

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Dr. Nadia Chowhan

Class- B.Sc. II Medical and Biotechnology

Subject- Botany

Paper- I (Biology and Diversity of Seed Plants-I)

September, 2022 1 <sup>st</sup> Week 1 Sept-3 Sept	Introduction and general account of evolution of Plants General characteristics of Gymnosperms
4 Sept, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 8 Sept- 10 Sept	Important Gymnosperms in India Classification of Gymnosperms with special emphasis on Pilger and Melchior's system of Classification
11 Sept, 2022	<b>Sunday</b>
3 <sup>rd</sup> Week 15 Sept-17 Sept	General characters of different orders and their important members
18 Sept, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 22 Sept & 24 Sept	Morphology and anatomy of root, stem, rachis and leaf/leaflet of <i>Cycas</i>
23 Sept, 2022 25 Sept, 2022 26 Sept, 2022	<b>Shaheedi Divas/ Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Maharana Agrasen Jayanti</b>
5 <sup>th</sup> Week 29 Sept - 30 Sept	Morphology and anatomy of reproductive parts of <i>Cycas</i>
October, 2022 1 <sup>st</sup> Week 1 Oct, 2022	Morphology and anatomy of reproductive parts of <i>Cycas</i>
2 Oct, 2022	<b>Sunday</b>
1 <sup>st</sup> Week 6 Oct - 8 Oct	Morphology and anatomy of reproductive parts including mode of reproduction of <i>Cycas</i> Life-cycle and Economic Importance of <i>Cycas</i>
5 Oct, 2022 9 Oct, 2022	<b>Dussehra</b> <b>Sunday</b>

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Paper- I (Biology and Diversity of Seed Plants-I)

2 <sup>nd</sup> Week 14 Oct & 15 Oct	Morphology and anatomy of root, stem leaf/leaflet of <i>Pinus</i>
13 Oct, 2022 16 Oct, 2022	<b>Karwa Chauth Sunday</b>
3 <sup>rd</sup> Week 20 Oct & 21 Oct	Morphology and anatomy of reproductive parts including mode of reproduction of <i>Pinus</i>
22 Oct - 26 Oct	<b>Diwali Break</b>
4 <sup>th</sup> Week 27 Oct - 29 Oct	Revision of Morphology and anatomy of reproductive parts including mode of reproduction of <i>Pinus</i>  Life Cycle and Economic Importance of <i>Pinus</i>
30 Oct, 2022	<b>Sunday</b>
November, 2022 1 <sup>st</sup> Week 1 Nov, 2022	<b>Haryana Day</b>
1 <sup>st</sup> Week 3 Nov - 5 Nov	Morphology and anatomy of root, stem leaf/leaflet of <i>Ephedra</i>  <b>Class Tests</b>
6 Nov, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 10 Nov – 12 Nov	Morphology and anatomy of reproductive parts including mode of reproduction of <i>Ephedra</i>  Life Cycle and Economic Importance of <i>Ephedra</i>
8 Nov, 2022 13 Nov, 2022	<b>Sh. Guru Nanak Dev jayanti Sunday</b>
3 <sup>rd</sup> Week 17 Nov - 19 Nov	Palaeobotany- Fossils, Fossilization Process and Types of Fossils
20 Nov, 2022	<b>Sunday</b>

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<b>4<sup>th</sup> Week</b> <b>24 Nov - 26 Nov</b>	Geological Time Table  Reconstruction of the fossil Gymnosperms
<b>27 Nov, 2022</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>1 Dec – 3 Dec</b>	<b>Sessional Exams</b>
<b>4 Dec, 2022</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>8 Dec - 10 Dec</b>	Reconstruction of the fossil Gymnosperms  Evolution of Seed Habit  General characters of Angiosperms including primitive Angiosperms  <b>Revision</b>
<b>3<sup>rd</sup> Week</b> <b>15 Dec,2022</b> <b>Onwards</b>	<b>University Examinations</b>

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Name of the Teacher – Dr. Nadia Chowhan

Class- B.Sc. II Medical and Biotechnology

Subject- Botany

Paper- II (Plant Anatomy)

2 <sup>nd</sup> Week 5 Sept- 7 Sept	Diversity in Plant Forms : Annual , Biennials and Perennials
11 Sept, 2022	<b>Sunday</b>
3 <sup>rd</sup> Week 12 Sept-14 Sept	Meristematic Tissues
18 Sept, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 19 Sept-21 Sept	Permanent Tissues (Simple and Complex)
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	<b>Shaheedi Divas/ Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Maharana Agrasen Jayanti</b>
5 <sup>th</sup> Week 27 Sept & 28 Sept	Epidermis and epidermal appendages
October, 2022 1 <sup>st</sup> Week 1 Oct,2022	Root system: Primary and secondary functions of Roots
2 Oct, 2022	<b>Sunday</b>
1 <sup>st</sup> Week 3 Oct & 4 Oct	Root system, Histological organization of Monocot and Dicot Root
5 Oct,2022 9 Oct,2022	<b>Dussehra</b> <b>Sunday</b>
2 <sup>nd</sup> Week 10 Oct - 12 Oct	Secondary growth in Dicot Root Structural modification in roots : Storage and Respiratory
13 Oct, 2022 16 Oct,2022	<b>Karwa Chauth</b> <b>Sunday</b>
3 <sup>rd</sup> Week 17 Oct - 19 Oct	Structural modification in roots : Respiratory and Epiphytic root
22 Oct - 26 Oct	<b>Diwali Break</b>

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Class- B.Sc. II Medical and Biotechnology

Subject- Botany

Paper- II (Plant Anatomy)

4 <sup>th</sup> Week 31 Oct	The Shoot System: Shoot apical meristem and its histological organizations
30 Oct, 2022	<b>Sunday</b>
November, 2022 1 <sup>st</sup> Week 1 Nov, 2022	<b>Haryana Day</b>
1 <sup>st</sup> Week 2 Nov	Monocot and Dicot stem
6 Nov, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 7 Nov – 9 Nov	Cambium –Structure and Functions  Secondary growth in Dicot stem, Growth rings, Sap wood and Heart wood , Periderm
8 Nov,2022 13 Nov, 2022	<b>Sh. Guru Nanak Dev Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 14 Nov - 16 Nov	Anomalous secondary growth : Dracaena, Boerhaavia and Achyranthes
20 Nov, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 21 Nov - 23 Nov	Types of Leaves (Simple and Compound)  Phyllotaxy  Anatomy of Monocot and Dicot Leaves
27 Nov, 2022	<b>Sunday</b>
5 <sup>th</sup> Week 28 Nov – 3 Dec	<b>Sessional Exams</b>
4 Dec, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 5 Dec - 7 Dec	Cell inclusions in Leaves and Leaf abscission  Stomatal apparatus and their morphological types
3 <sup>rd</sup> Week 12 Dec-14 Dec	Comparative account of Monocots and Dicots  Practice of drawing Diagrams  Revision of Syllabus
15 Dec, 2022 Onwards	<b>University Examinations</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September, 2022-December, 2022)

Name of the Teacher- Dr. Seema Sharma

Subject-Botany

Paper- I (Diversity of Microbes)

Class- B.Sc. I (Medical and Biotech.)

<b>September 2022</b> 2 <sup>nd</sup> Week,5-7 Sept.	Introduction and General characters and Classification of Algae
<b>11 September</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 12-14 Sept.	Important features and life-history of Volvox and Important features and Reproduction of Oedogonium (Chlorophyceae)
<b>18 September</b>	<b>Sunday</b>
4 <sup>th</sup> Week 19-21 Sept.	Important features and life-history of Vaucheria (Xanthophyceae) and Important features and life-history of Ectocarpus (Phaeophyceae)
<b>23<sup>rd</sup> September</b>	<b>Shaheedi Divas</b>
<b>25 September</b>	<b>Sunday</b>
<b>26 September</b>	<b>Maharaja Agrasen Jayanti</b>
5 <sup>th</sup> Week 27-28 Sept.	Important features and life-history of Polysiphonia (Rhodophyceae) and Economic Importance of Algae and Class Test
<b>October 2022</b> 2 <sup>nd</sup> Oct.	<b>Gandhi Jayanti</b> <b>Sunday</b>
1 <sup>st</sup> Week 3-4 Oct.	General characters and Classification of Fungi
<b>5<sup>th</sup> October</b>	<b>Dussehra</b>
<b>9 October</b>	<b>Valmiki Jayanti</b> <b>Sunday</b>

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Name of the Teacher- Dr. Seema Sharma

Subject-Botany

Paper- I (Diversity of Microbes)

Class- B.Sc. I (Medical and Biotech.)

2 <sup>nd</sup> Week 10-12 Oct.	Important features and life-history of Phytophthora (Mastigomycotina) and Important features and life-history of Mucor(Zygomycotina)
<b>22 -26 October</b>	<b>Diwali Break</b>
<b>30 October</b>	<b>Sunday</b>
31 October	Important features and life-history of Penicillium(Ascomycotina)
<b>November 2022</b> 1 <sup>st</sup> Week , 1 <sup>st</sup> Nov.	<b>Haryana Day</b>
2 <sup>nd</sup> Nov	Important features of Puccinia (Basidiomycotina)
<b>6 November</b>	<b>Sunday</b>
2 <sup>nd</sup> week, 7 Nov.	Reproduction and life-history of Puccinia (Basidiomycotina)
<b>8 November</b>	<b>Guru Nanak Dev Jayanti</b>
9 Nov.	Important features and life-history of <i>Agaricus</i> (Basidiomycotina)
<b>13 November</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 14-16 Nov.	Important features and life-history of <i>Colletotrichum</i> (Deuteromycotina) and Economic Importance of Fungi
<b>20 November</b>	<b>Sunday</b>
4 <sup>th</sup> Week 21-23 Nov.	General account of Lichens ,Structure, Nutrition, Reproduction and Economic Importance of Bacteria
<b>27 November</b>	<b>Sunday</b>
<b>28 Nov.-3 Dec.</b>	<b>Sessional Exams</b>
<b>4 December 2022</b>	<b>Sunday</b>
2 <sup>nd</sup> Week 5-7 Dec.	General account of Cyanobacteria (with reference to <i>Nostoc</i> ), Viruses including structure of TMV and Bacteriophage
<b>11 December</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 12-14 Dec.	Revision of Syllabus and Class Tests
<b>15 Dec. Onwards</b>	<b>University Exams</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September, 2022-December, 2022)

Name of the Teacher-Dr. Seema Sharma

Subject-Botany

Paper-II(CellBiology)

Class- B.Sc.I (Medical and Biotech.)

<b>September 2022</b> 1 <sup>st</sup> Week, 1-3 Sept.	Introduction of cell biology  The Cell Envelopes: Structure and functions of Cell Wall
<b>4 September</b>	<b>Sunday</b>
2 <sup>nd</sup> Week 6 &8-10 Sept.	The Cell Envelopes: Structure and functions of Plasma Membrane
<b>11 September</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 13 & 15-17 Sept.	Ultrastructure and function of Mitochondria  Ultrastructure and function of Chloroplast
<b>18 September</b>	<b>Sunday</b>
4 <sup>th</sup> Week 20 & 22 Sept.	Ultrastructure and function of Endoplasmic Reticulum and Golgi Apparatus
<b>23<sup>rd</sup> September</b>	<b>Shaheedi Divas</b>
24 Sept.	Ultrastructure and function of Lysosomes and Peroxisomes
<b>25 September</b>	<b>Sunday</b>
<b>26 September</b>	<b>Maharaja Agrasen Jayanti</b>
5 <sup>th</sup> Week 27 & 29-30 Sept.	Ultrastructure and function of Vacuoles  Ultrastructure and function of Nucleus
<b>October 2022</b> 1 <sup>st</sup> Oct.	<b>Class Test</b>
<b>2<sup>nd</sup> October</b>	<b>Gandhi Jayanti</b>  <b>Sunday</b>
<b>5<sup>th</sup> October</b>	<b>Dussehra</b>



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Class- B.Sc.I (Medical and Biotech.)

1 <sup>st</sup> Week 4 & 6-8 Oct.	Chromosome: Morphology, organization, ultrastructure of Centromere and Telomere
<b>9 October</b>	<b>Valmiki Jayanti</b> <b>Sunday</b>
2 <sup>nd</sup> Week 11 Oct.	Cell Cycle
<b>13 October</b>	<b>KarwaChauth</b>
14-15 Oct	Cell Division: Mitosis
<b>16 October</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 18 & 20-21 Oct.	Cell Division: Meiosis
<b>22 -26 October</b>	<b>Diwali Break</b>
4 <sup>th</sup> Week 27-29 Oct.	<b>Revision and Class Test</b>
<b>30 October</b>	<b>Sunday</b>
<b>November2022</b> 1 <sup>st</sup> Nov.	<b>Haryana Day</b>
1 <sup>st</sup> Week 1 & 3-5 Nov.	Sex chromosomes and sex determination Chromosomal Alterations (deletions and duplications)
<b>6 November</b>	<b>Sunday</b>
<b>8 November</b>	<b>Guru Nanak Dev Jayanti</b>
2 <sup>nd</sup> week, 8 & 10-12 Nov.	Chromosomal Alterations (translocations and inversions)
<b>13 November</b>	<b>Sunday</b>

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Paper-II(CellBiology)

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3 <sup>rd</sup> Week 15 & 17-19 Nov.	Variations in Chromosome Number (Aneuploidy)
<b>20 November</b>	<b>Sunday</b>
4 <sup>th</sup> Week 22 & 24-26 Nov.	Variations in Chromosome Number (Polyploidy)
<b>27 November</b>	<b>Sunday</b>
<b>December 2022</b> 28 Nov-3 Dec.	<b>Sessional Exams</b>
<b>4 December 2022</b>	<b>Sunday</b>
2 <sup>nd</sup> Week 6 & 8-10 Dec.	Revision of Syllabus and Class Tests
<b>11 December</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 15 Dec. Onwards	<b>University Exams</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September, 2022-December, 2022)

Name of the Teacher-Ms. Sushmita Kamboj

Subject-Botany

Paper- I (Plant Physiology)

Class- B.Sc.III<sup>rd</sup>(Medical and Biotech.)

<b>September 2022</b> 2 <sup>nd</sup> Week,5-7 Sept.	Introduction to syllabus and Scheme of Examination Importance of water and property of water
<b>11 September</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 12-14 Sept.	Imbibition ,Diffusion Osmosis Plasmolysis
<b>18 September</b>	<b>Sunday</b>
4 <sup>th</sup> Week 19-21 Sept.	Absorption and transport of water Transpiration and its types Physiology of stomata
<b>23<sup>rd</sup> September</b>	<b>Shaheedi Divas</b>
<b>25 September</b>	<b>Sunday</b>
<b>26 September</b>	<b>Maharaja Agrasen Jayanti</b>
5 <sup>th</sup> Week 27-28 Sept.	Ascent of Sap Essential of Macro and Micro elements
<b>October 2022</b> 2 <sup>nd</sup> Oct.	<b>Gandhi Jayanti</b> <b>Sunday</b>
1 <sup>st</sup> Week 3-4 Oct.	Test Mineral uptake and deficiency symptoms
<b>5<sup>th</sup> October</b>	<b>Dussehra</b>
<b>9 October</b>	<b>Valmiki Jayanti</b> <b>Sunday</b>

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Name of the Teacher-Ms. Sushmita Kamboj

Subject-Botany

Paper- I (Plant Physiology)

Class- B.Sc.III<sup>rd</sup>(Medical and Biotech.)

2 <sup>nd</sup> Week 10-12 Oct.	Mechanism of phloem transport Source-sink relationship
<b>22 -26 October</b>	<b>Diwali Break</b>
<b>30 October</b>	<b>Sunday</b>
31 October	Introduction of photosynthesis Photosynthetic pigments
<b>November 2022</b> 1 <sup>st</sup> Week , 1 <sup>st</sup> Nov.	<b>Haryana Day</b>
2 <sup>nd</sup> Nov	Concept of two photosystems Z-scheme
<b>6 November</b>	<b>Sunday</b>
2 <sup>nd</sup> week, 7 Nov.	Photo-phosphorylation Calvin cycle
<b>8 November</b>	<b>Guru Nanak Dev Jayanti</b>
9 Nov.	C4 cycle and CAM plant
<b>13 November</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 14-16 Nov.	Photorespiration Aerobic and Anaerobic respiration Kreb cycle

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Paper- I (Plant Physiology)

Class- B.Sc.III<sup>rd</sup>(Medical and Biotech.)

20 November	<b>Sunday</b>
4 <sup>th</sup> Week 21-23 Nov.	Electron transport mechanism Oxidative phosphorylation Pentose phosphate pathway
27 November	<b>Sunday</b>
5 <sup>th</sup> Week 28 Nov.- 3 Dec.	<b>Sessional Exams</b>
4 December 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 5-7 Dec.	Seed dormancy Photoperiodism and flowering Plant movement
11 December	<b>Sunday</b>
3 <sup>rd</sup> Week 12-14 Dec.	Fruit ripening Revision of Syllabus and Class Tests
15 December Onwards	<b>University Examination</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September, 2022-December, 2022)

Name of the Teacher--Ms. Sushmita Kamboj

Subject-Botany

Paper-II( Ecology)

Class- B.Sc. IIIrd (Medical and Biotech.)

<b>September 2022</b>	Introduction to syllabus and Scheme of Examination
1 <sup>st</sup> Week, 1-3 Sept.	Introduction to Ecology- definition, scope and importance
<b>4 September</b>	<b>Sunday</b>
2 <sup>nd</sup> Week 8-10 Sept.	Levels of Organisation Environmental Factors- Climate(Water, Humidity) Light , Temperature
<b>11 September</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 15-17 Sept.	Edaphic Factors- Soil Profile, Physio-chemical properties Topographic factors
<b>18 September</b>	<b>Sunday</b>
4 <sup>th</sup> Week,22 Sept.	Biotic Factors (species interaction)
<b>23<sup>rd</sup> September</b>	<b>Shaheedi Divas</b>
24 Sept.	Adaptations to Water stress & Salinity in Xerophytes
<b>25 September</b>	<b>Sunday</b>
<b>26 September</b>	<b>Maharaja Agrasen Jayanti</b>
5 <sup>th</sup> Week 29Sept.	Adaptations to Water Stress & Salinity in Hydrophytes & Halophytes
<b>30 Sept.</b>	<b>Talent show</b>
<b>October 2022</b> 1 <sup>st</sup> Oct.	<b>Talent showHoliday</b>
<b>2<sup>nd</sup> October</b>	<b>Gandhi Jayanti</b> <b>Sunday</b>

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Paper-II( Ecology)

Class- B.Sc. IIIrd (Medical and Biotech.)

<b>5<sup>th</sup> October</b>	<b>Dussehra</b>
1 <sup>st</sup> Week 6-8 Oct.	Population Ecology- Concept, Characteristics Biotic Potential, Growth curves, Ecotypes and Ecads
<b>9 October</b>	<b>Valmiki Jayanti</b> <b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>13 Oct.</b>	<b>KarwaChauth</b>
2 <sup>nd</sup> Week 14-15 Oct.	Community Ecology- Concepts, Characteristics Methods of Analysis Ecological succession
<b>16 October</b>	<b>Sunday</b>
20-21 Oct.	Ecosystem: Structure and Functions( trophic level, food chain )
<b>22 -26 October</b>	<b>Diwali Break</b>
27-29 Oct.	Ecosystem:Functions(Food web, Energy flow, Ecological pyramids)
<b>30 October</b>	<b>Sunday</b>
<b>November 2022</b> 1 <sup>st</sup> Nov.	<b>Haryana Day</b>
1 <sup>st</sup> Week 3-5 nov.	Biogeochemical Cycle: Carbon Cycle Nitrogen Cycle & Water Cycle
<b>6 November</b>	<b>Sunday</b>
<b>8 November</b>	<b>Guru Nanak Dev Jayanti</b>
2 <sup>nd</sup> week, 10-12 Nov.	Phyto-geography regions of India Test
<b>13 November</b>	<b>Sunday</b>

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Class- B.Sc. IIIrd (Medical and Biotech.)

3 <sup>rd</sup> Week 17-19 Nov.	Vegetation types of India (Forests) Environmental Pollution-Air Sources, types and control
<b>20 November</b>	<b>Sunday</b>
4 <sup>th</sup> Week 24-26 Nov.	Water Pollution Global Change- Greenhouse Effect
<b>27 November</b>	<b>Sunday</b>
<b>28 Nov. -3 Dec.</b>	<b>Sessional Exams</b>
<b>4 December 2022</b>	<b>Sunday</b>
2 <sup>nd</sup> Week 8-10 Dec.	Carbon trading Revision of Syllabus and Class Tests
<b>11 December</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>15 Dec. Onwards</b>	<b>University Examination</b>