

TEACHING PLAN
DEPARTMENT OF BOTANY
GARGAON COLLEGE
JULY 2023-JUNE 2024



## Teaching Plan (Session: 2023-24) (Odd Semester, Aug-Dec, 2023)

### Name of the Teacher: Dr. Dimbeshwar Das

#### Teaching Plan

Name of the Teacher: Dr. Dimbeshwar Das; Designation: Assistant Professor; Session: Aug - Dec 2023

SI, No.	Semester	Subject	Stream	Paper Code	Unit	Duration	Number of students	Teaching Methodololgy	Work Land	CO Learning Outcome
		Algae, Fungi, Bryophytes & Pteridophytes	MAJOR	BOT CI	Unit 1: Introduction to Algae	AUG - DEC 23	41		3 Hrs/Week	To provide knowledge to the students on various forms of
		rtendopnytes		55.01	Unit 3: Bryophytes	A00-DEC 25	-11	Lecture Method, Audio- Visual Aids, Practical based	3 Hrs/Week	algae, fungi, bryophytes and
		Algae, Fungi, Bryophytes & Pteridophytes	MINOR	MINBOTI	Unit 1: Introduction to Algae	AUG - DEC 23	53	classes, Student Seminars, Class tests and Filed Trips	4 Hrs/Week	pteridophytes - their characteristics, mode of
		Frendophytes			Unit 3: Bryophytes	A00-DEC 23	33		4 Hrs Week	reproduction and economic importance.
1	I (FYUGP)	Health and Wellness	MAJOR	VAC2	Unit 1: Introduction to Health & Wellness Unit 2: Mind – Body and Well-Being	AUG - DEC 23	130	Lecture Method, Audio- Visual Aids, Group Discussion, Debate and Class tests	2 Hr/Week	To introduce the learners to the concept of health and wellness and its relevance in daily life.     To introduce the learners to the relation between mind- body and its relevance.     To introduce learners to health behavior and promotion of human strengths for well- being.
		SEC: Mushroom Culture Technology	MAJOR	SEC119	Unit 1: Introduction Unit2: Cultivation Technology Unit 3: Storage Practical	AUG - DEC 23	26	Lecture Method, Audio- Visual Aids, Practical based classes, Student Seminars, Class tests and Filed Trips	1 Hr/Week	To provide knowledge to the students on Mushroomcultivation, production and processing techniques.
		GEC: Natural Resource Management	MAJOR	GECBOTI	Unit 1: Natural resources Unit 4: Contemporary practices in resource management	AUG - DEC 23	10	Lecture Method, Audio- Visual Aids, Debate and Class tests	1 Hr/Week	To provide knowledge to the students on importance, sustainable utilization, conservation and management of natural resources

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	l e				Unit 1: Mendelism Genetics and its Extension			diam.	-		
					Unit 2: Extrachromosomal Inheritance			Lecture Method, Audio- Visual Aids, Practical based		To impart knowledge of the	
		Genetics	HONS.	C7	Unit 3: Linkage, Crossing Over and chromosome mapping	AUG - DEC 23	25	classes, Student Seminars, Class tests and Filed Trips	10 Hrs/Week	principles of heredity and different mechanisms of inheritance	
2	ш				Unit 4: Variation in chromosome number and structure			24 :		vermicompost and the Economic importance of vermiculture. The students will be able to produce good quality of Vermicompost and Vermiculture. Acquire skills for entrepreneurship	
					Unit 1: Introduction to vermiculture		127	Lecture Method, Audio-			
		Basics of Vermicomposting	HONS.	SEC 1.1	Unit 2: The species of earthworms	AUG - DEC 23	20	Visual Aids, Practical based	1 Hr/Week		
					Unit 3: Biology of earthworms			classes and Filed Trips			
					Unit 1: Imaging and related techniques						
	v			4 4 4	Unit 2: Cell fractionation				N 60 7		
		Analytical Techniques in Plant		10.	Unit 3: Radioisotopes			Lecture Method, Audio-		To expose the students to	
3		Sciences	HONS.	DSE 1	Unit 4: Spectrophotometry	AUG - DEC 23	25	Visual Aids, Practical based classes, Student Seminars,		different techniques which can	
				1 - 3 - 4	Unit 5: Chromatography			Class tests and Filed Trips		be used to study different Biological processes	
				1	Unit 6: Characterization of			Committee of the commit		Diological processes	
					Unit 7: Biostatistics						



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### Name of the Teacher: Sangeeta Chetia

#### Teaching Plan

Name of the Teacher: Mrs. Sangeeta Chetia; Designation: Assistant Professor; Session: Aug - Dec 2023

Sl. No.	Semester	Subject	Stream	Paper Code	Unit	Duration	Number of students	Teaching Methodololgy	Work Laod	Learning Outcome
		Algae, Fungi, Bryophytes & Pteridophytes	MAJOR	BOT CI	Unit 2. Introduction to fungi, Lichen, Study of major divisions of fungi, Economic importance of fungi	AUG - DEC 23	41	Lecture Method, Audio- Visual Aids, Practical based	3 Hrs/Week	To provide knowledge to the students on various forms of algae, fungi, bryophytes and
1	I (FYUGP)	Algae, Fungi, Bryophytes & Pteridophytes	MINOR	MINBOTI	Unit 2. Introduction to fungi, Lichen, Study of major divisions of fungi, Economic importance of fungi	AUG - DEC 23	53	classes, Student Seminars, Class tests and Filed Trips	2 Hrs/Week	pteridophytes - their characteristics, mode of reproduction and economic importance.
		GEC: Natural Resource Management	MAJOR		Unit 2: Sustainable utilization of land and water resources	AUG - DEC 23	10	Lecture Method, Audio- Visual Aids, Debate and Class tests	4 Hrs/Week	To provide knowledge to the students on importance, sustainable utilization, conservation and management of natural resources
					Unit 1: Introduction and scope of Plant Anatomy			Lecture Method, Audio-		To expose the students on the
-		Anatomy of Angiosperms	HONS.	CS	Unit 2: Structure and development of plant body	AUG - DEC 23		Lecture Method, Audio- Visual Aids, Practical based classes, Student Seminars, Class tests and Filed Trips		structural and anatomical organisations of plant tissues
	1				Unit 3: Tissues Unit 1: Origin of cultivated			Class tests and Filed Trips		and their development
					Plants	la i				
		Ph Ph			Unit 2: Cereals		8 7			
					Unit 3: Legumes Unit 4: Sources of sugar and			1	10 13	
		9			starches	4	1			
		1		- 1	Unit 5: Spices	1		Lecture Method, Audio-	9 Hrs/Week	
	,	Economic Botany	HONS.	CA [	Unit 6: Beverages	HIC PEGA				To expose the students on
2	m		110113.	C. [	Unit 7: Sources of oils and	AUG - DEC 23		34 Visual Aids, Practical based classes, Student Seminars, Class tests and Filed Trips		various economically important plants and plant products

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					Unit 8: Natural rubber		-			
		2.00		in the	Unit 9: Drug yielding plants				1	
					Unit 10: Timber plants				1	
	There is	The second secon			Unit 11: Fibres					District.
				4	Unit 12: Aromatic and Petrocrops			I BANKS		
				THE STATE OF THE S	Unit 3: Secondary Growth					
					Unit 4: Adaptive and protective systems			Lecture Method, Audio-		To expose the students to th
		Plant Anatomy and Embryology	GE	GE 3	Unit 7: Embryo and endosperm	AUG - DEC 23	10	Visual Aids, Practical based classes, Student Seminars,	5 Hrs/Week	types of plant tissues their arrangement and also to plan
					Unit 8: Apomixis and polyembryony			Class tests and Filed Trips		reproduction
					Unit 1 Plant water relations					
- 1	N N				Unit 2: Mineral nutrtion			110-		
					Unit 3: Nutrient uptake					
J					Unit 4: Translocation in the phloem			Lecture Method, Audio-		_
3	v	Plant Physiology	HONS.	C 12	Unit 5: Plant Growth	AUG - DEC 23	25	Visual Aids, Practical based		To expose the students to
					regulators	ACG-DEC 25	23	classes, Student Seminars,	9 Hrs/Week	different physiological
			W-1		Unit 6: Physiology of flowering			Class tests and Filed Trips	- 43	processes in plant life
					Unit 7: Phytochromes, Cryptochromes and phototropins					









# Name of the Teacher: Sandeepa Agarwalla

#### Teaching Plan

Name of the Teacher: Miss Sandeepa Agarwalla; Designation: Assistant Professor; Session: Aug - Dec 2023

SL No.	Semester	Subject	Stream	Paper Code		Duration	Number of students	Teaching Methodololgy	Work Laod	Learning Outcome		
		Algae, Fungi, Bryophytes & Pteridophytes	MAJOR	вотсі	Unit 4: Pteridophytes, Ecological and economic importance	AUG - DEC 23	41	Lecture Method, Audio- Visual Aids, Practical based	3 Hrs/Week	To provide knowledge to the students on various forms of algae, fungi, bryophytes and		
1	1 (FYUGP)	Algae, Fungi, Bryophytes & Pteridophytes	MINOR	MINBOTI	Unit 4: Pteridophytes, Ecological and economic importance	AUG - DEC 23	53	classes, Student Seminars, Class tests and Filed Trips	2 Hrs/Week	pteridophytes - their characteristics, mode of reproduction and economic importance.		
		GEC: Natural Resource Management  Anatomy of Angiosperms	MAJOR		Unit 3: Forests: Definition, Significance; Types of vegetation in India	AUG - DEC 23	10	Lecture Method, Audio- Visual Aids, Debate and Class tests	2 Hrs/Week	To provide knowledge to the students on importance, sustainable utilization, conservation and management of natural resources		
					Unit 4: Apical Meristem							
			HONS.	C 5	Unit 5: Vascular cambium and Wood	AUG - DEC 23	34	Lecture Method, Audio- Visual Aids, Practical based		To expose the students on the structural and anatomical organisations of plant tissues and their development		
					Unit 6: Adaptive and Protective system							
_					Unit 5: Fine Structure of Gene			classes, Student Seminars,	9 Hrs/Week	To impart knowledge of the		
		Genetics	HONS.	C7	Unit 6: Gene Mutations	AUG - DEC 23	34	Class tests and Filed Trips		principles of heredity and		
2	ш	1	10000000		Unit 7: Population and	NOG-DEC 23	34			different mechanisms of		
- 1		Commercial and a second	la seconda de la constanta de		Evolutionary Genetics	Language and the			Care P	inheritance		
- 1					Unit 1: Meristematic and permanent tissues							
- 1	- 1				Unit 2: Organs	(		Lecture Method, Audio-		To expose the students to the		
- 1		Plant Anatomy and Embryolog	GE	GE 3 Unit 5: Structural AUG - DEC 23 34 Visual Aids, Practical based classes, Student Seminars, 4 Hrs/Week		types of plant tissues their arrangement and also to plant						
				tast Assertiny and Emoryolog			Unit 6: Pollination and			Class tests and Filed Trips		reproduction

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					Unit 1: Introduction					
	60	1 1 100			Unit 2: Reproductive development				1	
- 1		Le roductive Biology of Angiospe	HONS.	C 11	Unit 3: Anther and Pollen Biology	AUG - DEC 23	25	Lecture Method, Audio- Visual Aids, Practical based classes, Student Seminars,		To expose the students to the process and mechanisms of
		-rms			Unit 4: Ovule			Class tests and Filed Trips		plant reproduction.
4					Unit 5: Pollination and fertilization			Class tosts and rated Trips		
-11	100	Charles Charles Transaction		4,115	Unit 6: Self incompatibility					
3	v	Bioinformatics		e distribution	Unit 1: Introduction to Bioinformatics			The second second	11 Hrs/Week	
			HONS.		Unit 2: Databases in Bioinformatics					
				DSE 2	Unit 3: Biological Sequence Databases	AUG - DEC 23	25	Lecture Method, Audio- Visual Aids, Practical based		To expose the students to the application of computation
			110110	Date	Unit 4: Sequence Alignments	ACG-DEC 25	classes, Student Seminars and Class tests		tools in solving Biological problems	
		to the process of the West		and of	Unit 5: Molecular Phylogeny	10 A		100 A		
		e for vasitions			Unit 6: Applications of Bioinformatics			number (		



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## Teaching Plan (Session: 2023-24) (Even Semester, Jan-May, 2024)

### Name of the Teacher: Dr. Dimbeshwar Das

#### Teaching Plan

Name of the Teacher: Dr. Dimbeshwar Das; Designation: Assistant Professor; Session: JAN - MAY 2024

SI. No.	Semester	Subject	Stream	Paper Code	Unit	Duration	Number of students	Teaching Methodology	Work Youd	Learning Outcome
		Morphology and			Unit 1: Gymnosperm; Fossil plants:			Lecture Method, Audio-Visual Aids, Practical based classes,		To provide knowledge to the students on
		Reproduction of Spermatopythes	MAJOR	вотс2	Unit 2: Morphology of Angiosperms	JAN - MAY 2024	26	Student Seminars, Class tests and Filed Trips	3 Hrs/Week	Gymnosperms and Angiosperms with their morphology, mode of
		Morphology and			Unit 1: Gymnosperm; Fossil plants:			Lecture Method, Audio-Visual Aids,	2 Hrs/Week	reproduction, patterns of embryo development and economic and
		Reproduction of Spermatopythes	MINOR	MINBOTC2	Unit 2: Morphology of Angiosperms	JAN - MAY 2024	34	Practical based classes, Student Seminars and Class tests	2 his week	ecological importance.
	1 1	Human Welfare	MAJOR	GECBOT2	Unit 1: Plant diversity and its scope; Values and uses of Biodiversity	JAN - MAY 2024	8	Lecture Method, Audio-Visual Aids,	3 Hrs/Week	To provide knowledge to the students on biodiversity and its
1				-	Unit 2: Loss of Biodiversity; Management of Plant Biodiversity	JAN - MAY 2024		Debate and Class tests		importance for human welfare.
	Lan I		1		Unit 1: Introduction to Orchids.			Lecture Method,		To provide knowledge to the students on
		SEC: Conservation		CECO10	Unit 2:Common and endemic	JAN - MAY 2024	26	Audio-Visual Aids, Practical based classes,	3 Hrs/Week	Orchid diversity with special reference to NE
		and Cultivation of Orchids	MAJOR	SEC219	Unit 3: Propagation of Orchids	JAN - MAT 2024	20	Student Seminars, Class tests and Filed	3 ins week	India, Cultivation, Propagation and
					Unit 4:Conservation of Orchids and Practical			Trips		conservation techniques
		VAC: Environemntal		VAC 3	Unit 1 : The Multidisciplinary nature of environmental studies	JAN - MAY 2024	150	Lecture Method.		Able to critically examine all sides of environmental issues.
		Science	, moon		Unit 2 : Natural Resources			Audio-Visual Aids,		2. Able to recognize the
	1		1		Unit 3: Ecosystems			Debate and Class tests	2 Hrs/Week	Week physical, chemical,

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		1		1.65	Unit 4: Biodiversity and its			3074	18	biological components of the earth's systems
		74.			Conservation Unit 5: Environmental Pollution			THENT	100	and show how they function. 3. Able to do
=9	7				Unit 6: Social Issues and the Environment	L		Man of the second	ONROV	independent research on human interactions with the environment.
				(1000)	Unit 7: Human Population and the Environment				320	with the chyliolinent.
					Unit 1: Nucleic Acids: Carriers of genetic information			Lecture Method, Audio-Visual Aids, Practical based classes,		To impart knowledge of the principles of
		Molecular Biology	HONS.	C8	Unit 2: The structure of DNA and RNA	JAN - MAY 2024	32	Student Seminars, Class tests and Filed		heredity and different mechanisms of
Ħ					Unit 3: The replication of DNA			Trips		inheritance
					Unit 1: Significance of Plant systematics		5			
			-		Unit 2: Taxonomic hierarchy				10	
					Unit 3: Morphology and Botanical nomenclature			Lecture Method,	Hrs/Week	To expose the student
2	IV	Plant Systematics	HONS.	C 10	Unit 4: Systems of classification	JAN - MAY 2024	32	Audio-Visual Aids, Practical based classes, Student Seminars.		to identification, classification and
		Plant Systematics			Unit 5: Biometrics, numerical taxonomy and cladistics			Class tests and Filed Trips		nomenclature of higher plants
			28		Unit 6: Phylogeny of Angiosperms					
					Unit 7: Major families of Angiosperms			La		
		Vermicompost			Unit 1: Small scale Vermicomposting			Lecture Method, Audio-Visual Aids		To impart knowledge of the vermicompost and the Economic
		Technology (SEC)	HONS.	SEC 1.2	Unit 2: Nutritional composition of vermicompost	JAN - MAY 2024	20	Practical based classes and Filed Trips	l Hr/Wek	importance of vermiculture. The students will be able to

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					Unit 3: Identification of Earthworms, Prepartion, pakaging of vermicompost	4		4		produce good quality of Vermicompost and Vermiculture. Acquire skills for entrepreneurship
		Plant	HONE		Unit 1: Plant Tissue Culture	JAN - MAY 2024	25	Lecture Method, Audio-Visual Aids,		To expose the students to application of
		Biotechnology	HONS.	C 14	Unit 5: Applications of Biotechnology	JAN - MAT 2024		Practical based classes and Filed Trips		modern tools and techniques in Biology
					Unit 1: Plant Breeding	F 76-50-6				
			A lan		Unit 2: Methods of crop improvement			Lecture Method.		To expose the students to different methods of plant improvement and
		Plant Breeding	HONS.	DSE 3	Unit 3: Quantitative inheritance	JAN - MAY 2024	25	Audio-Visual Aids, Practical based classes	_	
3	VI	- 500			Unit 4: Inbreeding depression and heterosis			and Filed Trips	10 Hrs/Week	breeding techniques.
					Unit 5: Crop improvement and breeding			Annual Control of the		
- 1					Unit 1: Biostatistics			District Control of the Control of t		
		Biostatistics	1 1		Unit 2: Collection of data primary and secondary	101		Lecture Method, ICT		To expose the students
			HONS.	DSE 4	Unit 3: Measures of central tendency	JAN - MAY 2024	25	Tools and Practical based classes		to different statistical tools for Biological
		-1	1 1		Unit 4: Correlation			1		data analysis
			1 1		Unit 5: Statistical inference					

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# Name of the Teacher: Sangeeta Chetia

#### Teaching Plan

Name of the Teacher: Mrs. Samoete Cheria - Decimation: Assistant Professor: Session: JAN - MAY 2024

SI. No.	Semester	Subject	Stream	Paper Code	Unit	Duration	Number of students	Teaching Methodology	Work Load	Learning Outcome		
		Morphology and Reproduction of Spermatophytes	MAJOR	вотс2	Unit 4: Pollination, fertilization and post fertilization developments	JAN - MAY 2024	26	Lecture Method, Audio-Visual Aids, Practical based classes, Student Seminars, Class tests and Filed Trips	2 Hrs/Week	To provide knowledge to the students on Gymnosperms and Angiosperms with their morphology, mode of		
1	II (FYUGP)	Morphology and Reproduction of Spermatophytes	MINOR	MINBOT2	Unit 4: Pollination, fertilization and post fertilization developments	JAN - MAY 2024	34	Lecture Method, Audio-Visual Aids, Practical based classes, Student Seminars and Class tests	2 Hrs/Week	importance.		
		GEC: Plant Diversity and Human Welfare	MAJOR	GECBOT2	Unit 3: Conservation of Biodiversity	JAN - MAY 2024	8	Lecture Method, Audio-Visual Aids, Debate and Class tests	2 Hrs/Week	To provide knowledge to the students on biodiversity and its importance for human welfare.		
					Unit 1: Introduction					To expose the students to		
	k		L 160		Unit 2: Soil	) = <sub>0</sub>	S 1			interaction of plant with		
		Plant Ecology & Phytogeography		C9	Unit 4: Population Ecology	JAN - MAY 2024	4 32	Audio-Visual Aids, Practical based classes, Student Seminars, Class tests and Filed Trips	7 Hrs/Week	ite curroundings and also		
		TO A STATE OF THE			Unit 1: Introduction							
2		Plant Ecology and		5	Unit 2: Ecological factors			Lecture Method,		To expose the students to		
					11	Audio-Visual Aids, Practical based	4 Hrs/Week	interaction of plant life with the surroundings and				
		Taxonomy			Unit 9: Taxonomic hierarchy			classes, Student Seminars and Class	111111111111111111111111111111111111111	also to identification, classification and nomenclature of plants		
0"		2	2	2	5		Unit 10: Botanical Nomenclature			tests		nomenciature of plants

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-			-		Unit 11: Classification			-		The sales
					Unit 1: Concept of metabolism			Lecture Method, Audio-Visual Aids, Practical based		To expose the students to
3	VI	Plant Metabolism	HONS.	C 13	Unit 2: Carbon assimilation	JAN - MAY 2024	26	classes, Student Seminars and Class	14 Hrs/Week	various metabolic processes involved with plant life
		Name and			Unit 3: Carbohydrate metabolism			tests		plan me
					Unit 4: Carbon Ovidation	1 1				Dr. Sand

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# Name of the Teacher: Sandeepa Agarwalla

#### Teaching Plan

Name of the Teacher: Miss Sandeepa Agarwalla; Designation: Assistant Professor Session: JAN - MAY 2024

SI. No.	Semester	Subject	Stream	Paper Code	Unit	Duration	Number of students	Teaching Methodology	Work Load	Learning Outcome	
		Morphology and Reproduction of Spermatopythes	MAJOR	вотс2	Unit 3: Anther and pollen biology and Ovule	JAN - MAY 2024	26	Lecture Method, Audio-Visual Aids, Practical based classes, Student Seminars, Class tests and Filed Trips	2 Hrs/Week	To provide knowledge to the students on Gymnosperms and Angiosperms with their	
1	II (FYUGP)	Morphology and Reproduction of Spermatopythes	MINOR	MINBOTC2	C2 Unit 3: Anther and pollen biology and Ovule	JAN - MAY 2024	34	Lecture Method, Audio-Visual Aids, Practical based classes, Student Seminars and Class tests	2 Hrs/Week	morphology, mode of reproduction, patterns of embryo development and economic and ecological importance.	
		GEC: Plant Diversity and Human Welfare	MAJOR	GECBOT2	Unit 4: Role of plants in relation to Human Welfare	JAN - MAY 2024	8	Lecture Method, Audio-Visual Aids, Debate and Class tests	4 Hrs/Week	To provide knowledge to the students on biodiversity and its importance for human welfare.	
		T	- 1		Unit 4: Central Dogma and Genetic Code			Lecture Method,		To impart knowledge of	
- 1		Molecular Biology	110110		Unit 5: Transcription		1000	Audio-Visual Aids, Practical based		the principles of heredity	
	i d	Molecular Biology	HONS.	C 8	Unit 6: Processing and modification of RNA	JAN - MAY 2024	32	classes, Student Seminars, Class tests		and different mechanisms of	
- 1					Unit 7: Translation			and Filed Trips		inheritance	
2		Plant Ecology &	1000		Unit 3: Biotic Interaction			Lecture Method.	9 Hrs/Week		
			HOME	C9	Unit 5: Plant Communities			Audio-Visual Aids,		To expose the students to different physiological	
		Phytogeography			Unit 6: Ecosystem: Structure and Function	JAN - MAY 2024	classes, Student			processes metabolic processes involved with	
	1				Unit 7: Phytogeography	Maria Grama		tests	U	plant life	
		Plant Ecology and Taxonomy	GE	GE 4	Unit 4: Ecosystem Unit 5: Phytogeography	JAN - MAY 2024	11	Lecture Method, Audio-Visual Aids,	4 Hrs/Week	To expose the students to interaction of plant life	

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					Unit 6: Introduction to plant taxonomy			Practical based classes, Student Seminars and Class		with the surroundings and also to identification,
					Unit 7: Identification  Unit 8: Taxonomic evidences from palynology, cytology, phytochemistry and molecular data		tests		classification and nomenclature of plant	nomenclature of plants
					Unit 12: Biometrics, Numerical taxonomy and cladistics					
3	VI	Plant Metabolism	HONS.	C 13	Unit 5: ATP-Synthesis	JAN - MAY 2024	26	Lecture Method, Audio-Visual Aids, Practical based classes, Student Seminars and Class tests	9 Hrs/Week	To expose the students to various metabolic processes involved with plant life
					Unit 6: Lipid metabolism					
					Unit 7: Nitrogen metabolism					
					Unit 8: Mechanisms of signal transduction					
		Plant Biotechnology	HONS.	C 14	Unit 2: Recombinant DNA technology	JAN - MAY 2024	26	Lecture Method, Audio-Visual Aids, Practical based classes and Filed Trips		To expose the students to application of modern tools and techniques in Biology
					Unit 3: Gene Cloning					
					Unit 4: Methods of gene transfer					

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