

MCM DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans (Odd Semester)
Session–(2023-24)

Name of the Teacher/s: Dr. Gunjan Sud

Department: Botany

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

Subject: Paper A (DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATIC

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
July-August	24.7.2023	31.8.2023	General characteristics and economic importance of gymnosperms; differences between gymnosperms and angiosperms; differences between manoxylic an 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. d pycnoxylic wood.	Lecture Method, PPT, PDF notes,Charts
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
September	01.09.2023	30.09.2023	Williamsonia: Introduction, external morphology; internal structure; Reproductive organs, mStructure, 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> male and female flowers.	Lecture Method, PPT, PDF notes,Charts
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plan				

October	01.10.2023	31.10.2023	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
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans Mid Semester Test				
November	01.11.2023	22.11.2023	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>	Lecture Method, PPT, PDF notes, Charts
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
PU Semester examinations from December, 2023				

*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–(2023-24)

Name of the Teacher/s: Dr. Gunjan Sud

Department: Botany

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

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

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
January	09.1.2024	31.1.2024	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
February	01.02.2024	28.02.2024	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, PPT, PDF notes, Charts

Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans Mid Semester Test				
March	01.03.2024	31.03.2024	<p>Ranunculaceae : <i>Ranunculus</i> and <i>Delphinium</i></p> <p>Brassicaceae : Brassica; General account and diagnostic features of the following families (excluding economic importance):</p> <p>Rutaceae : <i>Citrus</i> and Murraya, Compositae (Asteraceae) : Helianthus/Ageratum</p> <p>Asclepiadaceae : <i>Calotropis</i></p> <p>Solanaceae : Solanum and <i>Petunia</i></p> <p>Labiatae (Lamiaceae) : <i>Ocimum</i></p> <p>Chenopodiaceae : Chenopodium; General account and diagnostic features of the following families (excluding economic importance):</p>	Lecture Method, PPT, PDF notes,Charts
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
April	01.04.2024	29.04.2024	<p>Malvaceae : <i>Hibiscus</i></p> <p>Fabaceae : <i>Lathyrus, Cassia</i> and <i>Acacia</i></p> <p>Umbelliferae (Apiaceae) : <i>Coriandrum</i></p> <p>General account and diagnostic features of the following families (excluding economic importance)</p>	Lecture Method, PPT, PDF notes,Charts
May			P.U. Practical/ Theory Examination	

*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 (Odd Semester)
Session–(2023-23)

Name of the Teacher/s: Dr. Jasleen Kaur

Department: Botany

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

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

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
July-August	27.07.2023	31.08.2023	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. Stem : Modifications of aerial and underground stem.	Lecture Method, PPT, PDF notes, Charts
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
September	01.09.2023	30.9.2023	Leaf: Venation, phyllotaxy, simple and compound leaves, functions and modifications; internal structure (dicot and monocot leaves).	Lecture Method, PPT, PDF notes, Charts

Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
October	01.10.2023	31.10.2023	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
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
November	1.11.2023	22.11.2023	Double fertilization and its significance; different types of ovules and embryo-sacs. Revision classes	Lecture Method, Seminars
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
December			P.U. Semester Examination	

***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–(2023-24)

Name of the Teacher/s: Dr. Jasleen Kaur

Department: Botany

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

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

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
January	9.01.2024	31.01.2024	Tissue systems: Meristematic, shoot apex, root apex; simple and complex permanent tissues, special tissues; internal structure of primary dicot stem & root (<i>Helianthus</i>); secondary growth in dicot stem & root (<i>Helianthus</i>); internal structure of monocot stem & root (<i>Zea mays</i>); differences between dicot stem And monocot stems; differences between dicot root and monocot root.	Lecture Method, Field Study
February	01.02.2024	28.02.2024	Anomalous stem structure in Boerhaavia, Nyctanthes, Mirabilis and Dracaena. Various methods of vegetative propagation; micropropagation, basic technique and its importance.	Lecture Method, Field Study

Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans Mid Semester Test				
March	01.03.2024	31.03.2024	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 Seed formation: Development of endosperm and embryo	Lecture Method, Field Study
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
April	01.04.2024	22.04.2024	. Fruit development, maturation and parthenocarpy. Significance of seed: Suspended animation; ecological adaptation and dispersal strategies.	Lecture Method, Field Study
May			P.U. Practical/ Theory Examination	
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				

*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