Teaching Plan for the Session 2025-26 Name of the Teacher: Dr. Anita Mazinder Buragohain

Designation: Associate Professor Department: Botany

J.B. College (Autonomous)

Class/Semester	Title & Code of the Paper Allotted (Credit)	Method of Teaching	Teaching Material	Unit	Торіс	Period/Hours Required	Details of the Contents	Remarks/Books
Semester-I	BOTMJ-011: Algae and Bryophyta (Credit: 4)	Lecture, PPT, Chalk & Talk	Textbook, Diagrams, Charts		Chlorophyta and Charophyta	10 Hours		B.R. Vashishta, F.E. Fritsch
Semester-II	BOTMJ-021: Archegoniates (Credit: 4)	Lecture, PPT, Discussion	Textbook, Herbarium specimens		Introduction and Bryophytes	12 Hours	Unifying features of archegoniates, Alternation of generations, Classification, Morphology, Anatomy and Reproduction of Riccia, Marchantia	B.R. Vashishta, R.M. Sharma
Semester_III	BOTMJ-031: Plant	Lecture, Case study,	Charts, PPT	Unit 8	Phytopathology	10 Hours		Rangaswami & Mahadevan

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	Pathology (Credit: 4)	Visual Aids					Host-pathogen relationship, Control, Citrus canker, TMV, Late blight, Black stem rust	
		Lecture, PPT, Interactive session	Diagrams, Models		Cell Structure and Function	10 Hours	Prokaryotic and Eukaryotic cell features, Endosymbiotic theory, Membrane transport, Cell organelles, Nucleus	De Robertis, Powar
Semester-III	Plant Anatomy	Lecture, Practical, Models	Histological slides		Shoot apex, Tissues	8 Hours	Theories of shoot apex, Tissue types, applications in systematics, forensics	Esau, Fahn
Semester-IV	Economic Botany (Credit:	Lecture, Group Discussion, Charts	Samples, Charts	Units 1-3, 5-6	Economic Botany	14 Hours	Origin of cultivated plants, Wheat, Rice, Millets, Legumes, Spices, Beverages	Kochhar, Sambamurty
Semester-IV	Plant Breeding	Lecture, Case studies, Charts	Breeding charts	Unit 3	Plant Breeding	10 Hours		Chaudhary, Singh
Semester-V	Plant Systematics	Lecture, Field Work, Herbarium	Field samples, Charts		Taxonomy, Classification	12 Hours	Taxonomic hierarchy, Systems of classification, APG III, Contributions of Taxonomists	Radford, Singh
Semester-V	BOTMJ-052:	Lecture,	Texts, Slides	Unit	Reproductive	9 Hours	History and scope,	Bhojwani,

Class/Semester	Title & Code of the Paper Allotted (Credit)	Method of Teaching	Teaching Material	Unit	Topic	Period/Hours Required	Details of the Contents	Remarks/Books
	1	PPT, Diagrams		1 & 2	Development		Flower development and genetics	Maheshwari
Semester-V	Plant Physiology	II nagrams	Assay techniques		Growth Regulators	8 Hours	Discovery, bioassay and roles of Auxin, Cytokinin, Ethylene, etc.	Taiz & Zeiger
Semester-V	Classification	(nart	Diagrams, Charts		Classification Systems	7 Hours		Simpson, Lawrence

Note: The period/hours mentioned are approximate and subject to adjustment based on the academic calendar and student requirements.