

**MEHR CHAND MAHAJAN DAV College for Women,  
Sector – 36 -A, Chandigarh  
Monthly Teaching Plans (Odd Semester- Semester I)  
Session: 2021-22**

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

**Department:** Botany

**Class:** B.Sc. (Med.) 1<sup>st</sup>year

**Subject:** Paper A (Plant Diversity-I; Subject code: 0052)

**Sections:** A and B

(MONTH)	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
<b>Departmental Meeting was held on 20.8.2021 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
September	25.09.2021	30.09.2021	Bacteria: Salient features, types and cell structure.	<b>ONLINE</b> / Lecture Method; Visual presentation through Google meet/Google Classroom
<b>Review Meeting was held on 30.9.2021 to discuss about the Monthly completion of Syllabus as per lesson plans</b>				
October	01.10.2021	30.10.2021	Algae: General Characters; systematic position, structure and life history of Oscillatoria (Cyanophyceae) Volvox(Chlorophyceae	<b>ONLINE</b> / Lecture Method; Visual presentation through Google meet/Google Classroom
<b>Departmental Meeting was held on 23.10.2021 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans and preparation of modules.</b>				
November	05.11.2021	30.11.2021	Cladophora (Chlorophyceae); Vaucheria (Xanthophyceae); Systematic position, structure and life history of Dictyota (Phaeophyceae); Batrachospermum (Rhodophyceae) and economic importance of algae. Fungi: General characters; systematic	<b>ONLINE</b> / Lecture Method; Visual presentation through Google meet/Google Classroom; You tube animations

			position, structure and life history of Albugo (White rust of crucifers: <i>Albugo candida</i> ), Rhizopus and Saccharomyces Systematic position, structure and life history of Agaricus, Ustilago (Loose smut of wheat: Ustilago tritici)	
<b>Mid semester Examinations - 17.11.2021 to 25.11.2021</b>				
December	01.12.2021	25.12.2021	Systematic position, structure and life history of Puccinia (Black rust of wheat: Puccinia graminis tritici), Colletotrichum (Red rot of sugarcane: Colletotrichum falcatum); general account of Lichens and their economic importance.	<b>ONLINE/</b> Lecture Method; Visual presentation through Google meet/Google Classroom; You tube animations; Notes
<b>PU Semester examinations from 27.12.2021 – 27.01.2022</b>				

**MEHR CHAND MAHAJAN DAV College for Women, Sector – 36A,  
Chandigarh  
Monthly Teaching Plans - SECOND (Even Semester)  
Session: 2021-22**

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

**Department:** Botany

**Class:** B.Sc. (Med.) FIRST year

**Subject:** Paper A (Plant Diversity-II; Subject code: 0152)

**Sections:** A and B

Month	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
<b>Departmental Meeting shall be held on 03.02.2022 to discuss the various activities to be undertaken in this semester and Review the Monthly plan of the semester</b>				
February	03.02.2022	28.02.2022	Bryophyta: General characters; systematic position, structure, reproduction and life cycle of Marchantia and Riccia (Hepaticopsida) excluding developmental stages	<b>ONLINE/</b> Lecture Method; Visual presentation through Google meet/Google Classroom; You tube animations; Notes
<b>Departmental Meeting shall be held on 01.03.2022 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
March	01.03.2022	31.03.2022	Systematic position, structure, reproduction and life cycle of Anthoceros (Anthocerotopsida) and Funaria (Bryopsida) excluding developmental stages.	<b>ONLINE</b> Lecture Method; Visual presentation through Google meet/Google Classroom; You tube animations; Notes cum Numericals
<b>Departmental Meeting shall be held on 31.03.2022 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
<b>Mid semester Test 17.3.2022-25.3.2022</b>				
April	01.04.2022	30.04.2022	Pteridophyta: General characters, systematic position, structure,	<b>ONLINE</b> Lecture Method; Visual presentation through Google meet/Google

			reproduction and life cycle of Rhynia (Psilophytopsida) and Selaginella (Lycopsida) excluding developmental stages.	Classroom; You tube animations; Notes
<b>Departmental Meeting shall be held on 30.04.2022 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
May	01.05.2022	25.05.2022	Systematic position, structure, reproduction and life cycle of Equisetum (Sphenopsida) and Pteris (Pteropsida) excluding developmental stages. <b>Revision Classes</b>	<b>ONLINE/</b> Lecture Method; Visual presentation through Google meet/Google Classroom; You tube animations; Assignments
<b>*Departmental meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
	26.05.2022	05.07.2022	PU Semester Examination	

**MEHR CHAND MAHAJAN DAV College for Women,  
Sector – 36 -A, Chandigarh  
Monthly Teaching Plans (Odd Semester- Semester I)  
Session: 2021-22**

**Name of the Teacher/s:** Dr. Purnima Bhandari and Ms. Jyoti Shekhawat

**Department:** Botany

**Class:** B.Sc. (Med.) First Year

**Subject:** Paper B (Cell Biology; Subject code: 0053)

**Sections:** A and B

(MONTH)	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
<b>Departmental Meeting was held on 20.8.2021 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
September	25.09.2021	30.09.2021	Ultrastructure and functions of a typical plant cell and its organelles: Nucleus, Mitochondrion, Plastids, Ribosome, Endoplasmic reticulum,	<b>ONLINE</b> Lecture Method; Visual presentation through Google meet/Google Classroom
<b>Review Meeting was held on 30.9.2021 to discuss about the Monthly completion of Syllabus as per lesson plans</b>				
October	01.10.2021	30.10.2021	Ultrastructure and functions of a typical plant cell and its organelles- Golgi apparatus, Lysosomes; Structure and functions of cell wall. Plasma membrane: fluid mosaic model only. Cell divisions: Mitosis	<b>ONLINE</b> Lecture Method; Visual presentation through Google meet/Google Classroom
<b>Departmental Meeting was held on 23.10.2021 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans and preparation of modules.</b>				
November	05.11.2021	27.11.2021	Meiosis in plants and its significance.	<b>ONLINE</b> Lecture Method; Visual presentation through

			<p>Synaptonemal complex;  DNA:  Structure (Watson and Crick model)Nucleosome, types of DNA and role of DNA, Replication of DNA.;</p> <p>Structure and concept of gene: One gene-one enzyme hypothesis;  Genetic Code: Characteristics, exceptions, Wobble hypothesis; RNA: Structure and types;</p>	<p>Google meet/Google Classroom; You tube animations</p>
<b>Mid semester Examinations - 17.11.2021 to 25.11.2021</b>				
December	01.12.2021	16.12.2021	<p>Transcription and translation; Regulation of gene expression in prokaryotes (Lac operon and Tryptophan operon) and in eukaryotes (a brief account). Physical structure of chromosome; Giant chromosomes: Polytene and Lampbrush chromosomes;</p> <p>Chromosomal alterations (deletion, duplication, inversion, translocation) and their importance; Variations in chromosome number, (aneuploidy and polyploidy) introduction and their importance.</p>	<p><b>ONLINE</b> Lecture Method; Visual presentation through Google meet/Google Classroom; You tube animations; Notes</p>
<b>PU Semester examinations from 17.12.2021 – 27.01.2022</b>				

**MEHR CHAND MAHAJAN DAV College for Women, Sector – 36A,  
Chandigarh  
Monthly Teaching Plans - SECOND (Even Semester)  
Session: 2021-22**

**Name of the Teacher/s:** Dr. Purnima Bhandari and Ms. Jyoti Shekhawat  
**Department:** Botany  
**Class:** B.Sc. (Med.) FIRST year  
**Subject:** Paper B (Genetics; Subject Code: 0155)  
**Sections:** A and B

Month	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
<b>Departmental Meeting shall be held on 03.02.2022 to discuss the various activities to be undertaken in this semester and Review the Monthly plan of the semester</b>				
February	03.02.2022	28.02.2022	Mendelism: Mendel's experiments and results, Mendel's Laws of Dominance, Segregation and Independent assortment; Linkage: complete and incomplete linkage, linkage groups, linkage maps, importance of linkage, cytological interpretation of Mendelism.	<b>ONLINE</b> Lecture Method; Visual presentation through Google meet/Google Classroom; You tube animations; Notes
<b>Departmental Meeting shall be held on 01.03.2022 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
March	01.03.2022	31.03.2022	Non-allelic Gene Interactions: Dominant and recessive epistasis, supplementary genes,	<b>ONLINE</b> Lecture Method; Visual presentation through Google meet/Google

			Complementary genes, quantitative or polygenic inheritance, duplicate genes. Allelic gene interactions: Incomplete dominance, codominance, multiple alleles, pleiotropic genes.	Classroom; You tube animations; Notes cum Numericals
<b>Departmental Meeting shall be held on 31.03.2022 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
<b>Mid semester Test 17.3.2022-25.3.2022</b>				
April	01.04.2022	30.04.2022	Genetic variations: Continuous and Discontinuous; Mutations: characteristics, types, importance, factors affecting mutations; Mutagens: Physical and chemical, mechanism of gene mutations; DNA damage and repair: Types of damage (Single base change and structural Distortion), types of repair system in prokaryotes and eukaryotes.	<b>ONLINE</b> Lecture Method; Visual presentation through Google meet/Google Classroom; You tube animations; Notes
<b>Departmental Meeting shall be held on 30.04.2022 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
May	01.05.2022	25.05.2022	Chromosome theory of heredity, parallelism between chromosome and Mendelian factors; Sex linked inheritance; Characteristics and examples (Haemophilia, colour-blindness); Cytoplasmic or extranuclear inheritance: mitochondrial and plastid DNA; plastid inheritance in <i>Mirabilis</i> , mitochondrial inheritance in Yeast. <b>Revision Classes</b>	<b>ONLINE</b> Lecture Method; Visual presentation through Google meet/Google Classroom; You tube animations; Assignments



<b>*Departmental meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans</b>				
	26.05.2022	05.07.2022	PU Semester Examination	