

Teaching plan (session 2021-2022)

Class: BSc 1 Sem: I

Subject botany

Paper: I &II

Sr.no	Date	Topics to be covered
1	1.10.21- 4.10.21	General character, classification replication of viruses and importance
2	5.10.21-11.10.21	Mycoplasma, Bacteria: classification , Reproduction, Nutrition type
3	12.10.21-16.10.21	Oscillatoria, kingdom chromista: Albugo and Phytophthora
4	18.10.21–23.10.21	Kingdom zygomycota :Mucor AND test of topic covered
5	25.10.21–30.10.21	Kingdom Ascomycota : Saccharomyces Penicillium ,Peziza
6	1.11.21--6.11.21	Puccinia ,Ustilago ,Agaricus, Creospora, colletotrichum, lichens
7	8.11.21--13.11.21	Algae habitat range of thallus cell structure photosynthetic pigments
8	15.11.21–20.11.21	Algae cell wall, flagella, reserve food material and nutrition
9	22.11.21--27.11.21	Volvox ,Oedogonium Vaucheria
10	29.11.21–4–12.21	Ectocarpus,Sargassum,Batrachospermum
11	6.12.21--13.12.21	Pteridophytes

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Teaching plan (session 2021-2022)

Class: BSc 1 Sem: II

Subject botany

Paper: III

Sr.no	Date	Topics to be covered
1	21.3.22–26.3.22	General structure of cell, structure and function of nucleus,
2	28.3.22–9.4.22	Ultrastructure of nuclear membrane, nuclear pore, nucleolus
3	11.4.22--16.4.22	structure and function of cell organelles : mitochondria, plastids and ribosomes
4	18.4.22--23.4.22	Tests of covered topics
5	25.4.22--30.4.22	structure and function of cell organelles: Golgi bodies, ER ,peroxisomes, vacuoles
6	2.5.22—5.5.22	Extra nuclear genome: presence and function of mitochondrial and plastid DNA
7	6.5.22--10.5.22	Chromosome organization: morphology ,centrosome and telomere
8	11.5.22--17.5.22	Chromosome alterations ,Variations in chromosome number(aneuploidy and polyploidy) sex chromosome
9	18.5.22--21.5.22	Cell envelope: structure ,compositionand function of cell wall,structure ,composition and function of plasma membrane in microbes and plants
10	23.5.22--31.5.22	MST

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Teaching plan (session 2021-2022)

Class : BSc II Sem: III

Subject: Botany

Paper :V & VI

Sr.no	Date	Topics to be covered
1	25.8.21--31.8.21	GYMNOSPERM: General feature , classification, evolution and diversity
2	1.9.21--11.9.21	Geological time scale fossilization and fossil gymnosperms
3	13.9.21--18.9.21	General characters of pro gymnosperms, Archaeopteris, Seed habit
4	20.9.21-1.10.21	Cycas and Pinus morphology, anatomy reproduction and life cycle
5	4.10.21--9.10.21	Ephedra and Gnetum : morphology anatomy
6	11.10.21--19.10.21	Ephedra and Gnetum: reproduction and life cycle
7	20.10.21--26.10.21	Primitive and advance character of angiosperms
8	27.10.21--4.11.21	Angiosperms taxonomy aim and fundamental components
9	5.11.21--13.11.21	Identification keys ICBN ,taxonomic ranks, type concept
10	15.11.21-- 20..11.21	Salient features of Bentham and hooker, Hutchinson and Engler & Prantal
11	22.11.21--30.11.21	Technical description & taxonomic importance of Brassicaceae, Malvaceae, Rutaceae, Fabaceae, Cucurbitaceae, Solanaceae

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Teaching plan (session 2021-2022)

Class : BSc II Sem: IV

Subject botany

Paper: VII

Sr.no	Date	Topics to be covered
1	21.3.22 to 26.3.22	TISSUE System: epidermal structure and type of stomata, Idioblasts, trichomes, nectaries, hydathodes, parenchyma, collenchyma and sclerenchyma
2	28.3.22 to 9.4.22	Tests of topic covered
2	11.4.22--14.3.22	Vascular system, root system -root apical meristem and its histological
3	15.4.22--20.4.22	Anatomical detail of dicot and monocot root and shoot, the shoot apical meristem and its histological
4	21.4.22--27.4.22	cambium and its function AND tests of covered topics
5	27.4.22--2.5.22	secondary and Anomalous growth
6	3.5.22-9.5.22	Leaf: Anatomical detail of dicot and monocot, Leaf medication and their
7	9.5.22-16.5.22	Vegetative reproduction and its application in horticulture and floriculture
8	17.5.22--18.5.22	flower-inflorescence, structure of anther and pistil, male and female gametophyte, pollination, pollen pistil interaction
9	19.5.22--21.5.22	self incompatibility, double fertilization, post fertilization changes
10	21.5.22--23.5.22	seed structure and development, dormancy and dispersal, fruit development
11	23.5.2022-31.5.2022	MST

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Teaching plan (session 2021-2022)

Class: BSc III Sem: V

Subject botany

Paper: IX & X

Sr.No	Date	Topics to be covered
1	25.8.21--31.8.21	Importance of H ₂ O to plant life ,diffusion and osmosis
2	1.9.21--11.9.21	Absorption of H ₂ O,transpiration,mechanism of stomata opening and closing
3	13.9.21--18.9.21	Macro and micro elements and their role deficiency and toxicity symptoms
4	20.9.21--1.10.21	Mechanism of phloem transport, source –sink relationship
5	2.10.21--9.10.21	Concept of enzyme, holoenzyme, apoenzyme, coenzyme and cofactor
6	11.10.21--19.10.21	Photosynthesis photosynthetic pigments action spectra, enhancement effect
7	20.10.21--26.10.21	Phosphorylation, calvin cycle C ₄ pathway
8	27.10.21--4.11.21	Krebs cycle electron transport mechanism pentose phosphate pathway
9	5.11.21--13.11.21	Nitrogen metabolism
10	15.11.21--20.11.21	plant hormone physiological effects, photomorphogenesis
11	22.11.21--30.11.21	Photoperiodism, vernalization biological clocks seed dormancy

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Teaching Plan (Session 2021-2022)

Class: Bsc III Sem: V

Subject Botany

Paper: XI

Sr.No	Date	Topics To Be Covered
1	21.3.22--6.3.22	Concept Of Ecology And Its Scope ,Environmental Factors : Climatic , Edaphic ,Topographic And Biotic Factor
2	28.3.22- 9.4.22	Shelford's Law Of Tolerance,Population Ecology,Positive And Negative Interaction
3	11.4.22- 16.4.22	Carrying Capacity, Ecotypes And Ecads ,Community Ecology
4	18.4.22--23.4.22	Ecological Succession, Gause Principle Of Competitive Exclusion,Pyramids,Ecosystem,
5	25.4.22--30.4.22	Food Chain And Web,Ecological Energetics And Productivity ,Environmental Issues
6	2.5.22--5.5.22	Global Warming And Ozone Depletion
7	6.5.22	Tests Of Topic Done
8	7.5.22--10.5.22	International Efforts To Mitigation Of Global Climate Change ,Biodiversity and Its Elements ,Conservation Strategies, Concept Of Hot Spot ,Biomes
9	11.4.5.22--17.5.22	Phytogeographic Regions Of India, Vegetation Types Ecological Adaptation In Xerophytes And Hydrophytes
10	18.5.22--21.5.22	Biogeochemical Cycles
11	23.5.2022- 31.5.222	MST

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