

**MCM DAV College for Women, Sector – 36A, Chandigarh**  
**Monthly Teaching Plans (Odd Semester)**  
**Session–(2021-22)**

**Name of the Teacher/s:** Dr. Gunjan Sud and Dr. Jasleen Kaur

**Department:** Botany

**Class:** B.Sc. (Med.) 2nd year

**Subject:** Paper A (DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS- I)

**Sections:** A and B

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
August	17.8.2021	31.8.2021	General characteristics and economic importance of gymnosperms; differences between gymnosperms and angiosperms; differences between manoxylic and pycnoxylic wood.	Online Lecture Method
<b>Departmental Meeting 20 August 2021, to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
September	01.09.2021	30.09.2021	Fossil gymnosperms : Brief account of fossils , their formation and types (excluding details). Lyginopteris: Introduction, external structure of stem; internal structure of primary stem, root and leaf; reproduction. Williamsonia: Introduction, external morphology; internal structure; reproductive organs, male and female flowers.	Online Lecture Method
<b>Departmental Meeting 17 September 2021, to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
October	01.10.2021	31.10.2021	Structure, reproduction (male and female strobilus; structure of ovule; development of male and female gametophytes; pollination, fertilization,	Online Lecture Method

			development of embryo and structure of seed) and life cycle of Cycas.	
<b>Departmental Meeting 23 October 2021, to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
November	01.11.2021	30.11.2021	Structure, reproduction (male and female strobilus; structure of ovule; development of male and female gametophytes; pollination, fertilization, development of embryo and structure of seed) and life cycle of: Pinus	Online Lecture Method
	17.11.2021	25.11.2021	Mid Semester Examination	
<b>Departmental Meeting 27 November 2021, to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
December	1.12.2021	22.12.2021	Structure, reproduction (male and female strobilus; structure of ovule; development of male and female gametophytes; pollination, fertilization, development of embryo and structure of seed) and life cycle of: Ephedra	Online Lecture Method
<b>Departmental Meeting 10 December 2021, to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
December-January	24.12.2021	27.01.2022	P.U. Semester Examination	
<b>Departmental Meeting to Coordinate and to plan regarding next semester.</b>				

\*Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.  
Other Methods adopted by the teacher – Please write the specific teaching method

**MCM DAV College for Women, Sector – 36A, Chandigarh**  
**Monthly Teaching Plans (Even Semester)**  
**Session–(2021-22)**

**Name of the Teacher/s:** Dr. Gunjan Sud and Dr. Jasleen Kaur

**Department:** Botany

**Class:** B.Sc. (Med.) 2nd year

**Subject:** Paper A (DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS-II)

**Sections:** A and B

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
February	3.2.2022	28.2.2022	General characters of Angiosperms. Plant nomenclature and International Code of Botanical Nomenclature : Common names and scientific names, principles and rules; taxonomic ranks; type concept (Holotype, Isotype, Syntype, Paratype, Lectotype, Neotype and Topotype); principle of priority, aims and objectives of plant taxonomy. A brief account of Bentham and Hooker's System of classification, its merits and demerits.	Lecture Method
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
March	01.03.2022	31.03.2022	Terminology pertaining to floral description. General account and diagnostic features of the following families (excluding economic importance) : Liliaceae : Asphodelus/Asparagus Gramineae (Poaceae) : Triticum	Lecture Method

			Ranunculaceae : Ranunculus and Delphinium Brassicaceae : Brassica	
	17.03.2022	25.03.2022	<b>Mid semester Examination</b>	
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
April	01.04.2022	30.04.2022	General account and diagnostic features of the following families (excluding economic importance): Rutaceae : Citrus and Murraya, Compositae (Asteraceae) : Helianthus/Ageratum Asclepiadaceae : Calotropis Solanaceae : Solanum and Petunia Labiatae (Lamiaceae) : Ocimum Chenopodiaceae : Chenopodium	Lecture Method
May	01.05.2022	24.05.2022	General account and diagnostic features of the following families (excluding economic importance): Malvaceae : Hibiscus Fabaceae : Lathyrus, Cassia and Acacia Umbelliferae (Apiaceae) : Coriandrum General account and diagnostic features of the following families (excluding economic importance)	Lecture Method
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
May, June & July	26.05.2022	05.7.2022	P.U. Practical/ Theory Examination	
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				

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**MCM DAV College for Women, Sector – 36A, Chandigarh**  
**Monthly Teaching Plans (Odd Semester)**  
**Session–(2021-22)**

**Name of the Teacher/s:** Dr. Jasleen Kaur and Ms. Jyoti Shekhawat

**Department:** Botany

**Class:** B.Sc. (Med.) 2nd year

**Subject:** Paper B (STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS-I)

**Sections:** A and B

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
August	17.08.2021	31.08.2021	The basic body plan of a flowering plant. Diversity in plant form in annuals, biennials and perennials, Root system: Tap root and adventitious root system and their various types; structural and anatomical Modifications for storage, respiration and reproduction..	Lecture Method
<b>Departmental Meeting on 20.8.2021 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
September	01.09.2021	30.9.2021	Stem : Modifications of aerial and underground stem. Leaf: Venation, phyllotaxy, simple and compound leaves, functions and modifications; internal structure (dicot and monocot leaves).	Lecture Method, Charts
<b>Departmental Meeting on 17.9.2021 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
October	01.10.2016	31.10.2021	Flower : As a modified shoot, functions; structure of anther and pistil; structure and development of male and female gametophytes.	Practical demonstration using Museum specimens. Field study

<b>Departmental Meeting on 23.10.2021 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
November	1.11.2021	30.11.2021	Double fertilization and its significance; different types of ovules and embryo-sacs.	Lecture Method, Seminars
	17.11.2021	25.11.2021	Mid Semester Examination	
<b>Departmental Meeting on 27.11.2021 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
December-January	24.12.2021	27.01.2022	P.U. Semester Examination	
<b>Departmental Meeting in January to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				

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**MCM DAV College for Women, Sector – 36A, Chandigarh**  
**Monthly Teaching Plans (Even Semester)**  
**Session–(2021-22)**

**Name of the Teacher/s:** Dr. Jasleen Kaur and Ms. Jyoti Shekhawat

**Department:** Botany

**Class:** B.Sc. (Med.) 2nd year

**Subject:** Paper B (STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS-II)

**Sections:** A and B

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
February	03.02.2022	28.02.2022	Tissue systems: Meristematic, shoot apex, root apex; simple and complex permanent tissues, special tissues; internal structure of primary dicot stem & root (Helianthus); secondary growth in dicot stem & root (Helianthus); internal structure of monocot stem & root (Zea mays); differences between dicot stem and monocot stem; differences between dicot root and monocot root.	Lecture Method, Field Study
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
March	01.03.2022	31.03.2022	Anomalous stem structure in Boerhaavia, Nyctanthes, Mirabilis and Dracaena. Various methods of vegetative propagation; micropropagation, basic technique and its importance.	Lecture Method, Field Study
	17.03.2022	25.03.2022	Mid semester Examination	
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				

April	01.04.2022	30.04.2022	Types of pollination, advantages and disadvantages of self and cross-pollination, contrivances for self and cross-pollination, various agencies to bring about cross-pollination, characters of flowers pollinated by different agencies	Lecture Method, Field Study
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
May	01.05.2022	24.05.2022	Seed formation: Development of endosperm and embryo. Fruit development, maturation and parthenocarpy. Significance of seed: Suspended animation; ecological adaptation and dispersal strategies.	Lecture Method, Field study
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
May, June & July	26.05.2022	05.7.2022	P.U. Practical/ Theory Examination	
<b>Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				

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