

**MEHR CHAND MAHAJAN DAV COLLEGE FOR WOMEN
SECTOR 36-A, CHANDIGARH**

**MONTHLY TEACHING PLANS (ODD SEMESTER)
SESSION (2024-25)**

Name of the Teacher/s: Dr. Gunjan Sud

Department: Botany

Class: B.Sc. (Med.) 2nd year (Semester III)

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

Sections: Single

Sr. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
July	15.7.2024	31.7.2024	General characteristics and economic importance of gymnosperms; differences between Gymnosperms and angiosperms; differences between manoxylic and pycnoxylic wood.	Lecture Method, PPT, PDF notes, Charts, Field Visits
Departmental Meeting on 30.7.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
August	01.08.2024	30.08.2024	Fossil gymnosperms: Brief account of fossils, their formation and types (excluding details). <i>Lyginopteris</i> : Introduction, external structure of stem; internal structure of primary stem, root and leaf; reproduction. <i>Williamsonia</i> : Introduction, external morphology; internal structure; reproductive organs, male and female flowers.	Lecture Method, PPT, PDF notes, Charts, Field Visits

Sr. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
September	01.09.2024	30.09.2024	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 <i>Cycas</i> .	Lecture Method, PPT, PDF Notes, Charts, Field Visits
Departmental Meeting on 30.9.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
October	01.10.2024	31.10.2024	MST Examinations - 1.10.2024-10.10.2024 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: <i>Pinus</i>	Lecture Method, PPT, PDF notes, Charts; Field Visits
Departmental Meeting on 31.10.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
November	1.11.2024	18.11.2024	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: <i>Ephedra</i> ; Revision	Lecture Method, PPT, PDF notes, Charts, Field Visits
Departmental Meeting held on 18.11.2024 to review the progress of syllabus and assessments of students.				
End Semester Examinations from 19.11.2024 – 26.12.2024				
Semester Vacation – Winter Break – 27.12.2024 – 09.01.2025				

**MEHR CHAND MAHAJAN DAV COLLEGE FOR
WOMEN
SECTOR 36-A, CHANDIGARH
Monthly Teaching Plans (Even Semester)
Session (2024-25)**

Name of the Teacher/s: Dr. Gunjan Sud

Department: Botany

Class: B.Sc. (Med.) 2nd year (Semester IV)

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

Sections: Single

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
January	10.1.2025	31.1.2025	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, PPT, PDF notes, Charts, Field Visits
Departmental Meeting held on 31.01.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.				
February	01.02.2025	28.02.2025	Terminology pertaining to floral description. General account and diagnostic features of the following families (excluding economic importance) :	Lecture Method, PPT, PDF notes, Charts, Field Visits

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
			Liliaceae : <i>Asphodelus/Asparagus</i> Gramineae (Poaceae) : <i>Triticum</i> Ranunculaceae : <i>Ranunculus</i> and <i>Delphinium</i>	
Departmental Meeting on 28.02.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
March	01.03.2025	31.03.2025	MST Examinations - 05.03.2025-13.03.2025. Brassicaceae : <i>Brassica</i> ; General account and diagnostic features of the following families (excluding economic importance): Rutaceae : <i>Citrus</i> and <i>Murraya</i> , Compositae (Asteraceae) : <i>Helianthus/Ageratum</i> Chenopodiaceae : <i>Chenopodium</i> ; General account and diagnostic features of the following families (excluding economic importance): Malvaceae : <i>Hibiscus</i>	Lecture Method, PPT, PDF notes, Charts, Field Visits
Departmental Meeting on 31.3.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
April	01.04.2025	26.04.2025	Fabaceae : <i>Lathyrus</i> , <i>Cassia</i> and <i>Acacia</i> Umbelliferae (Apiaceae) : <i>Coriandrum</i> General account and diagnostic features of the following families (excluding economic importance);Revision	Lecture Method, PPT, PDF notes, Charts, Field Visits
Departmental Meeting held on 14.04.2025 to review the progress of syllabus and assessments of students				
Practical Examinations: 15.04.2025-24.04.2025				
End Semester Examinations from 28.04.2025-04.06.2025				
Semester Vacation – Summer Break – 01.06.2025-13.07.2025				

*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

**MEHR CHAND MAHAJAN DAV COLLEGE FOR WOMEN
SECTOR 36-A, CHANDIGARH**

**Monthly Teaching Plans – Odd Semester (Semester III)
Session 2024-25**

Name of the Teacher/s: Dr. Purnima Bhandari

Department: Botany

Class: B.Sc. Medical II year

Subject: Paper B (Structure, Development and Reproduction in Flowering Plants-I)

Sections: Single

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken
	From	To		
July	15.07.2024	30.07.2024	The basic body plan of a flowering plant. Diversity in plant form in annuals, biennials and perennials.	PowerPoint presentations, group discussion, Assignments.
Departmental Meeting held on 30.07.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
August	01.08.2024	30.08.2024	Root system: Tap root and adventitious root system and their various types; structural and anatomical modifications for storage, respiration, and reproduction Stem: Modifications of aerial and underground stem. Leaf: Venation, phyllotaxy, simple and compound leaves, functions, and modifications; internal structure (dicot and monocot leaves).	PowerPoint presentations, group discussion.
Departmental Meeting held on 31.08.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.				
September	01.09.2024	30.09.2024	Flower: As a modified shoot, functions; structure of anther and pistil.	PowerPoint presentations, group discussion.

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken
	From	To		
Departmental Meeting held on 30.9.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.				
October	01.10.2024	31.10.2024	MST Examinations - 1.10.2024-10.10.2024 Double fertilization and its significance; different types of ovules and embryo-sacs.	Power point presentation, group discussion, assignments, Flipped classroom method.
Departmental Meeting held on 31.10.2024 to review the progress of syllabus as per lesson plans				
November	01.11.2024	18.11.2024	Revision and remedial Classes.	Discussion and assignments
Departmental Meeting held on 18.11.2024 to review the progress of syllabus and assessments of students.				
End Semester Examinations from 19.11.2024 – 26.12.2024				
Semester Vacation – Winter Break – 27.12.2024 – 09.01.2025				

**MEHR CHAND MAHAJAN DAV COLLEGE FOR WOMEN
SECTOR 36-A, CHANDIGARH**

**Monthly Teaching Plans – Even Semester (Semester IV)
Session 2024-25**

Name of the Teacher/s: Dr. Purnima Bhandari

Department: Botany

Class: B.Sc. Medical II year

Subject: Paper B (Structure, Development and Reproduction in Flowering Plants-II)

Sections: Single

Sr. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
January	10.01.2025	31.01.2025	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.	Power point presentation, group discussion, assignments.
Departmental Meeting held on 31.01.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.				
February	01.02.2025	28.02.2025	Anomalous stem structure in <i>Boerhaavia</i> , <i>Nyctanthes</i> , <i>Mirabilis</i> and <i>Dracaena</i> . Various methods of vegetative propagation; micropropagation, basic technique and its importance.	Power point presentation, group discussion, assignments.
Departmental Meeting held on 28.02.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.				

Sr. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
March	1.03.2025	31.03.2025	MST Examinations - 05.03.2025-13.03.2025. 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.	Power point presentation, group discussion, assignments.
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
April	01.04.2025	26.04.2025	Seed formation: Development of endosperm and embryo. Fruit development, maturation and parthenocarpy. Significance of seed: Suspended animation; ecological adaptation and dispersal strategies.	Power point presentation, group discussion, assignments.
Departmental Meeting held on 14.04.2025 to review the progress of syllabus and assessments of students.				
Practical Examinations: 15.04.2025-24.04.2025 End Semester Examinations from 28.04.2025-04.06.2025 Semester Vacation – Summer Break – 01.06.2025-13.07.2025				