2nd, 4th and 6th semester. All the faculty members are requested to complete their course within the stipulated time.

(Dr. Dimbeshwar Das)
Head, Department of Botany
Gargaon College, Simaluguri



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P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Date: 17/01/2024

COURSE DISTRIBUTION (Semester II, IV & VI)

Name of the Teacher: Dr. Dimbeshwar Das (HOD); Designation: Assistant Professor

Sl. No.	Semester	Subject	Stream	Paper Code	Unit
I	II (FYUGP)	Morphology and Reproduction of Spermatophytes	MAJOR	BOTC2	Unit 1: Gymnosperm; Fossil plants:
					Unit 2: Morphology of Angiosperms
		Morphology and Reproduction of Spermatophytes	MINOR	MINBOTC2	Unit 1: Gymnosperm; Fossil plants:
					Unit 2: Morphology of Angiosperms
		GEC; Plant Diversity and Human Welfare	MAJOR	GECBOT2	Unit 1: Plant diversity and its scope; Values and uses of Biodiversity
					Unit 2: Loss of Biodiversity; Management of Plant Biodiversity
		SEC: Conservation and Cultivation of Orchids	MAJOR	SEC219	Unit 1: Introduction to Orchids.
					Unit 2: Common and endemic
		VAC: Environmental Science	MAJOR	VAC 3	Unit 3: Propagation of Orchids
					Unit 4: Conservation of Orchids and Practical
Unit 1 : The Multidisciplinary nature of environmental studies					
Unit 2 : Natural Resources					
Unit 3: Ecosystems					
Unit 4: Biodiversity and its conservation					
Unit 5: Environmental Pollution					
Unit 6: Social Issues and the Environment					
Unit 7: Human Population and the Environment					


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2	IV	Molecular Biology	HONS.	C 8	Unit 1: Nucleic Acids: Carriers of genetic information	
					Unit 2: The structure of DNA and RNA	
					Unit 3: The replication of DNA	
		Plant Systematics	HONS.	C 10	Unit 1: Significance of Plant systematics	
					Unit 2: Taxonomic hierarchy	
					Unit 3: Morphology and Botanical nomenclature	
	Vermicompost Technology (SEC)	HONS.	SEC 1.2	Unit 4: Systems of classification		
				Unit 5: Biometrics, numerical taxonomy and cladistics		
				Unit 6: Phylogeny of Angiosperms		
	3	VI	Plant Biotechnology	HONS.	C 14	Unit 7: Major families of Angiosperms
						Unit 1: Small scale Vermicomposting
			Plant Breeding	HONS.	DSE 3	Unit 2: Nutritional composition of vermicompost
Unit 3: Identification of Earthworms, Preparation, packaging of vermicompost						
Unit 1: Plant Tissue Culture						
Biostatistics		HONS.	DSE 4	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	

[Signature]

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P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Date: 17/01/2024

COURSE DISTRIBUTION (Semester II, IV & VI)

Name of the Teacher: Mrs. Sangeeta Chetia; Designation: Assistant Professor

Sl. No.	Semester	Subject	Stream	Paper Code	Unit
1	II (FYUGP)	Morphology and Reproduction of Spermatophytes	MAJOR	BOTC2	Unit 4: Pollination, fertilization and post fertilization developments
		Morphology and Reproduction of Spermatophytes	MINOR	MINBOT2	Unit 4: Pollination, fertilization and post fertilization developments
		GEC: Plant Diversity and Human Welfare	MAJOR	GECBOT2	Unit 3: Conservation of Biodiversity
2	IV	Plant Ecology & Phytogeography	HONS.	C 9	Unit 1: Introduction Unit 2: Soil Unit 4: Population Ecology
		Plant Ecology and Taxonomy	GE	GE 4	Unit 1: Introduction Unit 2: ecological factors Unit 3: Plant communities Unit 9: Taxonomic hierarchy Unit 10: Botanical Nomenclature Unit 11: Classification
3	VI	Plant Metabolism	HONS.	C 13	Unit 1: Concept of metabolism Unit 2: Carbon assimilation Unit 3: Carbohydrate metabolism Unit 4: Carbon Oxidation

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P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Date: 17/01/2024

COURSE DISTRIBUTION (Semester II, IV & VI)

Name of the Teacher: Miss. Sandeepa Agarwalla; Designation: Assistant Professor

Sl. No.	Semester	Subject	Stream	Paper Code	Unit
1	II (FYUGP)	Morphology and Reproduction of Spermatophytes	MAJOR	BOTC2	Unit 3: Anther and pollen biology and Ovule
		Morphology and Reproduction of Spermatophytes	MINOR	MINBOTC2	Unit 3: Anther and pollen biology and Ovule
		GEC: Plant Diversity and Human Welfare	MAJOR	GECBOT2	Unit 4: Role of plants in relation to Human Welfare
2	IV	Molecular Biology	HONS.	C 8	Unit 4: Central Dogma and Genetic Code
					Unit 5: Transcription
					Unit 6: Processing and modification of RNA
		Plant Ecology & Phytogeography	HONS.	C 9	Unit 7: Translation
					Unit 3: Biotic Interaction
					Unit 5: Plant Communities
Plant Ecology and Taxonomy	GE	GE 4	Unit 6: Ecosystem: Structure and Function		
			Unit 7: Phytogeography		
			Unit 4: Ecosystem		
					Unit 5: Phytogeography
					Unit 6: Introduction to plant taxonomy
					Unit 7: Identification
					Unit 8: Taxonomic evidences from palynology, cytology, phytochemistry and molecular data
					Unit 12: Biometrics, Numerical taxonomy and cladistics

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3	VI	Plant Metabolism	HONS.	C 13	Unit 5: ATP-Synthesis Unit 6: Lipid metabolism Unit 7: Nitrogen metabolism Unit 8: Mechanisms of signal transduction
		Plant Biotechnology	HONS.	C 14	Unit 2: Recombinant DNA technology Unit 3: Gene Cloning Unit 4: Methods of gene transfer

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