MCM DAV College for Women, Sector – 36A, Chandigarh

**Monthly Teaching Plans (Odd Semester)**

**Session–(2020-21)**

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

**Department:** Botany

**Class:** B.Sc. (Med.) 2ndyear

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

**Sections:** A+B

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| **S.No.** | **Date**  **(Monthly)** | | **Topics to be Covered** | **Academic Activity Undertaken\*** |
| **From** | **To** |
| August | 13.08.2020 | 30.08.2020 | General characteristics and economic importance of gymnosperms; differences between  gymnosperms and angiosperms; differences between manoxylic and pycnoxylic wood. | Online Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| September | 01.09.2020 | 30.09.2020 | 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 Cycas. | Online Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| October | 01.10.2020 | 31.10.2020 | 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. | Online Lecture Method, PPT |
| November | 01.11.2020 | 30.11.2020 | Williamsonia: Introduction, external morphology; internal structure;  reproductive organs, male and female flowers. Pollination, fertilization, development of embryo and structure of seed)  and life cycle of:  Pinus | Online Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| December | 1.12.2020 | 24.12.2020 | Pollination, fertilization, development of embryo and structure of seed)  and life cycle of:  Pinus (Contd.) | Online Lecture Method, PPT |
|  | 07.12.2020 | 14.12.2020 | MST |  |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| January | 2.1.2021 | 31.1.2021 | 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, PPT |
| February | 1.2.2021 | 10.2.2021 | Revision |  |
|  | 15.2.2021 | 28.2.2021 | P.U.Semester Examinations |  |
| **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

**MCM DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans (Even Semester)**

**Session–(2020-21)**

**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

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| **S.No.** | **Date**  **(Monthly)** | | **Topics to be Covered** | **Academic Activity Undertaken\*** |
| **From** | **To** |
| April | 01.04.2021 | 30.04.2021 | 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 |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| May | 01.05.2021 | 31.5.2021 | Terminology pertaining to floral description.  General account and diagnostic features of the following families (excluding economic  importance) :  Liliaceae : Asphodelus/Asparagus  Gramineae (Poaceae) : Triticum  Ranunculaceae : Ranunculus and Delphinium  Brassicaceae : Brassica | Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| June | 02.6.2021 | 30.6.2021 | General account and diagnostic features of the following families (excluding economic  importance):  Rutaceae : Citrus and Murraya  Malvaceae : Hibiscus  Fabaceae : Lathyrus, Cassia and Acacia  Umbelliferae (Apiaceae) : Coriandrum | Lecture Method, PPT |
|  |  |  | Tentative MST |  |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| July | 01.07.2021 | 31.07.2021 | General account and diagnostic features of the following families (excluding economic  importance) :  Compositae (Asteraceae) : Helianthus/Ageratum  Asclepiadaceae : Calotropis  Solanaceae : Solanum and Petunia  Labiatae (Lamiaceae) : Ocimum  Chenopodiaceae : Chenopodium | Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| August | 01.8.2021 | 30.8.2021 | Tentative PU Semester 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

**MCM DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans (Odd Semester)**

**Session–(2020-21)**

**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

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| **S.No.** | **Date**  **(Monthly)** | | **Topics to be Covered** | **Academic Activity Undertaken\*** |
| **From** | **To** |
| August | 13.8.2020 | 30.08.2020 | The basic body plan of a flowering plant. Diversity in plant form in annuals, biennials and perennials. | Online Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| September | 01.09.2020 | 30.09.2020 | Root system: Tap root and adventitious root system and their various types; structural and anatomical  modifications for storage, respiration and reproduction. | Online Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| October | 01.10.2020 | 31.10.2020 | Stem : Modifications of aerial and underground stem. | Online Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| November | 01.11.2020 | 30.11.2020 | Leaf: Venation, phyllotaxy, simple and compound  leaves, functions and modifications; internal structure (dicot and monocot leaves). | Online Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| December | 1.12.2020 | 24.12.2020 | Flower : As a modified shoot, functions; structure of anther and pistil | Online Lecture Method, PPT |
|  | 7.12.2020 | 14.12.2020 | MST |  |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| January | 2.01.2021 | 31.01.2021 | Double fertilization and its significance; different types of ovules and embryo-sacs |  |
| February | 1.2.2021 | 10.2.2021 | Revision |  |
|  | 15.2.2021 | 28.2.2021 | P.U. Semester 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

**MCM DAV College for Women, Sector – 36A, Chandigarh**

**MonthlyTeaching Plans (Even Semester)**

**Session–(2020-2021)**

**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+B

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| --- | --- | --- | --- | --- |
| **S.No.** | **Date**  **(Monthly)** | | **Topics to be Covered** | **Academic Activity Undertaken\*** |
| **From** | **To** |
| April | 01.04.2021 | 30.4.2021 | Tissue systems: Meristematic, shoot apex, root apex; simple and complex permanent tissues, special  tissues; internal structure of primary dicot stem &amp; root (Helianthus); secondary growth in dicot stem &amp;  root (Helianthus); internal structure of monocot stem &amp; root (Zea mays); differences between dicot stem  and monocot stem; differences between dicot root and monocot root. | Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| May | 01.05.2021 | 31.05.2021 | Anomalous stem structure in Boerhaavia, Nyctanthes, Mirabilis and Dracaena. Various methods of  vegetative propagation; micropropagation, basic technique and its importance. | Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| June | 1.06.2021 | 30.06.2021 | 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, PPT |
|  |  |  | Tentative MST |  |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| July | 01.07.2020 | 31.07.2021 | Seed formation: Development of endosperm and embryo. Fruit development, maturation and  parthenocarpy. Significance of seed: Suspended animation; ecological adaptation and dispersal strategies. | Lecture Method, PPT |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans** | | | | |
| August | 03.5.2020 | 30.5.2020 | Tentative PU Semester 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