ACADEMIC PLANNER 2023-24 NAME OF THE DEPARTMENT:GENETICS(HONS) DSCC DISCIPLINE SPECIFIC CORE COURSE V SEMESTER Paper -V SUBJECT TITLE: DSCC5GENT5:GENE REGULATION AND DNA REPAIR

Semester	first	Paper	GULATION AND DNA REPAIR GENE REGULATION AND
Semester	nrst	1 apci	DNA REPAIR
Week/Month & Date (Preferably)	Day	Portions Planned for 1 hour	Teacher
OCTOBER	1	DNA Repair: single and double strand	PRIYADARSHINI P.A
FIRST WEEK	2	Photo reactivation	PRIYADARSHINI P.A
	3	Regulation of gene expression	JALAJAKSHI.S
	4	Spatial and temporal gene expression	JALAJAKSHI.S
OCTOBER	1	06 methyl guanine and methyl transferase	PRIYADARSHINI P.A
SECOND WEEK	2	Base excision repair	PRIYADARSHINI P.A
	3	Transcriptional control RNA polymerase	JALAJAKSHI.S
	4	Cis element and transcription factor	JALAJAKSHI.S
OCTOBER THIRD	1	Nucleotide and mismatch	PRIYADARSHINI P.A
WEEK	2	SOS Repair and mitochondrial repair	PRIYADARSHINI P.A
	3	Post transcriptional control : RNA editing	JALAJAKSHI.S
	4	Adenosine to inosine	JALAJAKSHI.S
OCTOBER FOURTH	1	Gene defect	PRIYADARSHINI P.A
WEEK	2	Xeroderma pigmentosum	PRIYADARSHINI P.A
	3	Cytoplasmic control mRNA Stability	JALAJAKSHI.S
	4	Environmental impact of transcription	JALAJAKSHI.S
	1	Ataxia and cocyane syndrome	PRIYADARSHINI P.A
NOVEMBER FIRST	2	Epigenetic gene regulation: introduction	PRIYADARSHINI P.A
WEEK	3	RNA interference	JALAJAKSHI.S
	4	Mechansim and enzymology	JALAJAKSHI.S
NOVEMBER SECOND	1	Gene regulation and types	PRIYADARSHINI P.A
WEEK	2	DNA modification (CpG) and DNA methyl transferase	PRIYADARSHINI P.A
	3	RISC complex formation	JALAJAKSHI.S
	4	Regulation of gene expression	JALAJAKSHI.S
NOVEMBER THIRD WEEK	1	DNA methyl binding protein and genomic printing	PRIYADARSHINI P.A
	2	Histones and epigenetic Modification	PRIYADARSHINI P.A
	3	Antisense RNA technology	JALAJAKSHI.S
	4	RNA expression	JALAJAKSHI.S
NOVEMBER FOURTH	1	Nucleosome model	PRIYADARSHINI P.A
WEEK	2	Nucleosome remodelling	PRIYADARSHINI P.A
	3	DNA microarray	JALAJAKSHI.S
	4	RT-PCR	JALAJAKSHI.S
DECEMBER FIRST WEEK	1	RNA based epigenetic modification	PRIYADARSHINI P.A
	2	Mechanism of X chromosome inactivation	PRIYADARSHINI P.A
	3	Promotor anaylasis	JALAJAKSHI.S
	4	Expression of reporter gene	JALAJAKSHI.S
	1	Role of small non coding RNAs	PRIYADARSHINI P.A
DECEMBED GECOND	2	MiRNA	PRIYADARSHINI P.A
DECEMBER SECOND WEEK	3	Promotor fusion in post cells	JALAJAKSHI.S
WEEK	4	Protein expression anaylasis	JALAJAKSHI.S
	1	SiRNA	PRIYADARSHINI .P.A
DECEMBED THIRD	2	sno RNA	PRIYADARSHINI. P.A
DECEMBER THIRD WEEK	3	Western blotting	JALAJAKSHI.S
W LLLK	4	2D- gel electrophoresis	JALAJAKSHI.S
	1	Translation regulation	PRIYADARSHINI.P.A
DECEMBER FOURTH	2	Role of long non coding RNA	PRIYADARSHINI.P.A
WEEK	3	Methylation sensitive restriction enzymes	JALAJAKSHI.S
	4	Fluroscences in situ hybridization	JALAJAKSHI.S
		ASSIGNMENTS CORRECTION AND DISC	
JANUARY FIRST	1	DNA methyl binding protein	PRIYADARSHINI P.A

ACADEMIC PLANNER 2023-24 NAME OF THE DEPARTMENT:GENETICS(HONS) DSCC DISCIPLINE SPECIFIC CORE COURSE

NAME OF THE DEPARTMENT:GENETICS(HONS) DSCC						
DISCIPLINE SPECIFIC CORE COURSE						
V SEMESTER Paper -V SUBJECT TITLE: DSCC5GENT5:GENE REGULATION AND DNA REPAIR						
WEEK	2	DNA methyl transferase	PRIYADARSHINI P.A			
	3	Heat shock genes	JALAJAKSHI.S			
	4	REVISION of UNIT 3	JALAJAKSHI.S			
JANUARY SECOND WEEK	1	Process of Histone methylation	PRIYADARSHINI P.A			
	2	Acetylation and phosphorylation	PRIYADARSHINI P.A			
	3	Revision of unit 3	JALAJAKSHI.S			
	4	Revision of unit 4	JALAJAKSHI.S			
JANUARY THIRD WEEK	1	Fanconi anemia	PRIYADARSHINI P.A			
	2	Translation regulation	PRIYADARSHINI P.A			
	3	Revision of unit 4	JALAJAKSHI.S			
	4	Test on unit 3	JALAJAKSHI.S			
JANUARY FOURTH WEEK	1	REVISION of UNIT 1	PRIYADARSHINI P.A			
	2	REVISION of UNIT 2	PRIYADARSHINI P.A			
	3	Test on unit 4	JALAJAKSHI.S			
	4	Paper discussion	JALAJAKSHI.S			
		SCHEME OF EXAMINATION AND OUESTION PAPE	ERS DISCUSSION			

ACADEMIC PLANNER 2023-24 NAME OF THE DEPARTMENT:GENETICS(HONS) DSCC

DISCIPLINE SPECIFIC CORE COURSE V SEMESTER Paper-6 SUBJECT TITLE: DSCC5GENT6:PLANT CELL AND TISSUE CULTURE TECHNOLOGY

Semester TECHNOLOGY	first	Paper	PLANT CELL AND TISSUE CULTURE TECHNOLOGY
Week/Month & Date (Preferably)	Day	Portions Planned for 1 hour	Teacher
OCTOBER	1	DNA Repair: single and double strand	PRIYADARSHINI P.A
FIRST WEEK	2	Photo reactivation	PRIYADARSHINI P.A
	3	Regulation of gene expression	JALAJAKSHI.S
	4	Spatial and temporal gene expression	JALAJAKSHI.S
OCTOBER	1	06 methyl guanine and methyl transferase	PRIYADARSHINI P.A
SECOND WEEK	2	Base excision repair	PRIYADARSHINI P.A
	3	Transcriptional control RNA polymerase	JALAJAKSHI.S
	4	Cis element and transcription factor	JALAJAKSHI.S
OCTOBER THIRD	1	Nucleotide and mismatch	PRIYADARSHINI P.A
WEEK	2	SOS Repair and mitochondrial repair	PRIYADARSHINI P.A
	3	Post transcriptional control : RNA editing	JALAJAKSHI.S
	4	Adenosine to inosine	JALAJAKSHI.S
OCTOBER FOURTH	1	Gene defect	PRIYADARSHINI P.A
VEEK	2	Xeroderma pigmentosum	PRIYADARSHINI P.A
	3	Cytoplasmic control mRNA Stability	JALAJAKSHI.S
	4	Environmental impact of transcription	JALAJAKSHI.S
	1	Ataxia and cocyane syndrome	PRIYADARSHINI P.A
NOVEMBER FIRST	2	Epigenetic gene regulation: introduction	PRIYADARSHINI P.A
VEEK	3	RNA interference	JALAJAKSHI.S
	4	Mechansim and enzymology	JALAJAKSHI.S
NOVEMBER SECOND	1	Gene regulation and types	PRIYADARSHINI P.A
VEEK	2	DNA modification (CpG) and DNA methyl transferase	PRIYADARSHINI P.A
	3	RISC complex formation	JALAJAKSHI.S
	4	Regulation of gene expression	JALAJAKSHI.S
NOVEMBER THIRD WEEK	1	DNA methyl binding protein and genomic printing	PRIYADARSHINI P.A
., 221	2	Histones and epigenetic Modification	PRIYADARSHINI P.A
	3	Antisense RNA technology	JALAJAKSHI.S
	4	RNA expression	JALAJAKSHI.S
NOVEMBER FOURTH	1	Nucleosome model	PRIYADARSHINI P.A
VEEK	2	Nucleosome remodelling	PRIYADARSHINI P.A
	3	DNA microarray	JALAJAKSHI.S
	4	RT-PCR	JALAJAKSHI.S
ECEMBER FIRST WEEK	1	RNA based epigenetic modification	PRIYADARSHINI P.A
	2	Mechanism of X chromosome inactivation	PRIYADARSHINI P.A
	3	Promotor anaylasis	JALAJAKSHI.S
	4	Expression of reporter gene	JALAJAKSHI.S
	1	Role of small non coding RNAs	PRIYADARSHINI P.A
ECEMBER SECOND	2	MiRNA	PRIYADARSHINI P.A
DECEMBER SECOND	3	Promotor fusion in post cells	JALAJAKSHI.S
VEEK	4	Protein expression anaylasis	JALAJAKSHI.S
	1	SiRNA	PRIYADARSHINI .P.A
SECTEMBED THESE	2	sno RNA	PRIYADARSHINI. P.A
DECEMBER THIRD	3	Western blotting	JALAJAKSHI.S
VEEK	4	2D- gel electrophoresis	JALAJAKSHI.S
	1	Translation regulation	PRIYADARSHINI.P.A
DECEMBER FOURTH	2	Role of long non coding RNA	PRIYADARSHINI.P.A
VEEK	3	Methylation sensitive restriction enzymes	JALAJAKSHI.S
· ==	4	Fluroscences in situ hybridization	JALAJAKSHI.S
	•	ASSIGNMENTS CORRECTION AND DISC	
ANUARY FIRST	1	DNA methyl binding protein	PRIYADARSHINI P.A
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WEEK			
WEEK	2	DNA methyl transferase	PRIYADARSHINI P.A
	3	Heat shock genes	JALAJAKSHI.S
	4	REVISION of UNIT 3	JALAJAKSHI.S
JANUARY SECOND WEEK	1	Process of Histone methylation	PRIYADARSHINI P.A
	2	Acetylation and phosphorylation	PRIYADARSHINI P.A
	3	Revision of unit 3	JALAJAKSHI.S
	4	Revision of unit 4	JALAJAKSHI.S
JANUARY THIRD WEEK	1	Fanconi anemia	PRIYADARSHINI P.A
	2	Translation regulation	PRIYADARSHINI P.A
	3	Revision of unit 4	JALAJAKSHI.S
	4	Test on unit 3	JALAJAKSHI.S
JANUARY FOURTH WEEK	1	REVISION of UNIT 1	PRIYADARSHINI P.A
	2	REVISION of UNIT 2	PRIYADARSHINI P.A
	3	Test on unit 4	JALAJAKSHI.S
	4	Paper discussion	JALAJAKSHI.S
		SCHEME OF EXAMINATION AND QUESTION PAPERS DISCUSSION	