ACADEMIC CALENDER AND ACADEMIC PLAN

Department of BOTANY, NETAJI NAGAR COLLEGE FOR WOMEN

HONOURS COURSE

1st Semester Honours Course (July 2022 - Dec 2022) CCH 01 (Theory)

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
		General Account	BM	Jul-22	-	
	PHYCOLOGY	Classification		Jul-22	01	01
7 (2)	100	Cyanobacteria		Aug-22	-	
CCH 01 (Theory)	PHY	Bacillariophyta		Aug-22	-	01
		Life History		Sep-22	02	01
	MICR O- BIOL OGY	Virus	SR	July-22	-	01
		Bacteria		Aug-22	02	01
	РНУСО LOGY	Work out of Algae	ВМ	July-22		
		Study from permanent slides		Aug-22		
		Preparation of bacterial media		Aug-22		
CCH 01 (Practical)	YĐƠ	Subculturing of bacterial culture	SR	Aug-22		
CC (Prac	BIOLO	Gram staining from bacterial culture		Sept-22		
	MICROBIOLOGY	Microscopic examination of bacteria from natural habitat (curd) by simple staining		Sept-22		

1st Semester Honours Course (July 2022 - Dec 2022) CCH 02

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
	MYCOLOGY	General Account, Classification		Jul-22	01	01
		Life History	UG	Jul-22	01	01
	IXCO	Mycorrhiza		Aug-22	01	01
02 ry)	Σ	Lichen		Aug-22	01	01
CCH 02 (Theory)		Terms and Definition		Sept-22	01	01
	PHYTO- PATHOLOGY	Host-parasite Interaction		Nov-22	02	
		Plant Disease Management		Nov-22	02	01
		Symptoms, Causal Organisms, Disease Cycle, Control Measures		Dec-22	03	01
	¥	Work out of the fungi with reproductive structures		Jul-22		
	MYCOLOGY	Study from permanent slides		Jul-22		
		Morphological study of Fungi		Aug-22		
. a		Preparation of fungal media (PDA).		Sept-22		
CCH 02 (Practical)	ASO	Sterilization process.	UG	Nov-22		
	ТОН	Isolation of pathogen from diseased leaf.		Nov-22		
	PHYTO-PATHOLOGY	Inoculation of fruit and sub-culturing.		Dec-22		
		Identification		Dec-22		

Name of the paper	Module	Topic	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
		Cell Wall		Jan-23	01	01
CCH 03 (THEORY)		Stomata		Feb-23	-	01
		Stele		Feb-23	01	
	>	Primary Structure of Stem and Root		March-23	-	01
	ANATOMY	Secondary Growth	SR	March-23	01	01
CC (THI	ANA	Mechanical tissues		April-23	-	01
		Developmental Anatomy		May-23	-	01
		Ecological Anatomy		May-23	-	
		Scope of Plant Anatomy		May-23	-	
03 C L)	0	Workout on Plant Anatomy	SR	Feb, March, April-23		
CCH 03 (PRAC TICAL)	ANATO MY	Identification with reasons	SK SK	May-23		

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests	
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	ъ	General Account		Jan-23	01	01
	BRYOPHYTE	Life History	UG	Feb-23	01	01
	BRY	Phylogeny		March-23	01	01
		Importance		April-23	01	01
ССН 04	Ą	General Account	- UG	Jan-23	01	01
(THEORY)	PHYT	Life History		Feb-23	01	01
	PTERIDOPHYTE	Telome theory, Heterospory, Origin of seed habit		March-23	02	01
	PTI	Economic importance		April-23	01	01
	GYMNOSPERM	Classification	ВМ	Jan-23	01	01
		Progymnosperm		Feb-23	01	01
	YMN	Life History		March-23	-	01
	(5)	Economic importance		April-23	-	01
	IYTE	Morphological study of the plant body		Jan-23		
AL)	BRYOPHYTE	Study from permanent slides	UG	Feb-23		
CCH 04 (PRACTICAL)	TE	Morphological study of the sporophytic plant body		March-23		
C (PRA	PTERIDOPHYTE	Workout of the reproductive structures	UG	April-23		
	PTERII	Study from permanent slides		May-23		

	SPERM	Morphological study		March-23						
	GYMNOSPERM	Study from permanent slides	BM	April-23						
3rd Semester Honours Course (July 2022 - Dec 2022) CCH 05										
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests				
	PALAEOBOTANY & PALYNOLOGY	Geological time scale	UG	Jul-22	01					
		Plant Fossils		Jul-22	01	01				
(X)		Fossil Pteridophytes		Aug-22	02	01				
CCH 05 (THEORY)		Fossil Gymnosperms		Aug-22	02					
) (T)		Indian Gondwana System		Sep-22	02	01				
	ALAEG	Palynology		Nov-22	02	01				
	.	Applied Palynology		Dec-22	01	01				
	3 2	Morphological study		July, August-22						
CCH 05 (PRACTICAL)	PALAEOBOTANY & PALYNOLOGY	Study from permanent slides	UG	Sept-22						
(P	PALA	Study of Pollen types		Nov, Dec-22						

3rd Semester Honours Course (July 2022 - Dec 2022) CCH 06

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
; Y)	_	Inflorescence types with examples		Jul-22	01	. 01
	3Y OF	Induction of flowering, flower development		Jul-22	01	
	IOLOG	Fruits and seeds	ВМ	Aug-22	01	
CCH 06 (THEORY)	OUCTIVE BIOLG ANGIOSPERMS	Pre-fertilization changes		Aug-22		01
(T)	REPRODUCTIVE BIOLOGY OF ANGIOSPERMS	Fertilization		Sep-22		01
		Post-fertilization changes		Nov-22		01
		Apomixis and Polyembryony		Dec-22	01	01
	OF	Study of Inflorescence types	SR	Jul-22		
S AL)	IOLOGY	Study of flower types		Aug-22		
CCH 06 (PRACTICAL)	OUCTIVE BIOLO ANGIOSPERMS	Study of fruit types		Aug-22		
(PR.	REPRODUCTIVE BIOLOGY OF ANGIOSPERMS	Study of ovules		Sep-22		

3rd Semester Honours Course (July 2022 - Dec 2022) CCH 07									
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests			
	8	Introduction		Jul-22		01			
	PERM	Nomenclature		Jul-22		01			
7 Y)	GIOSI	Systems of Classification		Aug-22	01	01			
CCH 07 (THEORY)	F AN	Phenetics and Cladistics		Aug-22		V1			
СС	TAXONOMY OF ANGIOSPERMS	Data Sources in Taxonomy		Sep-22		01			
		Diagnostic feature, systematic position and economic importance of different families of Monocotyledons and Dicotyledons		Nov-22	02	01			
CCH 07 (PRACTICAL)	TAXONOMY OF ANGIOSPERMS	Workout on Angiosperms	SR	Aug, Sept, Nov-22					
CC)	TAXONG ANGIOS	Spot Identification		Dec-22					
3rd Semeste	er Honours	Course (July 2022 - Dec 2022) SEC-A							
Name of the paper	Module	Торіс	Name of the teacher	To be completed during	No of PPT classes	Class Tests			

3-1	APPLIED PHYCOLOGY, MYCOLOGY AND MICROBIOLOGY	Applied Phycology	ВМ	Aug-22		01			
SEC –A-3-1	APPLIED PHYCOLOGY, IYCOLOGY AN IICROBIOLOG	Applied Mycology	UG	Sept-22	01	01			
S 2	PF MY MIC	Applied Microbiology	SR	Dec-22		01			
4th Semester Honours Course (Jan 2023 - Jun 2023) CCH 08									
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests			
	PLANT GEOGRAPHY, ECOLOGY AND EVOLUTION	Phytogeographical regions	- UG	Jan-23	01	01			
		Endemism		Feb-23	01	01			
I 08		Preliminary Idea		March-23	01	0.1			
CCH 08 (THEORY)		Community Ecology		March-23	01	01			
	PLAN OLOG	Conservation of Biodiversity		April-23	02	01			
	EC	Evolution		May-23	03	01			
	Χ,	Field visit and Study of local flora		Jan-23					
H 08	RAPH AND ON	Study of community structure by quadrat method	UG	Feb-23					
CCH 08 (PRACTICA	PLANT GEOGRAPHY, ECOLOGY AND EVOLUTION	Comparative anatomical studies of leaves form polluted and less polluted area		March-23					
	PL.	Measurement of dissolved O2 by azide modification of Winkler's method		March-23					

		Comparison of free CO2 from different sources		April-23		
4th Semeste	er Honours	Course (Jan 2023 - Jun 2023) CCH 09				
Name of the paper	Module	Topic	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
	ECONOMIC BOTANY	Origin of cultivated crops	BM	Jan-23	02	01
99 &Y)		Cereals		Feb-23	-	01
		Legumes		Feb-23	-	
		Sugar and starches		March-23	01	01
CCH 09 (THEORY)		Spices		March-23	-	U1
		Beverages		April-23	-	01
		Oil and fats:		April-23	01	
		Drug-yielding plants		May-23	01	01
		Timber; Fibers		May-23	-	
		Workout on Cereals, Legumes		Jan-23		
<u> </u>	ſANY	Source of sugars and starches		Feb-23		
CCH 09 (PRACTICAL)	ECONOMIC BOTANY	Tea- tea leaves, Microchemical tests for tannin	ВМ	Feb-23		
CC	OMI	Mustard		March-23		
(P)	CON	Habit sketch of Digitalis, Papaver and Cannabis		March-23		
	EC	Sal, Teak, Jute]	April-23		

4th Semester Honours Course (Jan 2020 - Jun 2020) CCH 10

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
10 (RY)		Introduction		Jan-23		
		Linkage, Crossing over, Gene Mapping and Molecular Mapping	SR	Jan-23		01
	IICS	Epistasis and Polygenic Inheritance in plants		Feb-23		01
CCH 10 (THEORY)	GENETICS	Aneuploidy and Polyploidy		Feb-23	01	O1
T)	IĐ	Chromosomal Aberration		April-23	01	01
		Mutation		April-23	01	
		Structural Organization of Gene		May-23	01	01
		Introduction to chromosome preparation		Jan-23		
		Determination of mitotic index and frequency of different mitotic stages		Jan-23		
I (T)	×	Study of mitotic chromosome		Jan-23		
CCH 10 (PRACTICAL)	GENETICS	Study of chromosomal aberrations	SR	Feb-23		
(PR.	5	Study of meiotic chromosome		March, April- 23		
		Identification from permanent slides		May-23		

4th Semester Honours Course (Jan 2023 - June 2023) SEC-B

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
	2	Introduction	UG	Jan-23	02	01
3-4-4	KOOM URE OLOGY	Cultivation technology	00	Feb-23	02	01
SEC-B.	MUSHROOM CULTURE TECHNOLOGY	Storage and nutrition	ВМ	March-23	01	01
	IV.	Food preparation		April-23	01	01

5th Semester Honours Course (July 2022 - Dec 2022) CCH 11

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
		Origin and Evolution of Cells	SR	Jul-22		01
	<u></u>	Nucleus and Chromosome		Jul-22	01	
1	.50G	Cell cycle and its regulation		Aug-22	01	01
CCH 11 (THEOR)	LL BIOLOGY	DNA Replication, Transcription and Translation (Prokaryotes & Eukaryotes)		Aug-22	01	
C (TH	Gene Regulation		Sep-22		01	
		Genetic Code:		Nov-22		01

		Recombinant DNA Technology		Dec-22	0	1
		Study of plant cell structure		Jul-22		
		Measurement of cell size by the technique of micrometry		Jul-22		
L)	GY	Counting cells per unit volume with the help of haemocytometer		Aug-22		
ССН 11	010I:	Cytochemical staining of DNA	SR	Aug-22		
CCH 11 (PRACTICAL)	CELL BIOLOGY	Estimation of DNA content		Sep-22		
	S	Estimation of RNA		Nov-22		
		Study of nucleolus		Dec-22		
		Preparation of models/ charts		Dec-22		

5th Semester Honours Course (July 2022 - Dec 2022) CCH 12

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
12 RY)	BIOCHEMISTRY	Biochemical Foundations:	ВМ	Jul-22	02	01
		Molecules of life – DNA, RNA, Protein, Carbohydrate, Lipid		Aug-22	04	01
CCH 12 (THEORY)	CHEM	Energy flow and enzymology		Sep-22	02	01
	BIO	Cell membrane		Oct-22	01	01
		Phosphorylation		Nov-22	02	01

Name of the paper	Module	Topic	Name of the teacher	To be Completed during	No of PPT classes	Class Tests		
5th Semester Honours Course (July 2022 - Dec 2022) DSE-A								
		Colorimetric estimation of protein by Folin phenol reagent	ВМ	Dec-22				
		Estimation of urease activity in plant samples		Dec-22				
		Estimation of catalase activity in plant samples and effect of substrate, enzyme concentration and pH on enzyme activity		Nov-22				
(1)	BI	Estimation of titratable acidity from lemon		Nov-22				
CCH 12 (PRACTICAL)	BIOCHEMISTRY	Estimation of glucose by Benedicts quantitative reagent		Nov-22				
H 12 FICAL	MISTR	Estimation of amino-nitrogen by formol titration method		Sept-22				
(>	Preparation of solutions and buffers		Sep-22				
		Detection of Ca, Mg, Fe, S from plant ash		Aug-22				
		Detection of the nature of carbohydrate – glucose, fructose, sucrose and starch		Aug-22				
		Detection of protein from plant samples.		Jul-22				
		Detection of organic acids		Jul-22				

		Biostatistics		Jul-22		01
1 (Y)	TICS	Biometry	SR	Jul-22		
DSE-A-1 (THEORY)	[ATIS	Central tendency		Aug-22		01
D)(TF	BIOSTATISTICS	Test of significance		Aug-22		01
	, ,	Probability		Sep-22		01
		Measurement of gene frequency		Nov-22		01
	DSE-A-1 (PRACTICAL) BIOSTATISTICS	Univariate analysis of statistical data	SR	Jul-22		
		Calculation of correlation coefficient values		Aug-22		
E-A-1 CTICAL)		Determination of goodness of fit in Mendellian and modified mono-and dihybrid ratios		Sept-22		
DS (PRA)		Calculation of 'F' value and finding out the probability value		Nov-22		
		Basic idea of computer programme for statistical analysis		Dec-22		
5th Semest	er Honours	Course (July 2022 - Dec 2022) DSE-B				
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
7-B	NT ECH OGY	Plant tissue culture	UG	Jul-22	01	01
DSE-B	PLANT BIOTECH NOLOGY	Callus culture	UU	Jul-22	01	UI

		Plant regeneration		Aug-22	01	01
		Haploid Culture		Sept-22	01	01
		Protoplast Culture		Nov-22	01	01
		Plant Genetic Engineering		Dec-22	02	01
	GY	Familiarization of basic equipments in plant tissue culture	UG	Aug-22		
DSE-B (PRAC TICAL	PLANT BIOTECHNOLOGY	Study through photographs/ charts/ models of anther culture, somatic embyogenesis, endosperm and embryo culture, micropropagation		Sept-22		
P Q T	T BIO	Preparation of basal media		Nov-22		
	PLAN	Demonstration of any tissue culture technique during visit in a plant tissue culture lab		Dec-22		
6th Semest	er Honours	Course (Jan 2023 - Jun 2023) CCH 13				
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
	OGY	Plant-water relations		Jan-23	02	01
CCH 13 (THEORY)	PLANT PHYSIOLOGY	Mineral nutrition	UG	Jan-23	02	VI
CCI		Organic Translocation		Feb-23	01	01
	PLAN	Plant Growth Regulators		Feb-23	03	U1

		Photomorphogenesis		March-23	03	01		
		Seed dormancy		April-23	01	01		
		Physiology of Senescence and Ageing		May-23	01	01		
		Determination of loss of water per stoma per hour		Jan-23				
		Relationship between transpiration and evaporation		Jan-23				
		Measurement of osmotic pressure of storage tissue	UG	Feb-23				
	R5	Measurement of osmotic pressure of Rhoeo leaf		Feb-23				
H 13	OTOIS	Effect of temperature on absorption of water by storage tissue and determination of Q_{10}		March-23				
CCH 13 (PRACTICAL)	PLANT PHYSIOLOGY	Rate of imbibition of water by starchy, proteinaceous and fatty seeds and effect of seed coat		April-23				
		Study of phenomenon of seed germination		April-23				
		Study of the induction of amylase activity in germinating grains		May-23				
		study of the effect of different concentrations of IAA on <i>Avena</i> coleopotile elongation		May-23				
6th Semest	6th Semester Honours Course (Jan 2023 - Jun 2023) CCH 14							
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests		

	M	Concept of metabolism		Jan-23		01			
_	LISM	Photosynthesis		Feb-23		01			
I 14 ORY)	ľABO	Respiration	BM	March-23					
CCH 14 (THEORY)	ľ MEJ	Nitrogen Metabolism	ЫVI	March-23		01			
	PLANT METABOLISM	Lipid metabolism		April-23		01			
		Mechanism of signal transduction	BM	May-23		01			
		A basic idea of chromatography		Jan-23					
		Separation of plastidial pigments by solvent and paper chromatography		Jan-23					
l î	LISM	Estimation of total chlorophyll content from different chronologically aged leaves		Feb-23					
CCH 14 (PRACTICAL)	PLANT METABOLISM	Effect of HCO ₃ concentration on oxygen evolution during photosynthesis		Feb-23					
(PR/	PLANT 1	Measurement of oxygen uptake by respiring tissue		March-23					
		Determination of the RQ of germinating seeds		April-23					
		Test of seed viability by TTC method		May-23					
6th Semest	6th Semester Honours Course (Jan 2023 - Jun 2023) DSE-A-3								
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests			

		Medicinal botany	SR	Jan-23	01
N3 (RY)	L AND	Pharmacognosy		Feb-23	01
DSE-A3 (THEORY)	MEDICINAL	Secondary metabolites		March-23	01
(T)	МЕР	Pharmacologically active constituents		April-23	01
		Ethnobotany and folk medicine		May-23	01
VL)	AND	Chemical tests for (a) Tannin (b) Alkaloid	SR	Jan-23	
DSE-A3		Powder microscopy		Feb-23	
DSE-A3 (PRACTICAL)	MEDICINAL AND ETHNOBOTANY	Histochemical tests OF Curcumin, Starch, Alkaloid		March-23	

6th Semester Honours Course (Jan 2021 - Jun 2021) DSE-B-8

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
		Natural resources	UG _	Jan-23	02	01
	RCE	Sustainable utilization		Feb-23	02	01
.B8 0RY)	RESOURCE FEMENT	Land		March-23	01	01
DSE-B8 (THEORY)		Water		March-23	01	01
	THE (THE NATURAL MANAC	Biological Resources		April-23	01	0.1
	Ħ	Forests		April-23	01	01

		Energy		April-23	01				
		Contemporary practices in resource management		May-23	02	24			
		National and international efforts in resource management and conservation		May-23	02	01			
		Estimation of solid waste generated by a domestic system		Jan-23					
	RCE	Estimation of foliar dust deposition	UG	Feb-23					
DSE-B8 (PRACTICAL)	NATURAL RESOURCE MANAGEMENT	Determination of total solid in water		March-23					
DSE-B8	RAL R	Determination of chemical properties of soil		April-23					
(P	NATU M	Estimation of organic carbon percentage present in soil		May-23					
		Collection of data on forest cover of specific area		May-23					
1st Semester	GENERAL COURSE 1st Semester General Course (July 2022 - Dec 2022) CCG 01								
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests			

	PLANT DIVERSITY I (PHYCOLOGY, MYCOLOGY, PHYTOPATHOLOGY, BRYOPHYTES AND ANATOMY)	Introduction to different plant groups	ВМ	Jul-22	01	01
CCG 01 (THEORY)	IVERSITY I (PHYOGY, PHYTOPATH BRYOPHYTES AND ANATOMY)	Phycology		Aug-22	02	01
CC (THI	VERSI GY, PH BRYO IND AI	Mycology	UG	Sept-22	02	01
	PLANT DF MYCOLOG	Phytopathology		Nov-22	02	01
		Bryophytes		Dec-22	02	01
		Anatomy	SR	Dec-22		01
l AL)	SITY I GY, SY, OLOGY SS AND Y)	Work out on algae and Fungi	UG BM	Jul-22		
CCG 01 (PRACTICAL)	ANT DIVERSIT (PHYCOLOGY, MYCOLOGY, YTOPATHOLC RYOPHYTES A ANATOMY)	Anatomical studies	SR	Aug-22		
C (PRA	PLANT DIVERSITY I (PHYCOLOGY, MYCOLOGY, PHYTOPATHOLOGY , BRYOPHYTES AND ANATOMY)	Identification with reasons	SR UG	Sept-22		

$2^{nd}\ Semester\ General\ Course\ \ (Jan\ 2023\ -\ Jun\ 2023)\ CCG\ 02$

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
02 RY)	ту ПУ П	Pteridophytes	UG	Jan-23	01	01
CCG 02 (THEORY)	PLANT DIVERSIT	Gymnosperms	ВМ	Feb-23	01	01

		Paleobotany & Palynology	UG	March-23	02	01
		Angiosperm Morphology		April-23		01
		Taxonomy of Angiosperms	SR	May-23		01
CCG 02 (PRACTICAL) PLANT DIVERSITY II		Workout on Angiospermic Plant		Jan-23		
	PLANT VERSITY	Identification with reasons	UG SR BM	Feb, March-23		
	Ma	Spot identification	SR	April-23		

3rd Semester General Course (July 2022 - Dec 2022) CCG 03

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
	D	Cell Biology and Genetics		Jul-22		01
	GENETICS AND	Chromosomal aberrations		Jul-22		01
)3 RY)	MICROBIOLOGY MICROBIOLOGY	Central Dogma, Transcription and Translation	SR	Aug-22		01
CCG 03 (THEORY)		Genetic Code- properties		Aug-22		
) (TE)	IOLO: AICR(Linkage group and Genetic map		Sep-22		01
	CELL BIOLOGY MICROBI	Mutation		Oct-22		01
	ົນ -	Brief concept of Split gene, Transposons		Nov-22		01

		Microbes		Dec-22		01
CCG 03 (PRACTICAL)	CELL BIOLOGY, GENETICS AND MICROBIOLOGY	Staining and squash preparation of onion root tip, study of mitotic stages, Determination of mitotic index	SR	Sept-22		
CCG 03 SACTICA	LL BIC ETICS ROBIC	Workout on gram staining		Nov-22		
(PR	- CEJ GEN MIC	Identification with reasons		Dec-22		
Name of the	Module	ourse (Jan 2023 - Jun 2023) CCG 04 Topic	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
рарсі		Proteins		Jan-23	Classes	01
	SM	Transport in plants		Feb-23		01
	ABOL.	Transpiration		March-23		01
4 X	META				02	- 01
2 3	M	Photosynthesis		March-23	02	
CCG 04 FHEORY	7 AND M	Photosynthesis Respiration	BM	March-23 April-23	02	01
CCG 04 (THEORY)	LOGY AND M		ВМ			01
CCG 04 (THEOR)	AYSIOLOGY AND M	Respiration	ВМ	April-23	02	01
CCG 04 (THEOR)	PLANT PHYSIOLOGY AND METABOLISM	Respiration Nitrogen metabolism	ВМ	April-23 April-23	02	01

May-23

Senescence

	SM	Experiment on Plasmolysis		Jan-23				
	AND METABOLISM	Measurement of leaf area and determination of transpiration rate per unit area by weighing method	ВМ	Feb-23				
CCG 04 (PRACTICAL)	GY AND]	Imbibition of water by dry seeds - proteinaceous and fatty seeds		March-23				
	PLANT PHYSIOLOGY	Imbibition of water by dry seeds - proteinaceous and fatty seeds		March-23				
	PLANTP	Evolution of CO2 during aerobic respiration and measurement of volume		April-23				
5 th Semeste	5 th Semester General Course (July 2022 - Dec 2022) CCG – DSE A1							
				To be				

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
		Medicinal botany		July-22		01
1	Y AND	Phramacognosy		Aug-22		01
CG-DSEA1 (THEORY)	EMISTRY AL BOTA	Organoleptic	BM	Sept-22		01
HL)	PHYTOCHEMISTRY MEDICINAL BOTA	Pharmcologically active constituents		Nov-22		01
	PHS M	Ethnobotany and folk medicine		Dec-22		01

AT T	ND Y	Preparations of solution and buffers		July-22	
	TRY AI	Acquaintance with laboratory instruments		Aug-22	
XG – DSE RACTIC∕	CHEMIST	Qualitative test for proteins and carbohydrates, reducing and non reducing sugar	ВМ	Sept-22	
CCG (PRA	PHYTO	Tests (chemical) for tannin and alkaloid		Nov-22	
		Identification of medicinal plants		Dec-22	

6th Semester General Course (Jan 2023 - July 2023) CCG – DSE B3

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class Tests
		Origin of cultivated plants	SR	Jan-23		01
B3	B3	Rice- origin, morphology and uses		Feb-23		01
CCG – DSE B3 (THEORY) ECONOMIC BOTANY	MIC BO	Legumes: General account with special reference to <i>Vigna</i>		March-23		01
HL)	ECONO	Beverages: Tea- morphology, processing and uses		April-23		01
		Study of the various economically important plants		May-23		01
CCG – DSE B3 (PRACTICAL)	ЛС	Study of economically important plants through herbarium specimens and field study		Jan-23		
G – D(ECONOMIC BOTANY	Study of cultivation practices in field	SR	Feb-23		
CCG (PRA)	EC	Study of local economically important plants		March-23		

		NEP System							
1st Semester Honours Course (July 2023 - Dec 2023) DSC/Core									
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class tests			
		Introduction to plant kingdom	BM	Jul-23	02	01			
	Σ	Algae	BM	Aug, Sep-23	03	02			
Minor (Theory)	PLANT DIVERSITY	Fungi	UG	Jul-23	02	01			
		Bryophytes		Aug-23	02	01			
		Pteridophytes		Sep-23	02	01			
		Gymnosperms	BM	Oct-23	02	01			
		Angiosperms	SR	Jul, Aug-23	02	02			
		Flower- dissection, drawing and study		Jul, Aug-23					
	IITY	Study of ovules: types		Sep-23					
or ical)	VERS	Fruits : different types	SR	Oct-23					
Minor (Practical)	PLANT DIVERSITY	Inflorescence types		Dec-23					
	PLA	Identification of Algae, Gymnosperm	BM	Aug, Sep-23					
		Identification of Fungi, Bryophyte, Pteridophyte	UG	Aug, Sep-23					
1st Semest	er Honours C	Course (July 2023 - Dec 2023) SEC							
Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class tests			

		Introduction, History of mushroom cultivation		July-23	01	01
		Current overview of mushroom production in the world		July-23	01	
		Mushroom biology-classification of mushrooms, edible mushrooms in India, poisonous mushrooms, mushroom poisoning		Aug-23	02	01
	>-	Infrastructure-structural design and layout of mushroom farm, substrates		Sep-23	01	O1
	,0G	Appliances for mushroom cultivation		Sep-23	01	0.1
	HNOI	Cultivation technology		Oct-23	01	01
	N TEC	Production of spawn		Dec-23	01	- 01
SEC 1 (Theory)	MUSHROOM CULTIVATION TECHNOLOGY	Cultivation of medicinal mushroom		Dec-23	01	
SE (The		Mushroom diseases and management strategies		July-23		0.1
		Post-harvest storage technology		July-23	01	01
	HROOM	Food preparations from mushrooms		Aug-23	01	01
	MUS	Uses of spent mushroom substrate		Aug-23	01	
		Strain improvements in cultivated mushroom	BM	Sep-23	01	01
		Nutritional and medicinal value of edible mushrooms		Sep-23		, , , , , , , , , , , , , , , , , , ,
		Research centres, Cost-benefit ratio		Oct-23	01	01
		Mushroom based Industry		Nov-23	01	01

		Mushroom market in India and abroad		Dec-23	01	01
SEC 1 (Practical) MUSHROOM CULTIVATION TECHNOLOGY	YĐOʻ	Macro and microscopic identification of some common edible mushrooms	- UG -	Aug-23		
	ECHINOI	Media preparation		Sep-23		
	TION T	Fungal tissue culture		Sep-23		
SEC 1 (Practical)	ULTIV?	Sub-culturing for maintenance of culture		Oct-23		
	ROOM C	Spawn production		Dec-23		
	MUSH	Cultivation of Pleurotus/Calocybe		Dec-23		

1st Semester Honours Course (July 2023 - Dec 2023) IDC

Name of the paper	Module	Торіс	Name of the teacher	To be Completed during	No of PPT classes	Class tests
	ID US	Introduction		Jul-23		01
IDC (Theory)	fS AROUND	Introduction to plant groups: Algae, Bryophytes, Pteridophytes, Gymnosperms, Angiosperm	SR	Aug-23		02
	PLANTS	Fungi -general character		Aug-23		

		Contributions of Theophrastus, Charak, Sushruta, Linnaeus, Mendel and J.C. Bose.		Sep-23		01
	Plant cell and tissue			Sep-23		01
Morphology of root, stem, leaf, flower, fruit and seed Phytodiversity and conservation Biodiversity hotspots of India Forest types in India		Morphology of root, stem, leaf, flower, fruit and seed		Oct-23		01
			July-23	01	01	
		Biodiversity hotspots of India		Aug-23	01	01
		Forest types in India	UG	Sep-23	01	01
		Plant-based adaptations to climate change		Oct-23	01	01
		Concept of 'Carbon footprint		Nov-23	01	01
		Plants in day-to-day life		Oct-23		01
	Important medicinal plants and their use		SR	Nov-23		01
Plant-derived medicinal compounds and uses		Plant-derived medicinal compounds and uses		Dec-23		01
C tical)	VTS JND	ldentification: Morphological study plant speclmens	SR	Jul, Aug- 23		
IDC (Practical)	PLANTS AROUND US	Microscopic study of Algae, Fungi, Bryophyte, Pteridophyte, Gymnosperm and angiosperm	UG SR	Sep, Oct-23		

Work out of flower	SR	Dec-23		
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