

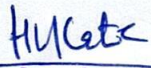
Koyana Education Society, Patan
BALASAHEB DESAI COLEGE, PATAN
DEPARTMENT OF BOTANY

SEMESTER TEACHING PLAN
Academic Year 2023-2024
Semester I

Class: B.Sc. I Dr.B.V.Jadhav

Paper No.: II (Theory) Cell Biology & Analytical Techniques

Month	No. of Teaching Days	Periods Allotted	Unit / Topic	Subunits Planned
July	23	10+2	Paper II : 1.1	Cell as a Structural and functional unit of life
August	25	11+4	1.2	Cell Organelles and cell membrane
September	18	7+3	2.1	Cell Division
October	24	10+3	2.2	Microscopy
November	8	2	2.2	Chromatography


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Academic Year 2023-2024 Monthly Teaching Plan Semester I
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Subject: Botany Dr. B. V. Jadhav
Paper No: II (Theory) Cell Biology & Analytical Techniques

Class: B.Sc.
Month: July

Date	Day	Unit and Subunits	Teaching method and Aids
03/07/2023	Monday	Introduction & Definition Cell	Lecture, Review lesson Teaching Aids Computer LCD PPT YouTube
04/07/2023	Tuesday	Structure Prokaryotic Cell	
10/07/2023	Monday	Structure of Eukaryotic Cell	
11/07/2023	Tuesday	Structure and difference between Prokaryotic and Eukaryotic Cell	
14/07/2023	Friday	Plant cell wall structure	
17/07/2023	Monday	Plant cell wall function	
18/07/2023	Tuesday	Revision on topic Structure and difference between Prokaryotic and Eukaryotic Cell	
24/07/23	Monday	Notes given to students Structure and difference between Prokaryotic and Eukaryotic Cell	
25/07/2023	Tuesday	Notes given to students Plant cell wall structure and function.	
28/07/2023	Friday	Question and answers session	


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Academic Year 2023-2024 Monthly Teaching Plan Semester I
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Subject: Botany Dr. B.V.Jadhav
 Paper No.: II (Theory) Cell Biology & Analytical Techniques

Class: B.Sc. I
 Month: August

Date	Day	Time	Unit and Subunits	Teaching method and Aids
1/08/23	Tuesday	1.50 to 2.40	Introduction -Cell organelles and Cell membrane	Lecture, Review lesson Teaching Aids Computer LCD PPT YouTube
7/08/23	Monday	2.40 to 3.30	Ultrastructure and function of Chloroplast	
8/08/2023	Tuesday	1.50 to 2.40	Notes on Ultrastructure and function of Chloroplast	
11/08/2023	Friday	1.00 to 1.50	Ultrastructure and function of Mitochondrion	
14/08/2023	Monday	2.40 to 3.30	Notes on Ultrastructure and function of Mitochondrion	
18/08/23	Friday	1.00 to 1.50	Ultrastructure and function of Ribosomes	
21/08/2023	Monday	2.40 to 3.30	Notes on Ultrastructure and function of Ribosomes	
22/08/2023	Tuesday	1.50 to 2.40	Ultrastructure and function of Endoplasmic Reticulum	
25/08/2023	Friday	1.00 to 1.50	Notes on Ultrastructure and function of Endoplasmic Reticulum	
28/08/2023	Monday	2.40 to 3.30	Ultrastructure and function of Lysosomes and Peroxisomes	
29/08/2023	Tuesday	1.50 to 2.40	Question and answers session	


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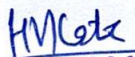
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Semester I

Subject: Botany Dr. B.V.Jadhav
Paper No.: II (Theory) Cell Biology & Analytical Techniques

Class: B.Sc. I
Month: September

Date	Day	Time	Unit and Subunits	Teaching method and Aids
04/09/2023	Monday	2.40 to 3.30	Cell Division Cell cycle and its importance	Teaching method Lecture, Review lesson Teaching Aids Computer LCD PPT YouTube
05/08/2023	Tuesday	1.50 to 2.40	Phases of cell Cell cycle	
08/09/2023	Friday	1.00 to 1.50	Notes on Cell Division Cell cycle and its importance	
11/09/2023	Monday	2.40 to 3.30	Mitosis- Introduction Definition, Stages and significance	
12/09/2023	Tuesday			
18/09/2023	Monday	2.40 to 3.30	Notes given to students Mitosis- Introduction ,Definition, Stages and significance	
22/09/2023	Friday	1.00 to 1.50	Meiosis-Introduction, Definition	
25/09/2023	Monday	2.40 to 3.30	Meiosis-,Stages and significance	
26/09/2023	Tuesday	1.50 to 2.40	Notes given to students Meiosis- Introduction ,Definition ,Stages and significance	
29/09/2023	Friday	1.00 to 1.50	Question and answers session	


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Subject: Botany Dr. B.V.Jadhav
Paper No.: II (Theory) Cell Biology & Analytical Techniques

Class: B.Sc. I
Month: October

Date	Day	Time	Unit and Subunits	Teaching method and Aids
3/10/2023	Tuesday	1.50 to 2.40	Analytical Techniques	Lecture,
6/10/2023	Friday	1.00 to 1.50	Principles of Microscopy	Review lesson
9/10/2023	Monday	2.40 to 3.30	Light Microscopy	Teaching Aids
10/10/2023	Tuesday	1.50 to 2.40	Fluorescence microscopy	
13/10/2023	Friday	1.00 to 1.50	Electron microscopy	Computer
16/10/2023	Monday	2.40 to 3.30	Chromatography	LCD
17/10/2023	Tuesday	1.50 to 2.40	Principles of Chromatography	PPT
23/10/2023	Monday	2.40 to 3.30	Application of Chromatography	YouTube
27/10/2023	Friday	1.00 to 1.50	Paper chromatography-Ascending	
30/10/2023	Monday	2.40 to 3.30	Thin layer Chromatography (TLC)	
31/10/2023	Tuesday	1.50 to 2.40	Question and answers session	


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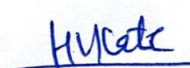
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Monthly Teaching Plan
Semester I

Subject: Botany Dr. B.V.Jadhav
Paper No.: I I (Theory) Cell Biology & Analytical Techniques

Class: B.Sc. I
Month: November

Date	Day	Time	Unit and Subunits	Teaching method and Aids
06/11/2023	Monday	2.40 to 3.30	M.C.Q. On Cell biology	Lecture, Review lesson Teaching Aids Computer LCD PPT YouTube
07/11/2023	Tuesday	1.50 to 2.40	Revision	
10/11/2023	Friday	2.40 to 3.30	Question and Answers session	
12 to 24		Dipawali vacation	-----	
28/11/2023	Tuesday	1.50 to 2.40	Question and Answers session	


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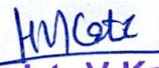
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SEMESTER TEACHING PLAN Academic Year 2023-2024 Semester II

Class: B.Sc. I Dr.B.V.Jadhav

Paper No.: IV (Theory)) Archegoniate (Bryophyta , Pteridophyta
Gymnosperm)

Month	No. of Teaching Days	Periods Allotted	Unit / Topic	Subunits Planned
December	23	10+2	Paper IV : 1.1	Bryophyta General characters, classification e.g. Anthoceros
January	25	11+4	1.2	Pteridophyta General characters, classification e.g. Selaginella
February	18	7+3	2.1	Gymnosperm General characters, Classification Economic importance of Gymnosperm e.g. Gnetum


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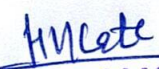
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Academic Year 2023-2024
Monthly Teaching Plan
Semester II

Subject: Botany Dr. B.V.Jadhav
Paper No.: IV (Theory) Archegoniate (Bryophyta , Pteridophyta Gymnosperm)

Class: B.Sc. I
Month: December 2023

Date	Day	Time	Unit and Subunits	Teaching method and Aids
1/12/2023	Friday	1.00 to 1.50	Bryophyta Introductuion	Lecture, Review lesson Teaching Aids Computer LCD PPT YouTube
4/12/2023	Monday	2.40 to 3.30	General characters of Bryophyta	
5/12/2023	Tuesday	1.50 to 2.40	Vegetative General characters of Bryophyta	
8/12/2023	Friday	1.00 to 1.50	Reproductive General characters of Bryophyta	
11/12/2023	Monday	2.40 to 3.30	Notes to students General characters of Bryophyta	
15/12/2023	Friday	1.00 to 1.50	Classification of Bryophyta	
18/12/2023	Monday	2.40 to 3.30	e.g. Anthoceros Introduction Occurance distribution	
19/12/23	Tuesday	1.50 to 2.40	Morhology, Anatomy	
22/12/2023	Friday	1.00 to 1.50	Reproduction Vegetative	
25/12/2023	Monday	2.40 to 3.30	Reproduction Sexual	
29/12/2023	Friday	1.00 to 1.50	Sporophyte & Life cycle	
December	25(total)	11(Available)		


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Semester II

Subject: Botany Dr. B.V.Jadhav
Paper No.: IV (Theory) Archegoniate (Bryophyta , Pteridophyta Gymnosperm)

Class: B.Sc. I
Month: January 2024

Date	Day	Time	Unit and Subunits	Teaching method and Aids
1/1/2024	Monday	2.40 to 3.30	Pteridophyta Introductuion	Lecture, Review lesson
			General characters of Pteridophyta	Teaching Aids Computer LCD PPT YouTube
5/1/2024	Friday	1.00 to 1.50	Vegetative General characters of Pteridophyta	
8/1/2024	Monday	2.40 to 3.30	Reproductive General characters of Pteridophyta	
9/1/2024	Tuesday	1.50 to 2.40	Notes to students General characters of Pteridophyta	
12/1/2024	Friday	1.00 to 1.50	Classification of Pteridophyta	
15/1/2024	Monday	2.40 to 3.30	e.g. Selaginella Introduction Occurance distribution	
19/1/2024	Friday	1.00 to 1.50	Morhology, Anatomy	
22/1/2024	Monday	2.40 to 3.30	Reproduction Vegetative & Sexual	
23/1/2024	Tuesday	1.50 to 2.40	Sporophyte & Life cycle	
26/1/2024	Friday	7.30	Independence Day	
29/1/2024	Monday	2.40 to 3.30	Notes to students Selaginella	
January	25(total)	12(Available)		

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Paper No.: IV (Theory) Archegoniate (Bryophyta , Pteridophyta Gymnosperm)

Class: B.Sc. I
Month: February 2024

Date	Day	Time	Unit and Subunits	Teaching method and Aids
2/2/2024	Friday	1.00 to 1.50	Gymnosperm Introductuion	Lecture, Review lesson
5/2/2024	Monday	2.40 to 3.30	General characters of Gymnosperm	Teaching Aids Computer LCD PPT YouTube
6/2/2024	Tuesday	1.50 to 2.40	Vegetative General characters of Gymnosperm	
9/2/2024	Friday	1.00 to 1.50	Reproductive General characters of Gymnosperm	
12/2/2024	Monday	2.40 to 3.30	Notes to students General characters of Pteridophyta	
16/2/2024	Friday	1.00 to 1:50	Classification of Gymnosperm	
19/2/2024	Monday	2.40 to 3.30	e.g. Gnetum Introduction Occurance distribution Morhology, Anatomy	
20/2/2024	Tuesday	1.50 to 2.40	Reproduction	
24/2/2024	Friday	1.00 to 1.50	Male and female inflorescence (Cone /Strobilus)	
26/2/2024	Monday	2.40 to 3.30	Life cycle	
			Notes to students Gnetum	
February	25(total)	10(Available)		

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