

## Teaching Plan

Name of the teacher: Dr. Kabnoorkar P. S.	Year: 2020-2021
Semester: I	
Subject: Botany	Paper: PLANT LIFE AND UTILIZATION I
	Class: F. Y. B. Sc.

Part I : Teaching Plan						Part II : Evaluation of Plan			
1	2	3	4	5	6	7	8	9	10
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	July 2021	2	3	3	General outline of plant kingdom	3	General outline of plant kingdom	Nil	--
	July 2021	4	3	3	ALGAE - Introduction, General Characters, Classification (Bold and Wynne 1978)	3	ALGAE - Introduction, General Characters, Classification (Bold and Wynne 1978)	Nil	
2	August 2021	1 & 2	11	6	Life Cycle of <i>Spirogyra</i> - Habit, Habitat, Structure of thallus, structure of typical cell, Reproduction- Vegetative, Asexual, Sexual Life Cycle & Systematic position, Utilization of Algae in Biofuel Industry, Agriculture, Pharmaceuticals, Food and Fodder	6	Life Cycle of <i>Spirogyra</i> - Habit, Habitat, Structure of thallus, structure of typical cell, Reproduction- Vegetative, Asexual, Sexual Life Cycle & Systematic position, Utilization of Algae in Biofuel Industry, Agriculture, Pharmaceuticals, Food and Fodder	01	Extra Lecture is conducted on Sunday

3	Sept 2021	1 & 2	12	6	<b>LICHENS</b> - Introduction & General Characters, Nature of Association, forms- Crustose, Foliose and Fruticose. Utilization of lichens. <b>FUNGI</b> – Introduction, General Characters, Classification (Ainsworth, 1973)	6	<b>LICHENS</b> - Introduction & General Characters, Nature of Association, forms- Crustose, Foliose and Fruticose. Utilization of lichens. <b>FUNGI</b> – Introduction, General Characters, Classification (Ainsworth, 1973)	Nil	--
4	Sept 2021	3 & 4	12	6	Life Cycle of Mushroom- <i>Agaricus bisporus</i> - Habit, Habitat, Structure of thallus, Structure of Sporocarp, Structure of Gill, Reproduction- Asexual	6	Life Cycle of Mushroom- <i>Agaricus bisporus</i> - Habit, Habitat, Structure of thallus, Structure of Sporocarp, Structure of Gill, Reproduction- Asexual	Nil	--
5	Oct 2021	1 & 2	12	6	Reproduction sexual, Life Cycle & Systematic position. Utilization of Fungi in Industry, Agriculture, Food and Pharmaceuticals	6	Reproduction sexual, Life Cycle & Systematic position. Utilization of Fungi in Industry, Agriculture, Food and Pharmaceuticals	Nil	--
6	Oct 2021	3 & 4			<b>BRYOPHYTES</b> - Introduction, General Characters & Classification (G.M. Smith 1955) Life Cycle of <i>Riccia</i> - Habit, habitat, external and internal structure of thallus Reproduction, Fertilization, structure of mature sporophyte, structure of spore, systematic position, Utilization: Bryophytes as ecological indicators, agriculture, fuel, industry and medicine		<b>BRYOPHYTES</b> - Introduction, General Characters & Classification (G.M. Smith 1955) Life Cycle of <i>Riccia</i> - Habit, habitat, external and internal structure of thallus Reproduction, Fertilization, structure of mature sporophyte, structure of spore, systematic position, Utilization: Bryophytes as ecological indicators, agriculture, fuel, industry and medicine	Nil	--

Arts, Science and Commerce College, Indapur, Dist. Pune  
**TEACHING AND EVALUATION PLAN**


Name of the teacher: Dr. Mahadik B. B.	Year: 2020-2021
Semester: I	
Subject: Plant Morphology And Anatomy	Paper: II
	Class: F.Y.B.Sc

Part I : Teaching Plan						Part II : Evaluation of Plan			
1	2	3	4	5	6	7	8	9	10
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Nov2020	3 & 4	9	6	<b>MORPHOLOGY:</b> Introduction, definition, descriptive and interpretative morphology. Importance <b>INFLORESCENCE:</b> Introduction & definition, Types Significance	3	<b>MORPHOLOGY:</b> Introduction, definition, descriptive and interpretative morphology. Importance <b>INFLORESCENCE:</b> Introduction & definition, Types Significance	Nil	--
2	Dec 2020	1 & 2	12	7	<b>FLOWER:</b> Introduction, Parts of Flower Symmetry, Floral Whorls : Calyx, Corolla, Androecium, Gynoecium	7	<b>FLOWER:</b> Introduction, Parts of Flower Symmetry, Floral Whorls : Calyx, Corolla, Androecium, Gynoecium	Nil	--
3	Dec 2020	3 & 4	11	5	<b>FRUITS:</b> Types <b>ANATOMY</b> Introduction and definition	5	<b>FRUITS:</b> Types <b>ANATOMY</b> Introduction and definition	1	Extra lecture was conducted on Sunday
4	January 2021	1 & 2	11	8	<b>TYPES OF TISSUES</b> Outline with brief description, simple and complex tissues	8	<b>TYPES OF TISSUES</b> Outline with brief description, simple and complex tissues	Nil	--




5	January 2021	3.8	4	12	5	INTERNAL ORGANIZATION OF PRIMARY PLANT BODY Internal structure of dicotyledon and monocotyledon root, Internal structure of dicotyledon and monocotyledon stem, Internal structure of dicotyledon and monocotyledon leaf.	5	INTERNAL ORGANIZATION OF PRIMARY PLANT BODY Internal structure of dicotyledon and monocotyledon root, Internal structure of dicotyledon and monocotyledon stem, Internal structure of dicotyledon and monocotyledon leaf.	Nil	--
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Signature of Teacher

  
Signature of Head of Department  
Department of Botany  
Arts, Science & Commerce  
College, Indapur, Dist. Pune

  
Signature of In-charge  
Science Faculty  
Arts, Science & Commerce  
College, Indapur, Dist. Pune

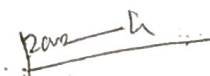
  
Signature of the Principal  
ARTS, SCIENCE AND  
COMMERCE COLLEGE  
INDAPUR-413109 DIST. PUNE


Name of the teacher: Dr. Kabnoorkar P. S.	Year: 2020-2021
Semester: II	
Subject: Botany	Paper: PLANT LIFE AND UTILIZATION II
	Class: F. Y. B. Sc.

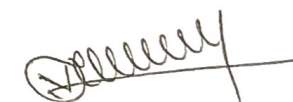
Part I : Teaching Plan					Part II : Evaluation of Plan				
1	2	3	4	5	6	7	8	9	10
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Nov2020	3 & 4	9	6	INTRODUCTION Introduction to plant diversity- Pteridophytes Gymnosperms Angiosperms with reference to vascular plants Introduction & General characters Outline classification according to Sporne (1976) up to classes with reasons. Life cycle of <i>Nephrolepis</i> - Habit, habitat, distribution, morphology Anatomy of stem	6	INTRODUCTION Introduction to plant diversity- Pteridophytes Gymnosperms Angiosperms with reference to vascular plants Introduction & General characters Outline classification according to Sporne (1976) up to classes with reasons. Life cycle of <i>Nephrolepis</i> - Habit, habitat, distribution, morphology Anatomy of stem Anatomy of leaf Reproduction – vegetative	Nil	--


					Anatomy of leaf Reproduction – vegetative Reproduction asexual Reproduction sexual Fertilization		Reproduction asexual Reproduction sexual Fertilization		
2	Dec 2020	1 & 2	12	6	Alternation of generation & Life Cycle of <i>Nephrolepis</i> Utilization and economic importance of Pteridophytes Introduction & General Characters Outline-classification according to Sporne (1977) up to classes with reasons. Life cycle of <i>Cycas</i> - Habit, Habitat, Distribution, Morphology	6	Alternation of generation & Life Cycle of <i>Nephrolepis</i> Utilization and economic importance of Pteridophytes Introduction & General Characters Outline classification according to Sporne (1977) up to classes with reasons. Life cycle of <i>Cycas</i> - Habit, Habitat, Distribution, Morphology	Nil	--
3	Dec 2020	3 & 4	11	6	Anatomy of Stem, Anatomy of leaf Reproductive organs- Male cone, Microsporophyll, microspores Megasporephyll, megaspore & structure of seed Utilization and economic importance of gymnosperms.	6	Anatomy of Stem, Anatomy of leaf Reproductive organs- Male cone, Microsporophyll, microspores Megasporephyll, megaspore & structure of seed Utilization and economic importance of gymnosperms.	Nil	
4	January 2021	1 & 2	11	6	ANGIOSPERMS Introduction & General characters Outline of classification of Bentham and Hooker's system up to series class- Dicotyledons Outline of classification of	6	ANGIOSPERMS Introduction & General characters Outline of classification of Bentham and Hooker's system up to series class- Dicotyledons Outline of classification of Bentham and Hooker's system up	Nil	--

					Bentham and Hooker's system up to series class- Monocotyledons Comparative account of monocotyledons and dicotyledons.		to series class- Monocotyledons Comparative account of monocotyledons and dicotyledons.		
5	January 2021	3 & 4	12	6	Utilization and economic importance of Angiosperms Introduction & Angiosperms as food, fodder Angiosperms as fibers, horticulture Angiosperms as medicines	6	Utilization and economic importance of Angiosperms Introduction & Angiosperms as food, fodder Angiosperms as fibers, horticulture Angiosperms as medicines	Nil	-

  
Signature of Teacher

  
Signature of Head of Department  
Department of Botany  
Arts, Science & Commerce  
College, Indapur Dist-Pune

  
Signature of Faculty In-charge  
Science Faculty  
Arts, Science & Commerce  
College, Indapur, Dist. Pune

  
PRINCIPAL  
Signature of the Principal  
ARTS, SCIENCE & COMMERCE COLLEGE  
INDAPUR, DIST. PUNE  
11/11/2021, 12.37 11/11/2021



TEACHING AND EVALUATION PLAN

Name of the teacher: Mahadik B.B.	Year: 2020-2021
Semester: II	
Subject: Principles of plant science	Paper: II
	Class: F.Y .B. Sc

Part I : Teaching Plan						Part II : Evaluation of Plan			
1	2	3	4	5	6	7	8	9	10
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Jan 2021	1 & 2	5	5	Introduction, definition and scope of plant physiology. Diffusion – definition, importance of diffusion in plants, imbibition as a special type of diffusion. Osmosis – definition, types of solution endosmosis, exo-osmosis, osmotic pressure, turgor pressure, wall pressure, importance of osmosis in plants. Plasmolysis – definition, mechanism and significance.	5	Introduction, definition and scope of plant physiology. Diffusion – definition, importance of diffusion in plants, imbibition as a special type of diffusion. Osmosis – definition, types of solution endosmosis, exo-osmosis, osmotic pressure, turgor pressure, wall pressure, importance of osmosis in plants. Plasmolysis – definition, mechanism and significance.	Nil	--
2	Jan 2021	3 & 4	12	9	Plant growth - introduction, phases of growth, factors affecting growth, Plasmolysis – definition, mechanism and significance. Plant growth - introduction, phases of growth, factors affecting growth.	Nil	Plant growth - introduction, phases of growth, factors affecting growth, Plasmolysis – definition, mechanism and significance. Plant growth - introduction, phases of growth, factors affecting growth.	Nil	--



					Structure of plant cell, differences between prokaryotic and eukaryotic cell, Plant cell wall – components of primary cell wall, structure and functions.	9	Structure of plant cell, differences between prokaryotic and eukaryotic cell, Plant cell wall – components of primary cell wall, structure and functions.		
3	Feb 2021	1 & 2	11	10	Ultrastructure and functions of chloroplast Cell cycle in plants- importance of cell cycle in plants, divisional stages of mitosis and meiosis. Introduction and scope of molecular biology	10	Ultrastructure and functions of chloroplast Cell cycle in plants- importance of cell cycle in plants, divisional stages of mitosis and meiosis. Introduction and scope of molecular biology	1	Extra lecture was conducted on sunday
4	Feb 2021	3 & 4	12	10	Structure of DNA, nucleoside and nucleotide Watson Crick model of DNA and its characteristic features, types of DNA (A, B and Z DNA). Types of chromosomes	10	Structure of DNA, nucleoside and nucleotide Watson Crick model of DNA and its characteristic features, types of DNA (A, B and Z DNA). Types of chromosomes	Nil	
5	Mar 2021	1 & 2	12	8	Structure and types of RNA. DNA replication- Types of replication (conservative, semi-conservative and dispersive), enzymes involved, leading and lagging strands, Okazaki fragments.	8	Structure and types of RNA. DNA replication- Types of replication (conservative, semi-conservative and dispersive), enzymes involved, leading and lagging strands, Okazaki fragments.	Nil	

Signature of Teacher

Signature of Head of Department

Signature of Faculty In-charge

Signature of the Principal

Head  
Department of Botany  
Arts, Science & Commerce  
College, Indapur Dist. Pune

Incharge  
Science Faculty  
Arts, Science & Commerce  
College, Indapur, Dist. Pune

Principal  
Arts, Science & Commerce  
College, Indapur, Dist. Pune