

I – Academic Planner

A. Teaching Plan (Year : 2016-2017 Semester: Odd and Even)

B. Teacher's Name: Dr Vibha G. Checker Department: Botany

S. N o.	UPC	Paper Name	Core/AE CC/GE/ SEC	Topic/Unit	Start Date	End Date
ODD SEMESTER						
1		Biomolecules and Cell Biology/Theory	Core	Unit 1 Unit 6	20-7-2016 7-9-2016	31-8-2016 16-11-2016
2		Biomolecules and Cell Biology/Practical		<ol style="list-style-type: none"> 1. Qualitative tests for carbohydrates reducing sugars, non-reducing sugars, lipids and proteins. 2. Study of plant cell structure with the help of epidermal peel mount of Onion/Rhoeo/Crinum. 3. Demonstration of the phenomenon of protoplasmic streaming in Hydrilla leaf. 4. Measurement of cell size by the technique of micrometry. 5. Counting the cells per unit volume with the help of haemocytometer. (Yeast/pollen grains). 6. Study of cell and its organelles with the help of electron micrographs 7. Cytochemical staining of : DNA- Feulgen and cell wall in the epidermal peel of onion using Periodic Schiff's (PAS) staining technique. 8. Study the phenomenon of plasmolysis and deplasmolysis 9. Study the effect of organic solvent and temperature on membrane permeability. 10. Study different stages of mitosis and meiosis. 	25-7-2016	7-11-2016

3		Economic Botany/Theory	Core	Unit 3 Unit 6 Unit 9 Unit 4	22-8-16 12-8-16 23-9-16 18-10-16	5-8-16 2-9-16 7-10-16 2-11-16
4		Economic Botany/Practical	Core	1. Cereals: Wheat (habit sketch, L. S/T.S. grain, starch grains, micro-chemical tests)Rice (habit sketch, study of paddy and grain, starch grains, micro-chemical tests). 2. Legumes: Soya bean, Groundnut, (habit, fruit, seed structure, micro-chemical tests). 3. Sugars & Starches: Sugarcane (habit sketch; cane juice- micro-chemical tests), Potato(habit sketch, tuber morphology, T.S. tuber to show localization of starch grains, w.m. starch grains, micro-chemical tests). 4. Spices: Black pepper, Fennel and Clove (habit and sections). 5. Beverages: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans). 6. Oils & Fats: Coconut- T.S. nut, Mustard–plant specimen, seeds; tests for fats in crushedseeds. 7. Essential oil-yielding plants: Habit sketch ofRosa, Vetiveria, SantalumandEucalyptus (specimens/photographs). 8. Rubber: specimen, photograph/model of tapping, samples of rubber products. 9. Drug-yielding plants: Specimens of Digitalis, PapaverandCannabis. 10. Tobacco: specimen and products of Tobacco. 11. Woods: Tectona, Pinus: Specimen, Section of young stem. 12. Fibre-yielding plants: Cotton (specimen, whole mount of seed to show lint and fuzz;whole mount of fibre and test for cellulose), Jute (specimen, transverse section of stem, test for lignin on transverse section of stem and fibre).	23-7-16	5-11-16
5		Biodiversity (LS)	Core	Unit 2 Unit 1 Unit 6 Unit 7	26-7-16 6-9-16 11-10-16 2-11-16	30-8-16 4-10-16 25-10-16 8-11-16

5		Biodiversity	GE	Unit 2 Unit 6	1-8-16 17-10-16	10-10-16 31-10-16
6		Bioinformatics /Theory	Core	Unit 3 Unit 4 Unit 5	27-7-16 7-9-16 5-10-16	2-9-16 30-9-16 28-10-16
		Bioinformatics/ Practical	Core	1.Nucleic acid and protein databases. 2. Sequence retrieval from databases. 3. Sequence alignment. 4. Sequence homology and Gene annotation. 5. Construction of phylogenetic tree	29-7-16	28-10-16
EVEN SEMESTER						
5		Advanced Cell and Molecular Biology/Theory	DC-I	Unit 4 Unit 5 Unit 6 Unit 7 Unit 8 Unit 9 Unit 10	3-1-2017 17-1-2017 24-1-2017 7-2-2017 14-2-2017 3-3-2017 4-4-2017	13-1-17 20-1-17 3-2-2017 10-2-2017 28-2-2017 31-3-2017 14-4-2017
6		Advanced Cell and Molecular Biology/Practical	DC-I	1. Preparation of cheek cell smears to observe Barr bodies. 2. Preparation of LB medium and raising E.Coli. 3. Study of antibiotic resistance in E.Coli. 4. Isolation of genomic DNA from E.Coli. 5. Study of structure of transfer RNA : 2D and 3D through photographs. 6. Study of special chromosomes- Lampbrush and Salivary gland chromosome. 7. To calculate mitotic index and duration of stages in mitosis in temporary preparation of normal and colchicine hinted micrographs showing movement of proteins through endomembrane system	2-1-2017	7-4-17
7		Functional Plant Biology / Theory	DC-I	Unit 1 Unit 2 Unit 3 Unit 6 Unit 7	4-1-2017 26-1-2017 2-2-2017 8-2-2017 15-2-2017	2-3-2017 1-2-2017 2-2-2017 9-2-2017 16-2-2017

				Unit 8 Unit 9 Unit 10	22-2-2017 8-3-3017 29-3-2017	2-3-2017 23-3-2017 6-4-2017
8		Functional Plant Biology / Practical	GE II	<ol style="list-style-type: none"> 1. Quantitative estimation of peroxidase activity in the seedlings in the absence and presence of salt stress. 2. Superoxide activity in seedlings in the absence and presence of salt stress. 3. Zymographic analysis of peroxidase. 4. Zymographic analysis of superoxide dismutase activity. 5. Comparative maps of cereal grasses. 6. Nucleic acid and protein databases. 7. Sequence retrieval from databases. 8. Sequence alignment. 9. Sequence homology and Gene annotation. 	3-1-2017	6-4-2017

B. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

Event Topic	Ehtnobotany					
Type / Nature (FDP/Webinar/Workshop etc.)	workshop					
Organizing In-charge	Dept of Botany, Hansraj College and Institute of Life Long Learning, Delhi University					
Details regarding invited Resource Person						
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant					
Date/s	16-17 september 2016	Timing/s	10.00 am to 5.0 pm	Mode	Lecture and Hands on	

C. Internal Assessment: House Exam (Test/Presentation etc.)&Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
556	B.Sc.(H) Botany		Biomolecules and Cell Biology	Test 07 September 2016 Assignment 21Sept	Test 02 November 2016 Assignment 26 October
556	B.Sc.(H) Botany		Economic Botany	Test 30 September	Test 28 Oct
583	B.Sc.(LS)		Biodiversity	Test 4 October Assignment 23 Aug	Test 25 October Assignment 26 Sept
	GEI		Biodiversity	Test 24 October Assignment 6 September	Test 31 October Assignment 1 November
556	B.Sc.(H) Botany	3	Bioinformatics	Test 7 Oct Assignment 19 Aug	Test 11 Nov Assignment 11 Nov
556	B.Sc.(H) Botany		Advanced Cell and Molecular Biology	Test 28 February Assignment 2 February	Test 21 March Assignment 4 April
556	B.Sc.(H) Botany		Functional Plant Biology	Test 2 march Assignment 25 January	Test 6 April Assignment 29 March

Dr Vibha G. Checker

Department of Botany

I – Academic Planner

C. Teaching Plan (Year : 2017-2018 Semester: Odd and Even)

D. Teacher's Name: DrVibha G. Checker Department: Botany

S. No.	UPC	Paper Name	Core/AECC/GE/SEC	Topic/Unit	Start Date	End Date
ODD SEMESTER						
1	32167502	Biostatistics	DSE	Unit 3 Unit 4 Unit 5	24 July 11 Sept 16 Oct	4 Sept 9 Oct 6 Nov
2	32161302	Economic Botany	Core	Unit 3 Unit 4 Unit 5	25 July 22 Aug 10 Oct	8 Aug 26 Sept 17 Nov
3	42164301	Anatomy and Embryology	Core	Unit 5 Unit 6 Unit 7 Unit 8	29 July 26 Aug 29 Sept 28 Oct	19 Aug 16 Sept 14 Oct 11 Nov
4	32161201	Biodiversity	Core	Unit 2 Unit 1 Unit 6 Unit 7	25 July 29 Aug 10 Oct 31 Oct	29 Aug 26 Sept 31 Oct 7 Nov
5	32165101	Biodiversity	GE	Unit 2 Unit 6	5 Sept 24 Oct	17 Oct 7 Nov
EVEN SEMESTER						
5	42161201	Plant Ecology and Taxonomy	Core	Unit 1 Unit 2 Unit 3 Unit 4 Unit 5	6 Jan 13 Jan 17 Feb 10 March 31 March	6 Jan 10 Feb 24 Feb 31 March 7 April
6	32167608	Bioinformatics	DSE	Unit 3 Unit 4 Unit 5	4 Jan 22 Jan	15 Jan 12 Feb 12 March

				Unit 6	19 Feb 19 March	2 April
7	32165401	Analytical Techniques in Plant Science	Core	Unit 7 Unit 6 Unit 5 Unit 4 Unit 3	8 Jan 5 Feb 26 Feb 2 April 9 April	29 Jan 19 Feb 26 March 2 April 9 April
8	32165201	Ecology and Taxonomy	GE II	Unit 3 Unit4	24 Jan 14 Feb"/	7 Feb 4 April

D. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

Event Topic		The Bonsai Workshop			
Type / Nature (FDP/Webinar/Workshop etc.)		workshop			
Organizing In-charge		Dept of Botany, Miranda House, Delhi University			
Details regarding invited Resource Person		MrsSyamaBalbir, Indian Bonsai Association			
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant			
Date/s	22 March 2018	Timing/s	10.00 am to 4.0 pm	Mode	Lecture and Hands on

E. Internal Assessment: House Exam (Test/Presentation etc.)&Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
556	B.Sc.(H) Botany	32167502	Biostatistics	Test 25 September Assignment 11 Sept	Test 16 Oct Assignment 30 October
556	B.Sc.(H) Botany	32161302	Economic Botany	Test 26 September Assignment 11 October	Test 31 Oct Assignment 14 October
583	B.Sc.(LS)	4216430	Anatomy and Embryology	Test 7 October Assignment 16 Sept	Test 14 October Assignment 28 October
583	B.Sc.(LS)	42161101	Biodiversity	Test 10 October Assignment 19 Aug	Test 31 October Assignment 16 Sept
	GEI	32165101	Biodiversity	Test 17 October Assignment 14 October	Test 28 October Assignment 28 October
556	B.Sc.(LS)	42167904	Analytical Techniques in Plant Science	Test 5 Feb Assignment 12 February	Test 26 February Assignment 26 March
583	B.Sc.(LS)	42161201	Plant Ecology and Taxonomy	Test 10 March Assignment 17 February	Test 31 March Assignment 31 March
556	B.Sc.(H) Botany	32167608	Bioinformatics	Test 12 March Assignment 5 feb	Test 9 April Assignment 26 March
	GE II	32165201	Plant Ecology and Taxonomy	Test 28 February Assignment 21 February	Test 21 March Assignment 29 March

DrVibha G. Checker

Department of Botany

I – Academic Planner

E. Teaching Plan (Year : 2018-2019 Semester: Odd and Even)

F. Teacher's Name: DrVibha G. Checker Department: Botany

S. No.	UPC	Paper Name	Core/AECC/GE/SEC	Topic/Unit	Start Date	End Date
ODD SEMESTER						
1	32161301	Anatomy of Angiosperms	Core	Unit 4 Unit 5 Unit 6 Unit 7 Unit 8 Unit 9	23 July 13 Aug 10 Sept 24 Sept 22 Oct 5 Nov	6 Aug 3 Sept 17 Sept 15 Sept 29 Oct 5 Nov
2	32167502	Biostatistics	DSE	Unit 3 Unit 4 Unit 5	24 July 21 Aug 18 Sept	14 Aug 11 Sept 30 Oct
3	42161101	Biodiversity	Core	Unit 2 Unit 1 Unit 6 Unit 7	24 July 28 Aug 9 Oct 6 Nov	21 Aug 25 Sept 30 Oct 13 Nov
4	32165101	Biodiversity	GE	Unit 2 Unit 6	7 Aug 3 Oct	26 Sept 31 Oct
EVEN SEMESTER						
5	42161201	Plant Ecology and Taxonomy	Core	Unit 1 Unit 2 Unit 3 Unit 4 Unit 5	1 Jan 8 Jan 19 Feb 26 March 16 April	1 Jan 12 Feb 12 Feb 9 April 16 April
6	32167608	Bioinformatics	DSE	Unit 3 Unit 4 Unit 5	1 Jan 8 Jan 29 Jan	7 Jan 28 Jan 25Feb

				Unit 6	26 Feb 30 March	1 April
7	3216201	Plant Ecology and Taxonomy	GE II	Unit 3 Unit 4	5 Feb 19 March	12 March 30 April

F. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

Event Topic		Advanced Spectroscopy and Dynamic Light Scattering				
Type / Nature (FDP/Webinar/Workshop etc.)		Workshop				
Organizing In-charge		Dr. Anita Kamra, Department of Zoology, Kirori Mal College				
Details regarding invited Resource Person						
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant				
Date/s	9 October	Timing/s	10-4pm	Mode	Lecture and practical Training	

Event Topic		Introductory Evolutionary and Phylogenetic Biology				
Type / Nature (FDP/Webinar/Workshop etc.)		Workshop				
Organizing In-charge		HOD, Department of Botany				
Details regarding invited Resource Person		Prof R. Geeta, Department of Botany, Delhi University				

Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant			
Date/s	January 4-5 2019	Timing/s	10-4pm	Mode	Lecture and Practical

Event Topic	Microbes and Nanotechnology for Sustainable Environment				
Type / Nature (FDP/Webinar/Workshop etc.)	National Symposium				
Organizing In-charge	Dr. Rajni Gupta, Dept of Botany, Kirori Mal College, Delhi University				
Details regarding invited Resource Person	Indian Society of Analytical Scientists-Delhi Chapter				
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Organising Member			
Date/s	7 February 2019	Timing/s	10-4pm	Mode	Lectures

Event Topic	Environment and sustainable Development-New Perspective				
Type / Nature (FDP/Webinar/Workshop etc.)	Symposium				
Organizing In-charge	Dr. RekhaKathal, Dept of Botany, Daulat Ram College, Delhi University				
Details regarding invited Resource Person	Prof. Anushree Malik, Prof. RK Saxena, Dr. Faiyaz A Khudsar				
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant			
Date/s	14 February 2019	Timing/s	10-3pm	Mode	Lectures

Event Topic	Microbial and Biochemical Techniques				
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Type / Nature (FDP/Webinar/Workshop etc.)		Summer Training for students			
Organizing In-charge		Dr. Rajni Gupta, Dept of Botany, Kirori Mal College, Delhi University			
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Resource Person			
Date/s	24 June – 5 July 2019	Timing/s	10-4pm	Mode	Lecture and practical Training

Event Topic		Basic Laboratory Technique” for non-teaching staff			
Type / Nature (FDP/Webinar/Workshop etc.)		Workshop			
Organizing In-charge		Dr. Sunil K Dhiman, Dept of Botany, Kirori Mal College, Delhi University			
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Resource Person			
Date/s	12 July 2019	Timing/s	10-4pm	Mode	Lecture and Practical

G. Internal Assessment: House Exam (Test/Presentation etc.)&Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
556	B.Sc.(H) Botany	3216301	Anatomy of Angiosperms	Test 10 September Assignment 3 September	Test 22 October Assignment 22 October
556	B.Sc.(H) Botany	32167502	Biostatistics	Test 1 November Assignment 11 September	Test 6 November Assignment 1 November
583	B.Sc.(LS)	4216430	Biodiversity	Test 9 October Assignment 21 August	Test 30 October Assignment 9 October
	GE	32165101	Biodiversity	Assignment 25 Oct	Assignment 8 Nov
556	B.Sc.(H) Botany	32161201	Molecular Biology	Test 30 March Assignment 10 February	Test 6 April Assignment 2 March
583	B.Sc.(LS)	42161201	Plant Ecology and Taxonomy	Test 5 March Assignment 29 January	Test 9 April Assignment 12 March
556	B.Sc.(H) Botany	32167608	Bioinformatics	Test 5 March Assignment 11 Feb	Test 24 March Assignment 12 MArch

***Marks of the Internal Assessment to be submitted to the College 15 days before the last working day of every semester**

Dr. Vibha G Checker

Department of Botany

I – Academic Planner

G. Teaching Plan (Year : 2019-2020 Semester: Odd and Even)

H. Teacher's Name: DrVibha G. Checker Department: Botany

S. No.	UPC	Paper Name	Core/AECC/GE/SEC	Topic/Unit	Start Date	End Date
ODD SEMESTER						
1	32161301	Anatomy of Angiosperms	Core	Unit 4 Unit 5 Unit 6 Unit 7 Unit 8 Unit 9	22 July 19 Aug 16 Sept 23 Sept 21 Sept 28 Sept	12 Aug 9 Sept 16 Sept 23 Sept 21 Sept 28 Sept
2	32167502	Biostatistics	DSE	Unit 3 Unit 4 Unit 5	24 July 21 Aug 16 Oct	7Aug 18 Sept 6 Nov
3	42164301	Anatomy and Embryology	Core	Unit 1 Unit 2 Unit 3 Unit 4	23 July 20 Aug 3 Sept 1 Oct	13 Aug 27 Aug 24 Sept 29 Oct
4	32165101	Biodiversity	GE I	Unit 2 Unit 6	1 Aug 26 Sept	19 Sept 31 Oct
EVEN SEMESTER						
4	32161201	Molecular Biology	Core	Unit 2 Unit 6 Unit 7 Unit 8	6 Jan 10 Feb 16 March 6 April	3 Feb 2 March 30 March 20 April
5	42161201	Plant Ecology and Taxonomy	Core	Unit 1 Unit 2 Unit 3 Unit 4 Unit 5	7 Jan 13 Jan 11 Feb 2 March 6 April	7 Jan 4 Feb 25 Feb 30 March 13 April

6	32167608	Bioinformatics	DSE	Unit 3 Unit 4 Unit 5 Unit 6	2 Jan 13 Jan 17 Feb 30 March	9 Jan 13 Feb 27 March 9 april
7	32165401	Economic Botany and biotechnology	GE IV	Unit 10	28 Jan	21 April

H. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

Event Topic		DNA Barcoding and Metagenomics			
Type / Nature (FDP/Webinar/Workshop etc.)		Workshop			
Organizing In-charge		Dr. RenuKathpalia			
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Resource Person			
Date/s	19-20 September	Timing/s	10-4pm	Mode	Lecture and practical Training

Event Topic		Tinkering with Plant Genomes			
Type / Nature (FDP/Webinar/Workshop etc.)		Seminar			

Organizing In-charge	Miranda House, Department of Botany, Delhi University				
Details regarding invited Resource Person	Dr. Akhilesh Tyagi, Department of Plant Molecular Biology, South Campus, DU				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	6 July 2020	Timing/s	11 – 1 pm	Mode	Online Lecture

Event Topic	Impact Centric Research: Funding opportunities and challenges in framing successful research proposal				
Type / Nature (FDP/Webinar/Workshop etc.)	Seminar				
Organizing In-charge	Research Cell, Shivaji college, Delhi University				
Details regarding invited Resource Person	Prof. Upendra Choudhury				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	11 July 2020	Timing/s	1.30 – 4pm	Mode	Online Lecture

Event Topic	Entrepreneurship, Incubation and Innovation				
Type / Nature (FDP/Webinar/Workshop etc.)	FDP				
Organizing In-charge	Teaching Learning Centre, Ramanujan College, University of Delhi				
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	23 June-29 June	Timing/s	10 – 4 pm	Mode	Online Lectures and Tutorials

Event Topic	Orientation Programme for Faculty in University/Colleges/Institutes of Higher Education				
Type / Nature (FDP/Webinar/Workshop etc.)	Induction/Orientation				
Organizing In-charge	Teaching Learning Centre, Ramanujan College, University of Delhi				
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	26 June-24 July	Timing/s	10 – 4 pm	Mode	Online Lectures and Tutorials

Event Topic	ICT: Instructional Design, Development and learning Analysis				
Type / Nature (FDP/Webinar/Workshop etc.)	FDP				
Organizing In-charge	IQAC, Kirori Mal College and UGC – PARAMARSH				
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	24 July - 30 July	Timing/s	10 – 5pm	Mode	Online Lectures and Hands-on

I. Internal Assessment: House Exam (Test/Presentation etc.)&Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
556	B.Sc.(H) Botany	3216301	Anatomy of Angiosperms	Test 4 September Assignment 8 September	Test 9 Nov Assignment 5 Nov
556	B.Sc.(H) Botany	32167502	Biostatistics	Test 25 September Assignment 18 September	Test 16 October Assignment 6 November
583	B.Sc.(H) Botany	4216430	Anatomy and Embryology	Test 5 November Assignment 20 August	Test 7 November Assignment 24 September
556	B.Sc.(H) Botany	32161201	Molecular Biology	Test 30 March Assignment 10 February	Test 6 April Assignment 2 March
583	B.Sc.(LS)	42161201	Plant Ecology and Taxonomy	Test 2 March Assignment 13 January	Test 6 April Assignment 2 March
556	B.Sc.(H) Botany	32167608	Bioinformatics	Test 30 March Assignment 13 Jan	Test 9 April Assignment 17 February

***Marks of the Internal Assessment to be submitted to the College 15 days before the last working day of every semester**

Dr. Vibha G. Checker
Department of Botany

I – Academic Planner

I. Teaching Plan (Year: 2020-2021 Semester: Odd and Even)

J. Teacher's Name: Dr Vibha G. Checker Department: Botany

S. No.	UPC	Paper Name	Core/AE CC/GE/S EC	Topic/Unit	Start Date	End Date
ODD SEMESTER						
1	32161301	Anatomy of Angiosperms Theory	Core	Unit 6 Unit 7 Unit 8 Unit 9 Unit 10	14 Aug 4 Sept 9 Oct 20Oct 13Nov	1 Sept 29 Sept 13Oct 10 Nov 24 Nov
2	32167502	Biostatistics Theory	DSE	Unit 3 Unit 4 Unit 5	10 Aug 7 Sept 12 Oct	4 Sept 9 Oct 13 Nov
4	32165101	Biodiversity	GE I	Unit 1	17 Dec	2 March
5	32167502	Biostatistics Practical	DSE	1. Calculation of mean, median, mode, standard deviation and standard error 2. Calculation of correlation coefficient values and finding out the probability 3. Calculation of 'F' value and finding out the probability value for the F value.	12 Aug	25 Nov
6	42164301	Plant Anatomy and Embryology Practical	Core	1. Study of meristems through permanent slides and photographs. 2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs) 3. Stem: Monocot: Zea mays; Dicot:	13 Aug	26 Nov

				<p>Helianthus.</p> <ol style="list-style-type: none"> 4. Root: Monocot: Zea mays; Dicot: Helianthus 5. Leaf: Dicot and Monocot (only Permanent slides). 6. Adaptive anatomy: Xerophyte (Nerium leaf); Hydrophyte (Hydrilla stem). 7. Structure of anther (young and mature). 8. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/campylotropous 9. Female gametophyte: Polygonum (monosporic) type of Embryo sac (Permanent slides/photographs). 10. Pollination types and seed dispersal mechanisms (including appendages, aril,caruncle) Photographs/specimens). 11. Dissection of embryo/endosperm from developing seeds. 12. Calculation of percentage of germinated pollen in a given medium 			
EVEN SEMESTER							
4	32161201	Molecular Biology Theory	Core		Unit 2 Unit 7 Unit 8	7 Jan 11 Feb 18 March	4 Feb 11 March 15 April
6	32167608	Bioinformatics Theory	DSE	Unit 3	Unit 4 Unit 5 Unit 6	4 Jan 20 Jan 24 Feb 24 March	18 Jan 22 Feb 24 March 12April
7		Plant Physiology And Metabolism	Core		Unit 4 Unit 5	2 Jan 6 March	27 Feb 27 March

8		EVS	AECC	Unit 6 Unit 3	30 Jan 6 March	20 Feb 13 March
9		Plant Physiology And Metabolism	Core	<ol style="list-style-type: none"> 1. Determination of osmotic potential of plant cell sap by plasmolytic method. 2. To study the effect of the environmental factor light on transpiration by excised twig. 3. Calculation of stomatal index and stomatal frequency of a mesophyte and a xerophyte. 4. To Study Hill's reaction. 5. To study the activity of catalase and study the effect of pH and enzyme concentration. 6. To study the effect of light intensity on O₂ evolution in photosynthesis. 7. Comparison of the rate of respiration in any two parts of a plant. 8. Bolting. 9. Effect of auxins on rooting. 10. Suction due to transpiration. 11. Hydroponics (using a photograph). 12. To demonstrate the delay of senescence by cytokinins. 13. To study the phenomenon of seed germination (effect of light and darkness) 	7 Jan	8 April
10	32167608	Bioinformatics Practical	DSE	<ol style="list-style-type: none"> 1. Nucleic acid and protein databases. 2. Sequence retrieval from databases. 3. Sequence alignment. 4. Sequence homology and Gene annotation. 5. Construction of phylogenetic tree. 	6 Jan	7 April
11	32161601	Plant Metabolism Practical	Core	<ol style="list-style-type: none"> 1. Chemical separation of photosynthetic pigments. 2. Experimental demonstration of Hill's reaction. 3. To study the effect of light intensity on the rate of photosynthesis. 4. Effect of carbon dioxide on the rate of 	4 Jan	12 April

				<p>photosynthesis.</p> <ol style="list-style-type: none"> 5. To compare the rate of respiration in different parts of a plant. 6. To demonstrate activity of Nitrate Reductase in germinating leaves of different plant sources. 7. To study the activity of lipases in germinating oilseeds and demonstrate mobilization of lipids during germination. 8. Demonstration of fluorescence by isolated chlorophyll pigments. 9. Demonstration of absorption spectrum of photosynthetic pigments 10. Determination of RQ 11. To demonstrate activity of Lipase 		
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J. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

Event Topic		Colours in Nature			
Type / Nature (FDP/Webinar/Workshop etc.)		Webinar			
Organizing In-charge		Dr. RenuKathpalia, Kirori Mal College			
Details regarding invited Resource Person		Dr Geeta (Retd Gargi College)			
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant			
Date/s	22 August	Timing/s	3 to 5	Mode	Lecture

Event Topic	FLORICULTURE & TERRACE GARDENING				
Type / Nature (FDP/Webinar/Workshop etc.)	Webinar				
Organizing In-charge	Mahatma Gandhi Institute for Combating Climate Change, Bakoli, Delhi				
Details regarding invited Resource Person	Dr. S. S. Sindhu (Head of the Department Horticulture, Indian Agricultural Research Institute)				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	7 August	Timing/s	11 – 12.30pm	Mode	Online Lecture

Event Topic	Visual Note Taking				
Type / Nature (FDP/Webinar/Workshop etc.)	Webinar				
Organizing In-charge	IQAC, Planning division, Dr BR Ambedkar University				
Details regarding invited Resource Person	Mr, Zaid Ali Ulsagoff				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant				
Date/s	22 Sept 2020	Timing/s	11 – 12.30pm	Mode	Online Lecture

Event Topic	Innovation in Scientific Research Methods			
Type / Nature (FDP/Webinar/Workshop etc.)	FDP			
Organizing In-charge	Dr. Anita K Verma			
Details regarding invited Resource Person				
Nature of Participation (e.g. Invited Speaker, Participant etc.)	Participant			

Date/s	14-18 Oct 2020	Timing/s	4- 6pm	Mode	Online Lectures
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Event Topic		National Immunology day			
Type / Nature (FDP/Webinar/Workshop etc.)		Webinar			
Organizing In-charge		Department of Zoology, Kirori Mal College, University of Delhi.			
Details regarding invited Resource Person		Dr. Chauhan			
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant			
Date/s	29 April 2021	Timing/s	4- 6 pm	Mode	Online Lectures

Event Topic		World Environment Day			
Type / Nature (FDP/Webinar/Workshop etc.)		Student activity			
Organizing In-charge		Department of Botany and Zoology, Kirori Mal College, University of Delhi.			
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)		organizing team			
Date/s	5 JUNE 2021	Timing/s	11-2	Mode	Online Events

Event Topic		Environmental Audit			
Type / Nature (FDP/Webinar/Workshop etc.)		FDP			

Organizing In-charge		Sri Aurobindo College, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre (MHRFDC), Hansraj College			
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant			
Date/s	June 28 - July 2, 2021	Timing/s	2- 6 pm	Mode	Online Lectures

Event Topic		World Nature Conservation Day			
Type / Nature (FDP/Webinar/Workshop etc.)		Student activity			
Organizing In-charge		Department of Botany and Zoology, Kirori Mal College, University of Delhi.			
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Organizing team			
Date/s	28 JULY 2021	Timing/s	11-2	Mode	Student activity

Event Topic		Applications of Genomics, Metagenomics and Bioinformatics in Biological System			
Type / Nature (FDP/Webinar/Workshop etc.)		FDP			
Organizing In-charge		Department of Botany and Zoology, Kirori Mal College, University of Delhi.			
Details regarding invited Resource Person					
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant			
Date/s	16 - August 2021 to 20 August 2021	Timing/s	9- 6 pm	Mode	Online Lectures

K. Internal Assessment: House Exam (Test/Presentation etc.)&Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
556	B.Sc.(H) Botany	3216301	Anatomy of Angiosperms	Test 9 October Assignment 11 September	Test 10 Nov Assignment 17 Nov
556	B.Sc.(H) Botany	32167502	Biostatistics	Test 12 October Assignment 14September	Test 2 November Assignment 23 November
	GE 1	23 Feb	Bacteria and Viruses	23 Feb	2 March
556	B.Sc.(H) Botany	32161201	Molecular Biology	Test 25 March	Test 8 April
583	B.Sc.(LS)		Plant Physiology and Metabolism	Test 2 March Assignment 13 January	Test 6 April Assignment 2 March
556	B.Sc.(H) Botany	32167608	Bioinformatics	Test 3 April	Test 10 April

***Marks of the Internal Assessment to be submitted to the College 15 days before the last working day of every semester**

Dr. Vibha G. Checker

Department of Botany