

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

Name of the teacher: Dr. Kabnoorkar P. S.	Year: 2022-2023
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
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
1	July 2022	2	3	3	General outline of plant kingdom	3	General outline of plant kingdom	Nil
	July 2022	4	3	3	ALGAE - Introduction, General Characters, Classification (Bold and Wynne 1978)	3	ALGAE - Introduction, General Characters, Classification (Bold and Wynne 1978)	Nil
					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 industry, Food, Biofuel, Pharmaceuticals, Fodder Agriculture,		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

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				structure of thallus Reproduction, Fertilization, structure of mature sporophyte, structure of spore, systematic position, Utilization: Bryophytes as ecological indicators, agriculture, fuel, industry and medicine	Fertilization, structure of mature sporophyte, structure of spore, systematic position, Utilization: Bryophytes as ecological indicators, agriculture, fuel, industry and medicine
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Signature of Teacher

Signature of Head of Department

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

Signature of Faculty In-charge

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

Signature of the Principal

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

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

Name of the teacher: Jagtap A.J.
Semester: II

Year: 2022-2023

Subject: Principles of plant science

Paper: II

Class: F.Y.B.Sc

Part I : Teaching Plan					Part II : Evaluation of Plan				
1 Sr. No.	2 Month	3 Week	4 No. of working days	5 No. of periods available	6 Topics to be taught	7 No. of periods engaged	8 Topics taught	9 Deviation in periods	10 Remarks
1	Jan 2023	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 2023	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.		
				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
3	Feb 2023	1 & 2	11	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	
4	Feb 2022	3 & 4		10				
				Structure and types of RNA. DNA replication (conservative, semi-conservative and dispersive), enzymes involved, leading and lagging strands, Okazaki fragments.	8	Structure and types of RNA. DNA replication (conservative, semi-conservative and dispersive), enzymes involved, leading and lagging strands, Okazaki fragments.	Nil	
5	Mar 2023	1 & 2	12	8				

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Incharge
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College, Indapur, Dist-Pune

Name of the teacher: Dr. Kabnoorkar P. S.
Semester: II

Year: 2022-2023

Subject: Botany
Sc.

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
					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		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 Reproduction asexual Reproduction sexual Fertilization		Anatomy of stem Anatomy of leaf Reproduction – vegetative Reproduction asexual Reproduction sexual Fertilization		
1	Jan 2022	4	9	6		6		Nil	
		3 &							
					Alternation of generation & Life Cycle of <i>Nephrolepis</i> Utilization and economic importance of Pteridophytes	6	Alternation of generation & Life Cycle of <i>Nephrolepis</i> Utilization and economic importance of Pteridophytes	Nil	
2	Jan 2022	11 & 12	2	6		6		Nil	

					Introduction & General Characters Outline classification according to Sporne (1977) up to classes with reasons. Life cycle of <i>Cycas</i> - Habit, Habitat, Distribution, Morphology		Introduction & General Characters Outline classification according to Sporne (1977) up to classes with reasons. Life cycle of <i>Cycas</i> - Habit, Habitat, Distribution, Morphology	
3	Feb 2023	3 & 4	11	6	Anatomy of Stem, Anatomy of leaf Reproductive organs- Male cone, Microsporophyll, microspores Megasporophyll, megaspore & structure of seed Utilization and economic importance of gymnosperms.	6	Anatomy of Stem, Anatomy of leaf Reproductive organs- Male cone, Microsporophyll, microspores Megasporophyll, megaspore & structure of seed Utilization and economic importance of gymnosperms.	Nil
					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 to series class-Monocotyledons Comparative account of monocotyledons and dicotyledons.		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 to series class-Monocotyledons Comparative account of monocotyledons and dicotyledons.	
4	Feb 2023	1 & 2	11	6		6		Nil

			Utilization and economic importance of Angiosperms Introduction & Angiosperms as food, fodder Angiosperms as fibers, horticulture Angiosperms as medicines	Utilization and economic importance of Angiosperms Introduction & Angiosperms as food, fodder Angiosperms as fibers, horticulture Angiosperms as medicines	
5	March 2023	1,2	12	6	6
					Nil

[Signature]
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Arts, Science and Commerce College, Indapur, Dist. Pune
TEACHING AND EVALUATION PLAN

Name of the teacher: Mahadik B.B.
Semester: I

Year: 2022-23

Subject: Plant Morphology and Anatomy

Paper: II

Class: F Y B.Sc

Part I : Teaching Plan						Part II : Evaluation of Plan			
1 Sr. No.	2 Month	3 Week	4 No. of working days	5 No. of periods available	6 Topics to be taught	7 No. of periods engaged	8 Topics taught	9 Deviation in periods	10 Rem
1	July 2022	3 & 4	12	5	Morphology Introduction Morphology of Reproductive Parts : Inflorescence	5	Morphology Introduction Morphology of Reproductive Parts : Inflorescence	Nil	-
2	Aug 2022	3 & 4	8	6	Morphology of Reproductive Parts Flower	6	Flower Fruits	Nil	Ex lec Su
2	Aug 2022	1 & 2	10	6	Morphology of Reproductive Parts : Fruits	4	Flower Fruits	2	
3	Sep 2022	4	11	7	Anatomy Introduction, Types of Tissues, Internal Organization of Primary Plant Body	7	Anatomy Introduction, Types of Tissues, Internal Organization of Primary Plant Body	Nil	
4	Oct 2022	1 & 2	12	8	Anatomy Introduction, Types of Tissues, Internal Organization of Primary Plant Body	8			

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