MEHR CHAND MAHAJAN DAV College for Women, Sector – 36 -A, Chandigarh Monthly Teaching Plans (Odd Semester- Semester I) Session: 2023-24

Name of the Teacher/s: Dr. Gunjan Sud Department: Botany Class: B.Sc. (Med.) 1styear Subject: Paper A (Plant Diversity-I; Subject code: 0052)

(MONTH)		ate nthly)	Topics to be Covered	Academic Activity Undertaken*
	From	То		
Departme	ntal Meeting to Co	oordinate and Rev	view the Monthly completion of Syll	abus as per lesson plans
July- August	27.07.2023	31.08.2023	Bacteria: Salient features, types and cell structure; Algae: General Characters; systematic position, Structure and life history of <i>Oscillatoria</i> (Cyanophyceae) <i>Volvox</i> (Chlorophyceae. Cladophora (Chlorophyceae)	Lecture Method; Charts,PPTs
September	1.09.23	30.09.2023	Vaucheria (Xanthophyceae); Systematic position, structure and life history of Dictyota (Phaeophyceae); Batrachospermum (Rhodophyceae) and economic importance of algae.	
Departmental M	feeting to Coordin	ate and Review t	he Monthly completion of Syllabus a	as per lesson plans
October	01.10.2023	31.10.2023	Fungi: General characters; systematic position,	Lecture Method; Charts,PPTs

			structure and life history of	
			structure and life history of	
			Albugo (White rust of	
			crucifers: Albugo candida),	
			Rhizopus and	
			Saccharomyces Systematic	
			position, structure and life	
			history of Agaricus,	
			Ustilago (Loose smut of	
			wheat: Ustilago	
			tritici)	
Departme	ntal Meeting to Co	oordinate and Rev	iew the Monthly completion of Sylla	bus as per lesson plans
	1		nester Examinations	
November	01.11.2023	30.11.2023	Systematic position,	Lecture Method;
			structure and life history of	Charts, PPTs
			Puccinia (Black rust of	
			wheat: Puccinia graminis	
			tritici), Colletotrichum (Red	
			rot of sugarcane:	
			Colletotrichum falcatum);	
			general account of Lichens	
			and their economic	
			importance.	
			Revision Classes	
		PU Semester exan	ninations from December, 2023	
			······································	

MEHR CHAND MAHAJAN DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans - SECOND (Even Semester) Session: 2023-24

Name of the Teacher/s: Dr. Gunjan Sud Department: Botany Class: B.Sc. (Med.) FIRST year Subject: Paper A (Plant Diversity-II; Subject code: 0152)

Month		nte nthly)	Topics to be Covered	Academic Activity Undertaken*
	From	То		
Departm	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Syl	llabus as per lesson plans
January	09.01.2024	31.01.2024	Bryophyta: General characters; systematic position, structure, reproduction and life cycle of <i>Marchantia</i> and <i>Riccia</i> (Hepaticopsida) excluding developmental stages	Lecture Method; Charts,PPTs
Departm	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Syl	llabus as per lesson plans
February	01.02.2024	28.02.2024	Systematic position, structure, reproduction and life cycle of <i>Anthoceros</i> (Anthocerotopsida) and <i>Funaria</i> (Bryopsida) excluding developmental stages.	Lecture Method; Charts,PPTs
Departm	ental Meeting to C		iew the Monthly completion of Sy d Semester Test	llabus as per lesson plans
March	01.03.2024	31.03.2024	Pteridophyta: General characters, systematic position, structure,	Lecture Method; Charts,PPTs

Departn	nental Meeting to C	oordinate and Rev	reproduction and life cycle of <i>Rhynia</i> (Psilophytopsida) and <i>Selaginella</i> (Lycopsida) excluding developmental stage; Systematic position, view the Monthly completion of Syl	labus as per lesson plans
April	01.04.2024	22.04.2024	Structure, reproduction and life cycle of <i>Equisetum</i> (Sphenopsida) and <i>Pteris</i> (Pteropsida) excluding developmental stages. Revision Classes .	Lecture Method; Charts,PPTs,Notes
Departn	nental Meeting to C	oordinate and Rev	iew the Monthly completion of Syl	labus as per lesson plans
May			PU Semester Examination	

MEHR CHAND MAHAJAN DAV College for Women, Sector – 36 -A, Chandigarh Monthly Teaching Plans (Odd Semester- Semester I) Session: 2022-23

Name of the Teacher/s: Dr. Purnima Bhandari Department: Botany Class: B.Sc. (Med.) First Year Subject: Paper B (Cell Biology; Subject code: 0053)

		ate	Topics to be Covered	Academic Activity
(MONTH)	(Mol From	nthly) To	-	Undertaken*
Demontral			a Manthly completion of Spillshur	
Departmental M	leeting to Coordin	ate and Kevlew th	e Monthly completion of Syllabus	as per lesson plans
July- August	24.07.2023	31.08.2023	Ultrastructure and functions of a typical plant	Lecture Method; Charts,PPTs,Notes
			cell and its organelles: Nucleus, Mitochondrion, Plastids,	
			Ribosome, Endoplasmic	
			reticulum, Ultrastructure	
			and functions of a typical	
			plant cell and its organelles- Golgi	
			organelles- Golgi apparatus, Lysosomes;	
			Structure and functions of	
			cell wall. Plasma	
			membrane: fluid mosaic	
			model only.	
Departmental M	leeting to Coordin	ate and Review th	e Monthly completion of Syllabus	as per lesson plans
<u> </u>	1.00.0000	20.00.2022		T
September	1.09.2023	30.09.2023	Cell divisions: Mitosis;	Lecture Method;
			Meiosis in plants and its	Charts, PPTs, Notes
			significance.	
			Synaptonemal complex; DNA:	
			Structure (Watson and	
			Crick model)Nucleosome,	
			types of DNA and role of	

			DNA, Replication of DNA.			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans Mid semester Examinations						
October	01.10.2023	31.10.2023	Structure and concept of gene: One gene-one enzyme hypothesis; Genetic Code: Characteristics, exceptions, Wobble hypothesis; RNA: Structure and types; Transcription and translation; Regulation of gene expression in prokaryotes (Lac operon and Tryptophan operon) and in eukaryotes (a brief account).	Lecture Method; Charts,PPTs,Notes		
November	1.11.2023	30.11.2023	Physical structure of chromosome; Giant chromosomes: Polytene and Lampbrush chromosomes; Chromosomal alterations (deletion, duplication, inversion, translocation) and their importance; Variations in chromosome number, (aneuploidy and polyploidy) introduction and their importance.			
December			PU Semester examinations			

MEHR CHAND MAHAJAN DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans - SECOND (Even Semester) Session: 2023-24

Name of the Teacher/s: Dr. Purnima Bhandari Department: Botany Class: B.Sc. (Med.) FIRST year Subject: Paper B (Genetics; Subject Code: 0155)

Month		ate nthly)	Topics to be Covered Academic Activ Undertaken*	
	From	То		
Departm	ental Meeting to C	oordinate and Rev	view the Monthly completion of Syl	llabus as per lesson plans
January	09.01.2024	31.01.2024	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.	Lecture Method; Charts,PPTs,Notes
February	03.02.2024	28.02.2024	Non-allelicGeneInteractions:Dominantandrecessiveepistasis,supplementarygenes,Complementarygenes,quantitativeorpolygenicinheritance,duplicategenes.Allelicgeneinteractions:	Lecture Method; Charts,PPTs,Notes

			dominance, codominance, multiple alleles,	
			pleiotropic genes.	
Departn	ental Meeting to C		iew the Monthly completion of Sylla d Semester Test	abus as per lesson plans
March	01.03.2024	31.03.2024	Geneticvariations:ContinuousandDiscontinuous; Mutations:characteristics, types,importance,factorsaffectingmutations;Mutagens:Physicalandchemical,mechanismofgenemutations;mutations;DNA damageandrepair:Typesofdamage(Singlebasechange and structuralDistortion),types of repairsystem in prokaryotes andeukaryotes.chromosomeheredity,parallelismbetweenchromosomeand	Lecture Method; Charts,PPTs,Notes
Departn	ental Meeting to C	oordinate and Rev	Mendelian factors; iew the Monthly completion of Syll:	abus as per lesson plans
April	01.04.2024	22.04.2024	Sex linked inheritance; Characteristics and examples (Haemophilia, colour- blindness);Cytoplasmic or extranuclear inheritance: mitochondrial and plastid DNA; plastid inheritance	Lecture Method; Charts,PPTs,Notes
			in Mirabilis, mitochondrial inheritance in Yeast.	
Departn	ental Meeting to C	oordinate and Rev	in Mirabilis, mitochondrial inheritance	abus as per lesson plans