ACADEMIC CALENDER 2021-2022

Department of Botany Session (2021-2024) B.Sc. Sem-I

MONTH	LESSON PLAN	STATUS
November 2021	SEM I CC-1 - Introduction to microbial world, Viruses, bacteria,	
December	CC-2 - Biomolecules, carbohydrates lipids, Proteins, Structure of amino acids	completed
January (2022)	CC-1 - Algae, Cyanophyta & Xanthophyta Ecology and Distribution of algae Significant contribution of important Phycologist. Biotechnology and industry	
February	CC-2 - Types of significant chemical bond Nomenclature of carbohydrates. Structure and properties of water.	completed
March	Definition and major classes of storage and structural lipids. fatty acids Structure and function. Essential fatty acids. function and properties	
April	CC-1 - Ecology & occurrence of Cyanophyta. Range of thallus organization Cell structure; Reproduction, Morphology	completed
May	and life cycle of chlamydomonas. CC-2 - Nucleic acids - structure of nitrogenous base. Bioenergetics - Laws of thermodynamics, concept of free energy	
June (2022)	CC-1 - Chlorophyta and charophyta General characteristics features. Phaeophyta and Rhodophyta.	
	CC-2 - Cell wall and plasma membrane Cell Organelles, cell division.	completed

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ACADEMIC CALENDER (2021-2022)

Department of Botany (Session 2018-2021)

MONTH	LESSON PLAN	STATUS
July 2021	SEM 5 (Paper DSE 1 & 2, CC-11, CC-12)	
	① Paper DSE1 - Horticultural Practices and Post harvest technology (Introduction, Ornamental Plants, fruit & Vegetable crops)	Completed
	(2) Analytical techniques in Plant science Imaging and related technique cell fractionation, Radioisotopes.	Completed
August	(3) Reproductive Biology of Angiosperms Introduction, Reproductive development Anther and pollen biology, Ovule, Pollination & fertilization, Self incompatibility Embryo, Endosperm & seed, Polyembryony	Completed
	(4) Plant Physiology (Plant Water relation, Physiology of flowering, Plant growth - regulator, Nutrient uptake, Mineral uptake Translocation in the phloem.	Completed
September	(Sem 6)	
	DSE 3 Plant breeding, Methods of crop improvement Quantitative Inheritance	Completed
	① DSE 4 - Research Methodology Basic concepts of research, General laboratory practices, Methods of study plant cell / tissue structure.	completed
October	Plant Metabolism (Metabolism, Carbon assimilation, Carbon oxidation, ATP synthesis Lipid metabolism Nitrogen metabolism.	completed
	Plant Biotechnology - Plant tissue culture, Recombinant DNA technology Gene cloning, Methods of gene transfer	Completed
November		

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ACADEMIC CALENDER 2021-2022

Department of Botany Session (2019-2022)

MONTH	LESSON PLAN	STATUS
JULY(2021)	SEM 3 CC-5 – Anatomy of Angiosperms CC-6 – Economic botany, Origin of cultivated plants CC-7 – Mendelian Genetics	completed
August	CC-5 – Tissues, Apical Meristems, Vascular cambium and wood CC-6 – cereals, legumes, Sources of sugars and starches	completed
September	CC-7 – Mendelism – genetics & its extension Extra chromosomal Inheritance, Linkage & Crossing over, variation in chromosome number and structure, Gene-mutation	completed
October	CC-5 – Adaptive and protective systems CC-6 – spices, Beverages, Sources of oils & fats, Natural rubber, drug yielding plants, Timber plants, fibres.	completed
November	Sem-3	
December	SEM-4 CC-8 Molecular Biology Nucleic acids – carriers of genetic information The structures of DNA and RNA, The replication of DNA, central dogma & genetic code · CC-9- Introduction	Completed
JANUARY 2022		
February	CC-9 – soil, water, Light, temperature wind and fire, Biotic Interactions. CC-10 – Plant Systematics – Significance of Plant systematics, taxonomic hierarchy Botanical nomenclature, System of classification.	
March 2022		Completed
April 2022	CC-8 – Transcription, Processing and modifications of RNA, Translation	
May 2022	CC-9 – Population ecology, Plant communities Ecosystems, functional aspects of ecosystem Phytogeography	
June 2022	CC-10 – Biometrics, numerical taxonomy and cladistics, Phylogeny of Angiosperms	completed

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ACADEMIC CALENDER 2021-2022

Department of Botany Session (2020-2023)

MONTH	LESSON PLAN	STATUS
JULY (2021)	SEM I CC-1 - Introduction to Microbial world, Viruses, Bacteria, Algae, Cyanophyta and Xanthophyta	completed
August	CC-2 - Biomolecules, Carbohydrates, Lipids, Proteins, structure of amino acids. Nucleic acids: A, B, Z types of DNA, Types of RNA	completed
September	chlorophyta and charophyta, Phaeophyta and Rhodophyta	
	CC-2 Bioenergetics, Enzymes, The cell, Cell-organelles, cytoskeleton, chloroplast, mitochondria and cell division	completed
October	SEM-2 CC-3 - Introduction to true fungi chytridiomycota and Zygomycota, Ascomycota, basidiomycota & Allied fungi	completed
November	CC-4 - Archegoniate Introduction, Bryophytes Type studies of Bryophytes, Pteridophytes	
	Type studies pteridophytes, Gymnosperm	completed
December	CC-3 - Oomycota - life cycle and classification with reference to Phytophthora, Albugo	
January (2022)	Symbiotic Associations: Lichen - occurrence and general characteristics features Growth forms & range of thallus organization	
February	Mycorrhiza - Ectomycorrhiza, Endomycorrhiza and their significance · Applied SEM-2 Mycology & Phytopathology	Completed
	CC-4 - Gymnosperm - General characteristics features, classification up to family, Morphology, Anatomy & reproduction of Cycad Pinus & Gnetum	Completed
March		
April	SEM-3 CC-5 - Morphology & Anatomy Anatomy of angiosperms	
	CC-6 - Economic Botany Origin of cultivated Plants	Completed

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ACADEMIC CALENDER 2021-2022

Department of Botany Session (2020-2023)

MONTH	LESSON PLAN	STATUS
April (2022)	SEM 3 CC-6 - cereals, legumes, sources of sugars and starches CC-7 - Genetics Mendelian genetics and its extension, Extra-chromosomal Inheritance Linkage and crossing over, Variation in chromosome number & Structure Gene - mutations. fine structure of gene, Population and Evolutionary genetics.	completed
May (2022)		completed
June (2022)	CC-5 - Tissues, Apical Meristems, Vascular cambium and wood, Adaptive and Protective systems. CC-6 - Spices, Beverages, Sources of oils and fats, Natural rubber, drug yielding Plants, Timber plants fibres.	completed completed

TEACHERS

1. Dr. I. P. Singh
2. Dr. Kumari Neha

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