

Teaching Plan (Session 2020-2021)

Class: Bsc 1 Sem: I

Subject Botany

Paper: I &II

Sr.No	Date	Topics To Be Covered
1	1-5 SEPTEMBER	General Character, Classification Replication Of Viruses And Importance
2	7- 12 SEPTEMBER	Mycoplasma, Bacteria: Classification , Reproduction, Nutrition Type
3	14-19 September	Oscillatoria, Kingdom Chromista: Albugo And Phytophthora
4	21-26 September	Kingdom Zygomycota :Mucor
5	28-03 OCTOBER	Kingdom Ascomycota : Saccharomyces Pencillium ,Peziza
6	05 -10 OCTBER	Puccinia ,Ustilago ,Agaricus, Crecospora, Colletotrichum, Lichens
7	12-17 OCTOBER	Algae Habitat Range Of Thallus Cell Structure Photosynthetic Pigments
8	19 -24 OCTOBER	Algae Cell Wall, Flagella, Reserve Food Material And Nutrition
9	26-30 OCTOBER	Volvox ,Oedogonium Vaucheria
10	1-12 NOVEMBER	MST
11	16-21 NOVEMBER	Ectocarpus,Sargassum ,Batrachospermum
12	23 -29 NOVEMBER	Bryophyte :Marchantia ,Anthoceros ,Funaria And Pteridophytes

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Teaching Plan (Session 2020-2021)

Class: Bsc 1 Sem: II

Subject Botany

Paper: III ,IV

Sr.No	Date	Topics To Be Covered
1	18.1.21--25.1.21	General Structure Of Cell, Structure And Function Of Nucleus, Nuclear Membrane, Pore,Nucleolus
2	26.1.21--2.2.21	Structure And Function Of Cell Organelles:Mitochondria,Plastids And Ribosomes ,Test Of Topic Done
3	3.2.21--13.2.21	Golgi Bodies, Peroxisomes And Vacuoles
4	15.2.21--22.2.21	Extra Nuclear Genome: Mitochondria And Plastid dna
5	23.2.21--1.3.21	Chromosome Organization: Morphology ,Centrosome telomere
6	2.3.21--13.3.21	Chromosome Alterations
7	15.3.21--22.3.21	Variations In Chromosome Number, Cell Envelope,Structure And Composition Of Plasma Membrane In Microbes And Plants
8	23.3.21--10.4.21	DNA Structure, Replication, Nucleosome Model,Genetic Code,Cell Division,Mendel's Law Of Inheritance,
9	12.4.21--19.4.21	Allergic And Non Allergic Interaction, Transcription Translation,
10	20.4.21--24.4.21	Protein Synthesis, Mutation, Transposable Genetic Elements
11	26.4.21--4.5.21	MST
12	10.5.21--2.2.5.21	Theories Of Lamarck Darwin,De Vries

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Teaching Plan (Session 2020-2021)

Class: Bsc III Sem: V

Subject Botany

Paper: IX X

Sr.No	Date	Topics To Be Covered
1	1-5 September	Importance Of H ₂ O To Plant Life ,Diffusion And Osmosis
2	7- 12 September	Absorption Of H ₂ O,Transpiration,Mechanism Of Stomata Opening And Closing
3	14-19 September	Macro And Micro Elements And Their Role Deficiency And Toxicity Symptoms
4	21-26 September	Mechanism Of Phloem Transport, Source –Sink Relationship
5	28-03 October	Concept Of Enzyme, Holoenzyme, Apoenzyme, Coenzyme And Cofactor
6	05 -10 Octber	Photosynthesis Photosynthetic Pigments Action Spectra, Enhancement Effect
7	12-17 October	Phosphorylation, Calvin Cycle C ₄ Pathway
8	19 -24 October	Krebs Cycle Electron Transport Mechanism Pentosephosphate Pathway
9	26-30 October	Nitrogen Metabolism
10	1-12 November	MST
11	16-21 November	Plant Hormone Physiological Effects Photomorphogenesis
12	23 -29 November	Photoperiodism, Vernalization Biological Clocks Seed Dormancy

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Teaching Plan (Session 2020-2021)

Class: Bsc II Sem: III

Subject Botany

Paper: V & VI

Sr.No	Date	Topics To Be Covered
1	1-5 SEPTEMBER	GYMNOSPERM: General Feature , Classification, Evolution And Diversity
2	7- 12 SEPTEMBER	Geological Time Scale Fossilization And Fossil Gymnosperms
3	14-19 September	General Characters Of Pro Gymnosperms, Archaeopteris, Seed Habit
4	21-26 September	Cycas And Pinus Morphology, Anatomy Reproduction And Life Cycle
5	28-03 OCTOBER	Epedera And Gnetum : Morphology Anatomy
6	05 -10 OCTBER	Epedera And Gnetum: Reproduction And Life Cycle
7	12-17 OCTOBER	Primitive And Advance Character Of Angiosperms
8	19 -24 OCTOBER	Angiosperms Taxonomy Aim And Fundamental Components
9	26-30 OCTOBER	Identification Keys ICBN ,Taxonomic Ranks, Type Concept
10	1-12 NOVEMBER	MST
11	16-21 NOVEMBER	Salient Features Of Bentham And Hooker ,Hutchinson And Engler & Prantal
12	23 -29 NOVEMBER	Technical Description &Taxonomic Importance Of Brassicaceae, Malvaceae,Rutaceae,Favaceae,Cucurbitaceae,Solanaceae

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Teaching Plan (Session 2020-2021)

Class : Bsc II Sem: IV

Subject Botany

Paper: VII VIII

Sr.No	Date	Topics To Be Covered
1	18.1.21--23.1.21	TISSUE System: Epidermal Structure And Type Of Stomata
2	25.1.21--30.1.21	Idioblasts, Trichomes, Nectaries, Hydathodes, Parenchyma, Collenchyma, Sclerenchyma
3	1.2.21--6.2.21	Test Of Topic Done
4	8.2.21-13.2.21	Vascular System, Roots System
5	15.2.21--20.2.21	Anatomical Detail Of Dicot And Monocot Root
6	22.2.21--27.2.21	Shoot Apical Meristem And Its Histological Organisation
7	1.3.21--6.3.21	Anatomical Detail Of Dicot And Monocot Shoot
8	8.3.21--13.3.21	Cambium And Its Function
9	15.3.21--20.3.21	Secondary And Anomalous Growth
10	22.3.21--1.4.21	Leaf: Anatomical Detail Of Dicot And Monocot
11	2.4.21--10.4.21	Leaf Medication And Their Function
12	12.4.21--17.4.21	Tests Of Topics Done And Vegetative Growth, Applications In Floriculture And Horticulture
13	19.4.21--24.4.21	Flower Description
14	26.4.21--4.5.21	MST
15	5.5.21--10.5.21	Male And Female Gametophytes, Pollination Pollen Pistil Interaction, Self Incompatibility
16	11.5.21--16.5.21	Double Fertilization
17	17.5.21--22.5.21	Post Fertilization Changes Endosperm And Embryo Development
18	23.5.21 --26.5.21	Dormancy Fruit Types And Development
19	27.5.21--1.5.21	Topic Revision

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Teaching Plan (Session 2020-2021)

Class: Bsc III Sem: V

Subject Botany

Paper: XI And XII

Sr.No	Date	Topics To Be Covered
1	18.1.21--23.1.21	Concept Of Ecology And Its Scope ,Environmental Factors : Climatic , Edaphic And Topographic And Biotic Factor, Shelfords Law Of Tolerance
2	25.1.21--30.1.21	Population Ecology, Community Ecology
3	1.2.21--13.2..21	Carrying Capacity, Ecotypes And Ecads, Ecological Succession, Gause Principle Of Cexclusion
4	15.2.21--20.2.21	Ecosystem, Ecological Pyramids, Food Chains, Food Web
5	22.2.21-27..2.21	Environmental Issues, International Efforts To Mitigate Global Warming, Biodiversity And Conservation
6	1.3 221--6.3.21	Phytogeographic Regions Of India, Vegetation Types
7	8.3.21--13.3.21	Ecological Adaptation And Biogeochemical Cycles
8	15.3.21--22.3.21	Importance And Nature Of Plant Products, Forest Products
9	24.3.21-31.3.21	History And Cultivation Practice Of Cereal, Vegetables
10	1.4.21--10.4.21	Technical Descriptions Of Medicinal Plants And Beverages And Major Plants Parts Utilization
11	12.4.21__24..4.21	Rubber Plants
12	26.4.21 --4.5.21	MST
13	5.5.5.21-10.5.21	Revision Of Topics Done
14	10.5.21 --17.5.21	Group Discussion Of Topics Done
15	19.5.21--24.5.21	Ingredients Of Tea And Coffee
16	25.5.21--1.5.21	Ingredients Of Tobacco, Opium

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GOVERNMENT SHIVALIK COLLEGE NAYA NANGAL

DEPARTMENT OF BOTANY

TIME TABLE: BSC (M)

SESSION: 2020- 21

TIME CLASS	1	2	3	4	5	6	7	8	9
						Practical			
BSC I		Dr.BINDU (1-6)				Dr. BINDU WEDNESDAY			
BSC II			Dr.BINDU (1-6)				Dr.Bindu Friday		
BSCIII				Dr.Bindu (1-6)		Dr.BINDU MONDAY			

GOVERNMENT SHIVALIK COLLEGE NAYA NANGA

DEPARTMENT OF BOTANY

WORK LOAD 2020-21(23-8-2021)

Dr.BINDU SHARMA

	THEORY PERIOD	PRACTICAL	TOTAL
BSC I	6	3	9
BSC II	6	3	9
BSC III	6	3	9
Grand total	18	9	27

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