

KVA DAV COLLEGE FOR WOMEN, KARNAL

(SESSION 2021-2022)

Teaching Term: (06-10-2021 to 15-02-2022)

(Odd semester)

Weekly Lesson Plan UG (5th semester)

Name of Paper: Plant Physiology

Class: B.Sc. 3rd year

Name of the Teachers: Dr. Ashima Gakhar & Ms. Sakshi Saini

WEEK	DATE	TOPICS
1	October (6,8)	HOLIDAY . 07.10.2021- Maharaja Agrasain Jayanti
		Introduction to syllabus and Scheme of Examination
SUNDAY – 10.10.2021		
2	October (11-13,15)	Importance of water and property of water
		Imbibition
		Diffusion
		HOLIDAY -15.10.2021 (DUSSEHRA)
SUNDAY – 17.10.2021		
3	October (18-20,22)	Osmosis
		Plasmolysis
		HOLIDAY- 20.10.2021 –Maharishi Valmiki Jayanti
SUNDAY- 24.10.2021		
4	October (25-27,29)	Absorption and transport of water
		Transpiration
DIWALI BREAK – 31.10.2021 to 07.11.2021		
5	November (8-10,12)	Transpiration and its types
SUNDAY- 14.11.2021		
6	November (15-17,19)	Ascent of Sap
		Ascent of Sap
		Holiday 19.11.2021 Gurunanak Dev Jayanti

SUNDAY -21-11-2021		
7	November (22-24,26)	Physiology of Stomata
		Test
SUNDAY- 28.11.2021		
8	November (29-30) December (1,3)	Mineral Nutrition
		Mineral Nutrition
		Test
SUNDAY- 05.12.2021		
9	December (6-8,10)	Transport of Organic Substances
		Assignment
		Photosynthesis
SUNDAY-12.12.2021		
10	December (13-15,17)	Photosynthesis
		Photosynthesis
		Photosynthesis
SUNDAY-19.12.2021		
11	December (20-22,24)	Assignment
		Photosynthesis
		HOLIDAY- 25.12.2021 Christmas
SUNDAY-26.12.2021		
12	December (27-29,31) January (1)	Photosynthesis
		Respiration
SUNDAY -02.01.2022		
13	January (3-5,7)	Respiration
		Test
		Respiration
SUNDAY-09.01.2022		
14	January (10-12,14)	Respiration
		Respiration

		Respiration
SUNDAY-16.01.2022		
15	January (17-19,21)	Sessional
		Plant movement
		Seed dormancy
SUNDAY- 23.01.2022		
16	January (24-26,28)	Senescence
		Photoperiodism
		Holiday -26.01.2022 Republic day
Sunday -30.01.2022		
17	Jan (31) February (1-2,4)	Photoperiodism
		Vernalization
		Fruit ripening
		Holiday -05.02.2022- Vasant Panchmi
SUNDAY-06.02.2022		
18	February (07-09,11)	Revision
		Revision
SUNDAY- 13.02.2022		
19	February (14)	Revision
SEMESTER EXAM		

KVA DAV COLLEGE FOR WOMEN, KARNAL**(SESSION 2021-2022)****Teaching Term: (06-10-2021 to 15-02-2022)****(Odd semester)****Weekly Lesson Plan UG (5th semester)****Name of Paper: Ecology****Class: B.Sc. 3rd year****Name of the Teachers: Dr. Ashima Gakhar & Ms. Sakshi Saini**

WEEK	DATE	TOPICS
1	October (7-9)	HOLIDAY . 07.10.2021- Maharaja Agrasen Jayanti
		Introduction to syllabus and Scheme of Examination
SUNDAY – 10.10.2021		
2	October (14-16)	Introduction to Ecology- definition, scope and importance
		Levels of Organization
		HOLIDAY -15.10.2021 (DUSSEHRA)
SUNDAY – 17.10.2021		
3	October (21-23)	Environmental Factors- Climate(Water, Humidity)
		Light , Temperature
		HOLIDAY- 20.10.2021 –Maharishi Valmiki Jayanti
SUNDAY- 24.10.2021		
4	October (28-30)	Edaphic Factors- Soil Profile, Physio-chemical properties
		Topographic factors
DIWALI BREAK – 31.10.2021 to 07.11.2021		
5	November (11-13)	Biotic Factors (Species interaction)
SUNDAY- 14.11.2021		
6	November (17-20)	Adaptations to Water Stress & Salinity in Xerophytes

		Holiday 19.11.2021 Gurunanak Dev Jayanti
SUNDAY -21-11-2021		
7	November (25-27)	Adaptations to Water Stress & Salinity in Hydrophytes & Halophytes
SUNDAY- 28.11.2021		
8	December (2-4)	Population Ecology- Concept, Characteristics
		Biotic Potential, Growth curves, Ecotypes and Ecads
SUNDAY- 05.12.2021		
9	December (9-11)	Community Ecology- Concepts, Characteristics
		Assignment
		Methods of Analysis
SUNDAY-12.12.2021		
10	December (16-18)	Ecological Succession
SUNDAY-19.12.2021		
11	December (23-25)	Assignment
		Ecosystem: Structure and Functions
		HOLIDAY- 25.12.2021 Christmas
SUNDAY-26.12.2021		
12	December (30-31) January (1)	Biogeochemical Cycle: Carbon Cycle
		Nitrogen Cycle & Water Cycle
SUNDAY -02.01.2022		
13	January (6-8)	Phyto-Geography regions of India
		Test
SUNDAY-09.01.2022		
14	January (13-15)	Vegetation types of India (Forests)

SUNDAY-16.01.2022		
15	January (20-22)	Sessional
		Environmental Pollution-Air
		Sources, types and control
SUNDAY- 23.01.2022		
16	January (27-29)	Water Pollution
		Holiday -26.01.2022 Republic day
Sunday -30.01.2022		
17	February (2-4)	Global Change- Green house Effect
		Holiday -05.02.2022- Vasant panchmi
SUNDAY-06.02.2022		
18	February (10-12)	Impacts of Global Warming
		Revision
SUNDAY- 13.02.2022		
SEMESTER EXAM		

KVA DAV COLLEGE FOR WOMEN, KARNAL

(SESSION 2021-2022)

Teaching Term: (06-10-2021 to 15-02-2022)

(Odd semester)

Weekly Lesson Plan UG (3rd Semester)

Class: B.Sc. 2nd year

Name of Paper: Bot-I Biology and Diversity of Seed Plants-I

Name of the Teacher: Dr. Nadia Chowhan

WEEK	DATE	TOPICS
1	October, 2021 Oct 6, 2021	Introduction and general account of evolution of Plants
		HOLIDAY 07.10.2021- Maharaja Agrasen Jayanti
SUNDAY – 10.10.2021		
2	Oct 11-13, 2021	General characteristics of Gymnosperms Important Gymnosperms in India
		HOLIDAY -15.10.2021 Dussehra
SUNDAY – 17.10.2021		
3	Oct 18-20, 2021	Classification of Gymnosperms with special emphasis on Pilger and Melchior's system of Classification
		HOLIDAY- 20.10.2021 –Maharishi Valmiki Jayanti
SUNDAY- 24.10.2021		
4	Oct 25-27, 2021	General characters of different orders and their important members
		DIWALI BREAK – 31.10.2021 to 07.11.2021
5	November, 2021 Nov 8-10, 2021	Morphology and anatomy of root, stem, rachis and leaf/leaflet of <i>Cycas</i>
		SUNDAY- 14.11.2021

6	Nov 15-17, 2021	Morphology and anatomy of reproductive parts of <i>Cycas</i>
		Holiday 19.11.2021 Gurunanak Dev Jayanti
SUNDAY -21-11-2021		
7	Nov 22-24, 2021	Morphology and anatomy of reproductive parts including mode of reproduction of <i>Cycas</i> Life-cycle and Economic Importance of <i>Cycas</i>
SUNDAY- 28.11.2021		
8	Nov 29-30, 2021 Dec 01, 2021	Morphology and anatomy of root, stem leaf/leaflet of <i>Pinus</i>
		Test
SUNDAY- 05.12.2021		
9	December, 2021 Dec 6-8, 2021	Assignment Morphology and anatomy of reproductive parts including mode of reproduction of <i>Pinus</i>
SUNDAY-12.12.2021		
10	Dec 13-15, 2021	Morphology and anatomy of reproductive parts including mode of reproduction of <i>Pinus</i> Life Cycle and Economic Importance of <i>Pinus</i>
SUNDAY-19.12.2021		
11	Dec 20-22, 2021	Assignment Morphology and anatomy of root, stem leaf/leaflet of <i>Ephedra</i> Morphology and anatomy of reproductive parts including mode of reproduction of <i>Ephedra</i>
		HOLIDAY- 25.12.2021 Christmas
SUNDAY-26.12.2021		
12	Dec 27-29, 2021	Morphology and anatomy of reproductive parts including mode of reproduction of <i>Ephedra</i> Life Cycle and Economic Importance of <i>Ephedra</i>
SUNDAY -02.01.2022		

13	January, 2022 Jan 3-5, 2022	Palaeobotany-Fossils, fossilization process and Types of Fossils
SUNDAY-09.01.2022		
14	Jan 10-12, 2022	Geological Time Table Reconstruction of the fossil Gymnosperms
SUNDAY-16.01.2022		
15	Jan 17-19, 2022	Sessional Exams
SUNDAY- 23.01.2022		
16	Jan 24-26, 2022	Reconstruction of the fossil Gymnosperms Evolution of Seed Habit
		Holiday -26.01.2022 Republic day
Sunday -30.01.2022		
17	February, 2022 Jan 31, 2022 Feb 1-2, 2022	General characters of Angiosperms including primitive Angiosperms Comparative account of Gymnosperms and Angiosperms
		Holiday -05.02.2022- Vasant Panchmi
SUNDAY-06.02.2022		
18	Feb 07-09, 2022	Revision of Syllabus and Class Tests
SUNDAY- 13.02.2022		
19	Feb 14-16, 2022	Revision of Syllabus and Class Tests
SEMESTER EXAM		

KVA DAV COLLEGE FOR WOMEN, KARNAL

(SESSION 2021-2022)

Teaching Term: (06-10-2021 to 15-02-2022)

(Odd semester)

Weekly Lesson Plan UG (3rd Semester)

Class: B.Sc. 2nd year

Name of Paper: Plant Anatomy

Name of the Teacher: Dr. Nadia Chowhan

WEEK	DATE	TOPICS
1	October, 2021 Oct 7-9, 2021	Diversity in Plant Forms : Annual , Biennials and Perennials
		HOLIDAY 07.10.2021- Maharaja Agrasenjayanti
SUNDAY – 10.10.2021		
2	Oct 11, 14 & 16, 2021	Meristematic Tissues
		HOLIDAY -15.10.2021 (DUSSEHRA)
SUNDAY – 17.10.2021		
3	Oct 18, 21-23, 2021	Permanent Tissues (Simple and Complex)
		HOLIDAY- 20.10.2021 –Maharishi Valmiki jayanti
SUNDAY- 24.10.2021		
4	Oct 25, 28-30, 2021	Epidermis and epidermal appendages
DIWALI BREAK – 31.10.2021 to 07.11.2021		
5	November, 2021 Nov 8, 11-13, 2021	The Shoot System: Shoot apical meristem and its histological organizations Monocot stem
SUNDAY- 14.11.2021		

6	Nov 15, 18 & 20, 2021	Dicot stem Cambium –structure and functions
		Holiday 19.11.2021 Gurunanak dev jayanti
SUNDAY -21-11-2021		
7	Nov 22, 25-27, 2021	Secondary growth in Dicot stem ,Growth rings , Sap wood and Heart wood , Periderm
SUNDAY- 28.11.2021		
8	Nov 29, 2021 Dec 02-04, 2021	Anomalous secondary growth : Dracaena and Boerhaavia
		Test
SUNDAY- 05.12.2021		
9	December, 2021 Dec 6, 09-11, 2021	Assignment Anomalous secondary growth : Boerhaavia and Achyranthes
SUNDAY-12.12.2021		
10	Dec 13, 16-18, 2021	Types of Leaves (Simple and Compound) Phyllotaxy
SUNDAY-19.12.2021		
11	Dec 20, 23 & 24, 2021	Assignment Anatomy of Monocot and Dicot Leaves Cell inclusions in Leaves and Leaf abscission
		HOLIDAY- 25.12.2021 Christmas
SUNDAY-26.12.2021		
12	Dec 27, 30 & 31, 2021 Jan 01, 2022	Stomatal apparatus and their morphological types
SUNDAY -02.01.2022		

13	January, 2022 Jan 3, 06-08, 2022	Root system, Histological organization of Monocot and Dicot Root
SUNDAY-09.01.2022		
14	Jan 10, 13-15, 2022	Secondary growth in Dicot Root
SUNDAY-16.01.2022		
15	Jan 17, 20-22, 2022	Structural modification in roots : Storage and Respiratory
SUNDAY- 23.01.2022		
16	Jan 24, 27-29, 2022	Structural modification in roots : Respiratory and Epiphytic root
		Holiday -26.01.2022 Republic day
Sunday -30.01.2022		
17	Jan 31, 2022 Feb 03 & 04, 2022	Comparative account of Monocots and Dicots Practice of drawing Diagrams
		Holiday -05.02.2022- Vasant panchmi
SUNDAY-06.02.2022		
18	Feb 07, 10-12, 2022	Revision of Syllabus and Class Tests
SUNDAY- 13.02.2022		
19	Feb 14, 17-19, 2022	Revision of Syllabus and Class Tests
SEMESTER EXAM		

KVA DAV COLLEGE FOR WOMEN, KARNAL

(SESSION 2021-2022)

Teaching term: (06-10-2021 to 15-02-2022)

(Odd semester)

Weekly Lesson Plan UG

Name of Paper: Bot-I Diversity of Microbes Class: B.sc .1st year

Name of the Teacher: Dr. Seema Sharma

WEEK	DATE	TOPICS
1	October (6)	Introduction of Syllabus
		HOLIDAY - 07.10.2021- Maharaja Agrasain jayanti
SUNDAY – 10.10.2021		
2	October (11-13)	General characters of Algae
		Classification of Algae
		Important features of Volvox (Chlorophyceae)
		HOLIDAY -15.10.2021 (DUSSEHRA)
SUNDAY – 17.10.2021		
3	October (18-20)	Reproduction and life-history of Volvox
		Important features of Oedogonium (Chlorophyceae)
		HOLIDAY- 20.10.2021 –Maharishi Valmiki jayanti
SUNDAY- 24.10.2021		
4	October (25-27)	Reproduction of Oedogonium
		Life cycle of Oedogonium
		Important features and life-history of Vaucheria (Xanthophyceae)
DIWALI BREAK – 31.10.2021 to 07.11.2021		
5	November (8-10)	Important features of Ectocarpus (Phaeophyceae)
		life-history of Ectocarpus
		Important features of Polysiphonia (Rhodophyceae)
SUNDAY- 14.11.2021		
6	November (15-17)	life-history of Polysiphonia
		Economic Importance of Algae
		Class Test
		Holiday 19.11.2021 Gurunanak dev jayanti

SUNDAY -21-11-2021		
7	November (22-24)	General characters of Fungi
		Classification of Fungi
		Important features and life-history of <i>Phytophthora</i> (Mastigomycotina)
SUNDAY- 28.11.2021		
8	November (29-30) December (1)	Important features of <i>Mucor</i> (Zygomycotina)
		Life-history of <i>Mucor</i>
		Test
SUNDAY- 05.12.2021		
9	December (6-8)	Important features of <i>Penicillium</i> (Ascomycotina)
		Assignment
		Life-history of <i>Penicillium</i>
SUNDAY-12.12.2021		
10	December (13-15)	Important features of <i>Puccinia</i> (Basidiomycotina)
		Stages on Wheat and Barberry
		Life-cycle of <i>Puccinia</i>
SUNDAY-19.12.2021		
11	December (20-22)	Assignment
		Important features of <i>Agaricus</i> (Basidiomycotina)
		life-history of <i>Agaricus</i>
		HOLIDAY- 25.12.2021 Christmas
SUNDAY-26.12.2021		
12	December (27-29)	
		Important features and life-history of <i>Colletotrichum</i> (Deuteromycotina)
		Economic Importance of Fungi
		Test
SUNDAY -02.01.2022		
13	January (3-5)	
		General account of Lichens
		Structure of Lichens and Economic Importance of Lichens
		Test
SUNDAY-09.01.2022		

14	January (10-12)	Structure and Nutrition of Bacteria
		Reproduction of Bacteria
		Economic Importance of Bacteria
SUNDAY-16.01.2022		
15	January (17-19)	Sessional
		General account of Cyanobacteria
SUNDAY- 23.01.2022		
16	January (24-26)	Important Features and Life history of Nostoc
		Revision
		Holiday -26.01.2022 Republic day
Sunday -30.01.2022		
17	Jan (31) February (1-2)	General Characters of Viruses
		Structure of TMV
		Structure of Bacteriophage
		Holiday -05.02.2022- Vasant Panchami
SUNDAY-06.02.2022		
18	February (07-09)	Revision
		Class Test
		Revision
SUNDAY- 13.02.2022		
19	February (14)	
		Revision
SEMESTER EXAM		

KVA DAV COLLEGE FOR WOMEN, KARNAL**(SESSION 2021-2022)**

Teaching term: (06-10-2021 to 15-02-2022)

(Odd semester)

Weekly Lesson Plan UG

Name of Paper: Bot-II Cell Biology

Class: B.sc 1st year

Name of the Teachers: Dr. Seema Sharma

WEEK	DATE	TOPICS
1	October (5,7-9)	Introduction
		HOLIDAY - 07.10.2021- Maharaja Agrasain jayanti
		The Cell Envelopes: Structure and functions of Cell Wall
SUNDAY – 10.10.2021		
2	October (12,14-16)	The Cell Envelopes: Structure of Plasma Membrane
		Functions of Plasma Membrane
		Modification of Plasma Membrane
		HOLIDAY -15.10.2021 (DUSSEHRA)
SUNDAY – 17.10.2021		
3	October (19,21-23)	Ultrastructure of Mitochondria
		Function of Mitochondria
		HOLIDAY- 20.10.2021 –Maharishi Valmiki jayanti
SUNDAY- 24.10.2021		
4	October (26,28-30)	Ultrastructure of Chloroplast
		Function of Chloroplast
		Ultrastructure and function of Endoplasmic Reticulum
		Ultrastructure and function of Golgi Apparatus
DIWALI BREAK – 31.10.2021 to 07.11.2021		
5	November (9,11-13)	Ultrastructure and function of Lysosomes
		Ultrastructure and function of Peroxisomes and Vacuoles
		Ultrastructure of Nucleus
SUNDAY- 14.11.2021		
6	November (16,17-20)	Ultrastructure of Nucleolus
		Function of Nucleus
		Chromosome: Morphology
		Holiday 19.11.2021 Gurunanak dev jayanti

SUNDAY -21-11-2021		
7	November (23,25-27)	Chromosome: Organization, ultrastructure of Centromere
		Telomere
		Special type of chromosome
SUNDAY- 28.11.2021		
8	November (30) December (2-4)	Cell cycle
		Cell Division: Mitosis
		Significance of Mitosis
		Cell Division: Meiosis I
SUNDAY- 05.12.2021		
9	December (7,9-11)	Cell Division: Meiosis II
		Assignment
		Difference between Mitosis and Meiosis
		Significance of Meiosis
SUNDAY-12.12.2021		
10	December (14,16-18)	Introduction of Chromosome Alterations
		Chromosomal Alterations (Deletions)
		Class Test
SUNDAY-19.12.2021		
11	December (21,23-25)	Assignment
		Chromosomal Alterations (Duplications)
		Chromosomal Alterations (Translocation)
		HOLIDAY- 25.12.2021 Christmas
SUNDAY-26.12.2021		
12	December (28,30-31) January (1)	
		Chromosomal Alterations (Paracentric inversion)
		Paracentric inversion
		Class Test
SUNDAY -02.01.2022		
13	January (4,6-8)	Variations in Chromosome Number (Aneuploidy: Hypoploidy)
		Aneuploidy: Hyperploidy
		Test
SUNDAY-09.01.2022		
	January	

14	(11,13-15)	Variations in Chromosome Number (Euploidy: Haploidy
		Euploidy: Polyploidy
		Types of Polyploidy
SUNDAY-16.01.2022		
15	January (18,20-22)	Sessional
		Role of Polyploidy in Plant Breeding
		Origin of Bread Wheat
SUNDAY- 23.01.2022		
16	January (25,27-29)	Introduction of sex determination
		Sex chromosomes
		Holiday -26.01.2022 Republic day
Sunday -30.01.2022		
17	February (1,2-4)	Chromosomal theory of Sex determination
		Sex determination in Plants
		Class Test
		Holiday -05.02.2022- Vasant Panchami
SUNDAY-06.02.2022		
18	February (8,10-12)	
		Revision
SUNDAY- 13.02.2022		
SEMESTER EXAM		