DEPARTMENT OF -BOTANY--

TEACHING PLAN-2023-2024

SEMESTER: ODDCOURSE: BSc Botany-

PROGRAMME: BSc

Plant Anatomy, Reproductive Botany & Palynology

CLASS: Isem UG

								Alichier			
	3. Megasporogenesis: development of formula	dehiscence of anther.	layers, development of male gameters.	2. Microsporogenesis: structure and function	Indian embryologists	angiosperm embryology with special	BSC I Sem- Reproductive Botany-1. Introduction to				WOOGE COVENED
anther	function of wall layers, development of	2. Microsporogenesis: structure and	Indian embryologists	embryology with special reference to	1.Introduction to angiosperm	Section Reproductive Botany-	BSC Sem Posses	3 7			MODULE AS PER SYLLABUS
							handled etc.)	additional hours	programmes,	(refresher/orientation	REMARKS

	1. Vascular bundles - Origin and types -	collateral, bi-collateral, open closed, radial,	
	Module - III	1. Vascular bundles - Origin and types - conjoint,	
	Angiosperm Anatomy-	Angiosperm Anatomy-Module – III	NOVEIVIBEK
			NOVEMBER
	economic and taxonomic importance		
e	ornamentation; pollen allergy,	taxonomic importance completed.	
	grains, apertural morphoforms, exine	exine ornamentation; pollen allergy, economic and	
	structure of pollen wall, shape of pollen	wall, shape of pollen grains, apertural morphoforms,	
	6. Palynology: pollen morphology,	6. Palynology: pollen morphology, structure of pollen	OCTOBER
		(Sagittaria) and endosperm types completed.	
	types	Structure of embryo dicot (Cypsella), monocot	
	monocot (Sagittaria) and endosperm	germination of pollen grains, double fertilization. 5.	
	5. Structure of embryo dicot (Cypsella),	4. Pollination, fertilization, barriers of fertilization,	
	grains, double fertilization.	Adoxa type completed.	
	fertilization, germination of pollen	Polygonum type, bisporic: Allium type, tetrasporic:	
	4. Pollination, fertilization, barriers of	embryosac- development and types- monosporic:	SEPTEMBER
	tetrasporic: Adoxa type.		
	Polygonum type, bisporic: Allium type,		
	development and types- monosporic:		
	female gametophyte, embryosac-		
	3. Megasporogenesis: development of	· Lu	

	Practicals completed.	account only) completed.	Primary structure of root, stem & leaf (brief	concentric - amphicribral and amphivasal.
leaf (brief account only)	2. Primary structure of root, stem &	and amphivasal.	closed, radial, concentric - amphicribral	conjoint, collateral, bi-collateral, open

Harana

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DEPARTMENT OF BOTANY

TEACHING PLAN-2023-2024

PROGRAMME:BSc

SEMESTER: EVEN

COURSE:BSc Botany-Mycology, Microbiology, Lichenology & Plant Pathology

CLASS:IIsem UG

3					2 20				DECEMBER		HTNOM
		HIV, Viriods, Prions completed	multiplication; Bacteriophages, TMV, Retroviruses,	3.Viruses- Classification, architecture and	Nutrition, Reproduction.	staining, ultra-structure of bacteria; Bacterial growth,	2.Bacteria-Classification based on morphology and	Microbiology.	BSc-II-Sem-Microbiology- 1. Introduction to		MODULE COVERED
HIV, Viriods, Prions.	Bacteriophages, TMV, Retroviruses,	architecture and multiplication;	3.Viruses— Classification,	growth, Nutrition, Reproduction.	structure of bacteria; Bacterial	morphology and staining, ultra-	2.Bacteria-Classification based on	Introduction to Microbiology.	BSc- II Sem-Microbiology- 1.		MODULE AS PER SYLLABUS
										programmes, examinations, additional hours handled etc.)	REMARKS (refresher/orientation

	formation and pioneers of Xerosere.	1	
	Pollution indicators, Lichen in Soil	formation and pioneers of Xerosere completed	
	Bioremediation, Ecological indicators,	Ecological indicators, Pollution indicators, Lichen in Soil	
	3. Toxicology, Lichens as food,	3. Toxicology, Lichens as food, Bioremediation,	MARCH
D.			
	importance. Type: Usnea		
	structure, reproduction, economic	completed.	
	2. Classification, growth forms,	reproduction, economic importance. Type: Usnea	
	mutualism.	2. Classification, growth forms, structure,	
	between the components symbiosis –	components symbiosis – mutualism.	
	1. Introduction: Type of Interaction	1. Introduction: Type of Interaction between the	
	BSc-II Sem-Lichenology-	BSc-II Sem-Lichenology-	FEBRUARY
	Vaccines: importance, mechanism.		
	6.Economic importance of bacteria,		
4	proteins	importance, mechanism completed.	
	acids, milk products single cell	6.Economic importance of bacteria, Vaccines:	
	5.Industrial microbiology-alcohol,	single cell proteins	
	and Phyllosphere.	5.Industrial microbiology—alcohol, acids, milk products	
		4. Microbial ecology – Rhizosphere and Phyllosphere.	
	BSc- Il Sem-Microbiology-	ose it sem-wicrobiology-	

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