MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester) Session–(2019-20)

Name of the Teacher/s: Dr. Gunjan Sud and Dr. Jasleen Kaur

Department: Botany

Class: B.Sc. (Med.) 1st year

Subject: Paper A Plant Diversity-I

S.No.		ate nthly)	Topics to be Covered	Academic Activity Undertaken*
	From	To		Onuci taken
July	15.07.2019	31.07.2019	Bacteria: Salient features, types and cell structure. Algae: General Characters; systematic position,	Lecture Method, PPT
Departme	ental Meeting to C	oordinate and Rev	view the Monthly completion of Sy	llabus as per lesson plans
August	01.08.2019	31.08.2019	structure and life history of Oscillatoria (Cyanophyceae) Volvox, Cladophora (Chlorophyceae); Vaucheria (Xanthophyceae).	Lecture Method, PPT
Departme	ental Meeting to C	oordinate and Rev	view the Monthly completion of Sy	llabus as per lesson plans
September	02.09.2019	30.9.2019	Systematic position, structure and life history of Dictyota (Phaeophyceae); Batrachospermum (Rhodophyceae) and economic importance of algae.	Lecture Method, PPT
Departme	ental Meeting to C	oordinate and Rev	view the Monthly completion of Sy	llabus as per lesson plans
October	01.10.2019	09.10.2019	Fungi: General characters; systematic position, structure and life history of Albugo (White rust of crucifers: Albugo candida)	Lecture Method, PPT
	10.10.2019	17.10.2019	Mid Semester Examination	

	18.10.2019	31.10.2019	General characters;	Lecture Method, PPT
			systematic position,	
			structure and life history of	
			Rhizopus and	
			Saccharomyces.	
Departme	ental Meeting to C	oordinate and Rev	view the Monthly completion of Syl	llabus as per lesson plans
November	1.11.2019	30.11.2019	Systematic position,	Lecture Method, PPT
			structure and life history of	
			Agaricus, Ustilago (Loose	
			smut of wheat: Ustilago	
			tritici), Puccinia (Black	
			rust of wheat: Puccinia	
			graminis tritici),	
			Colletotrichum (Red rot of	
			sugarcane:	
			Colletotrichum falcatum);	
			general account of Lichens	
			and their economic	
			importance.	
Departme	ental Meeting to C	oordinate and Rev	view the Monthly completion of Syl	llabus as per lesson plans
December	2.12.2019	24.12.2019	Tentative 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 MonthlyTeaching Plans (Even Semester) Session–(2019-20)

Name of the Teacher/s: Dr. Gunjan Sud and Dr. Jasleen Kaur

Department: Botany

Class: B.Sc. (Med.) 1st year

Subject: Paper A (Plant Diversity-II)

S.No.	Da	ate	Topics to be Covered	Academic Activity
	(Mor	nthly)		Undertaken*
	From	To		
January	09-012020	31.01.2020	Bryophyta: General characters; systematic position, structure, reproduction and life cycle of Marchantia and Riccia	Lecture Method, PPT
l			(Hepaticopsida) excluding	
			developmental stages.	
Departm	ental Meeting to C	oordinate and Rev	riew the Monthly completion of Sy	llabus as per lesson plans
February	01.02.2020	29.02.2020	Systematic position, structure, reproduction and life cycle of Anthoceros (Anthocerotopsida) and Funaria (Bryopsida) excluding developmental stages.	Lecture Method, PPT
Departm	ental Meeting to C	oordinate and Rev	view the Monthly completion of Sy	llabus as per lesson plans
March	02.3.2020	30.3.2020	Pteridophyta: General characters; systematic position, structure, reproduction and life cycle of Rhynia (Psilophytopsida) and Selaginella	Lecture Method, PPT
			(Lycopsida) excluding developmental stages.	

April	01.04.2020	19.04.2020	Systematic position, structure, reproduction and life cycle of Equisetum (Sphenopsida) and Pteris (Pteropsida) excluding developmental	Lecture Method, PP
	20.4.2020	27.4.2020	stages. Tentative PU Practical Examination	
Departn	nental Meeting to C	oordinate and Rev	view the Monthly completion of Syl	labus as per lesson plans
May	03.5.2020	30.5.2020	Tentative PU 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 (Odd Semester) Session–(2019-20)

Name of the Teacher/s: Dr. Purnima Bhandari and Dr. Ruby Singh

Department: Botany

Class: B.Sc. (Med.) 1st year

Subject: Paper B (Cell Biology)

S.No.	Da	ate	Topics to be Covered	Academic Activity
	(Mor	nthly)	_	Undertaken*
	From	To		
July	15.07.2019	31.07.2019	Ultrastructure and functions of a typical plant cell and its organelles:	Lecture Method
Departm	ental Meeting to C	oordinate and Rev	view the Monthly completion of Sy	llabus as per lesson plans
August	01.08.2019	31.08.2019	Nucleus, Mitochondrion, Plastids, Ribosome, Endoplasmic reticulum,	Lecture Method
Departme	ental Meeting to C	oordinate and Rev	view the Monthly completion of Sy	llabus as per lesson plans
September	02.09.2019	30.9.2019	Ultrastructure and functions of a typical plant cell and its organelles: Golgi apparatus, Lysosomes; Structure and functions of cell wall and plasma membrane: fluid mosaic model only.	Lecture Method
Departme	ental Meeting to C	oordinate and Rev	view the Monthly completion of Sy	llabus as per lesson plans
October	01.10.2019	09.10.2019	Physical structure of chromosome; Giant chromosomes: Polytene and Lampbrush chromosomes	Lecture Method
	10.10.2019	17.10.2019	Mid Semester Examination	

	18.10.2019	31.10.2019	Chromosomal alterations (deletion, duplication, inversion, translocation) and their importance; Variations in chromosome number, (aneuploidy and polyploidy) introduction and their importance. Cell divisions: Mitosis and Meiosis in plants and their significance, Synaptonemal complex,	Lecture Method
			DNA:	
			Structure (Watson and	
		11 /	Crick model),	11 1
Departme	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Sy	llabus as per lesson plans
November	1.11.2019	30.11.2019	Nucleosome, types of DNA and role of DNA, Replication of DNA. 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
Departme	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Sy	llabus as per lesson plans
December	2.12.2019	24.12.2019	P.U. Semester Examination	
Departmo	ental Meeting to C	oordinate and Rev	iew the Monthly completion of Sy	llabus 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–(2019-20)

Name of the Teacher/s: Dr. Purnima Bhandari and Ruby Singh

Department: Botany

Class: B.Sc. (Med.) 1st year **Subject:** Paper B (Genetics)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
January	09.01.2020	31.01.2020	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	Lecture Method
Departm	ental Meeting to C	oordinate and Rev	Mendelism. iew the Monthly completion of Sy	llabus as per lesson plans
February	01.02.2020	29.02.2020	Non-allelic Gene Interactions: Dominant and recessive epistasis, supplementary genes, complementary genes, quantitative or polygenic inheritance, duplicate genes. Allelic gene interactions: Incomplete dominance, codominance, multiple alleles, pleiotropic genes.	Lecture Method

March	02.3.2020	30.3.2020	Chromosome theory of	Lecture Method
			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 Mirabilis,	
			mitochondrial inheritance	
			in Yeast.	
Departn	nental Meeting to C	oordinate and Rev	riew the Monthly completion of Sylla	bus as per lesson plans
April	01.04.2020	19.04.2020	Genetic variations:	Lecture Method
Г			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.	
	20.4.2020	27.4.2020	PU Practical Examination	
			iew the Monthly completion of Sylla	bus as per lesson plans
Departn				
Departn	03.5.2020	30.5.2020	PU 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