

MCM DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans (Odd Semester)
Session–(2022-23)

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- I)

Sections: A and B

| S.No. | Date (Monthly) | | Topics to be Covered | Academic Activity Undertaken* |
|---|-------------------|------------|---|--|
| | From | To | | |
| August | 16.8.2022 | 30.8.2022 | General characteristics and economic importance of gymnosperms; differences between gymnosperms and angiosperms; differences between manoxylic and pycnoxylic wood. | Lecture Method, PPT, PDF notes, Charts |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans | | | | |
| September | 01.09.2022 | 30.09.2022 | 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. | Lecture Method, PPT, PDF notes, Charts |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plan | | | | |
| October | 01.10.2022 | 31.10.2022 | Structure, reproduction (male and female strobilus; structure of ovule; development of male and female gametophytes; pollination, fertilization, | Lecture Method, PPT, PDF notes, Charts |

| | | | | |
|---|------------|------------|--|--|
| | | | development of embryo and structure of seed) and life cycle of Cycas. | |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans Mid Semester Test | | | | |
| November | 01.11.2022 | 25.11.2022 | 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; 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 | 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 26.11.2022 | | | | |

*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–(2022-23)

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)

Sections: A and B

| S.No. | Date (Monthly) | | Topics to be Covered | Academic Activity Undertaken* |
|---|-------------------|------------|---|--|
| | From | To | | |
| January | 16.1.2023 | 31.1.2023 | 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 | 01.02.2023 | 28.02.2023 | 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 | 01.03.2023 | 31.03.2023 | Ranunculaceae : Ranunculus and | Lecture Method, PPT, PDF notes, Charts |

| | | | | |
|---|------------|------------|--|--|
| | | | <p>Delphinium Brassicaceae : Brassica; General account and diagnostic features of the following families (excluding economic importance): Rutaceae : Citrus and Murraya, Compositae (Asteraceae) : Helianthus/Ageratum</p> | |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans | | | | |
| April | 01.04.2023 | 29.04.2023 | <p>Asclepiadaceae : Calotropis Solanaceae : Solanum and Petunia Labiatae (Lamiaceae) : Ocimum Chenopodiaceae : Chenopodium; 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)</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–(2022-23)

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)

Sections: A and B

| S.No. | Date (Monthly) | | Topics to be Covered | Academic Activity Undertaken* |
|---|-------------------|------------|--|---|
| | From | To | | |
| August | 17.08.2022 | 31.08.2022 | 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, PPT, PDF notes, Charts |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans | | | | |
| September | 01.09.2022 | 30.9.2022 | 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, PPT, PDF notes, Charts |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans | | | | |
| October | 01.10.2022 | 31.10.2022 | Flower : As a modified shoot, functions; structure of anther and pistil; structure and development of male | Practical demonstration using Museum specimens. Field study |

| | | | | |
|---|-----------|------------|---|--------------------------|
| | | | and female gametophytes. | |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans | | | | |
| November | 1.11.2022 | 25.11.2022 | 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–(2022-23)

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-II)

Sections: A and B

| S.No. | Date (Monthly) | | Topics to be Covered | Academic Activity Undertaken* |
|---|----------------|------------|---|-------------------------------|
| | From | To | | |
| January | 16.01.2023 | 31.01.2023 | 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 | 01.02.2023 | 28.02.2023 | 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 | 01.03.2023 | 31.03.2023 | Types of pollination, advantages and disadvantages of self and cross-pollination, contrivances for self | Lecture Method, Field Study |

| | | | | |
|---|------------|------------|--|-----------------------------|
| | | | and cross-pollination, various agencies to bring about cross-pollination, characters of flowers pollinated by different agencies | |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans | | | | |
| April | 01.04.2023 | 29.04.2023 | 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 |
| May-June | | | 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