

2024-25

NAME OF THE DEPARTMENT: GENETICS

I SEMESTER SUBJECT TITLE: DSCCGT1:CELL BIOLOGY(SEP Syllabus)

Semester	FIRST	Paper	cell biology - DSCGT1
Week/Month & Date (Preferably)	Day	Portions Planned for 1 hour	Teacher
AUGUST		MICROSCOPY- COMPOUND (DARK FIELD AND BRIGHT FIELD)	PRIYADARSHINI P.A
		CELL THEORY. PROKARYOTIC	PRIYADARSHINI P.A
		CELL CYCLE. CELL DIVISION-MITOSIS	JALAJAKSHLS
		MEIOSIS- STAGES	JALAJAKSHLS
AUGUST		FLUORESCENT MICROSCOPE	PRIYADARSHINI P.A
		PHASE CONTRAST	PRIYADARSHINI P.A
		APOPTOSIS-MECHANISIM AND SIGNIFICANCE	JALAJAKSHLS
		ULTRASTRUCTURE OF CHROMOSOME	JALAJAKSHLS
SEPTEMBER		EUKARYOTIC CELL	PRIYADARSHINI P.A
		ELECTRON MICROSCOPE	PRIYADARSHINI P.A
		ULTRASTRUCTURE OF CHROMOSOME- PRIMARY AND SECONDARY CONSTRICTION	JALAJAKSHLS
		SAT BODIES	JALAJAKSHLS
SEPTEMBER		ULTRASTRUCTURE, CHEMICAL COMPOSITION,AND FUNCTIONS OF RIBOSOMES	PRIYADARSHINI P.A
		ULTRASTRUCTURE, CHEMICAL COMPOSITION,AND FUNCTIONS OF RIBOSOMES	PRIYADARSHINI P.A
		POLYTENE CHROMOSOME	JALAJAKSHLS
		LAMPBRUSH CHROMOSOME	JALAJAKSHLS
SEPTEMBER		ULTRASTRUCTURE, CHEMICAL COMPOSITION,AND FUNCTIONS OF LYSOSOMES	PRIYADARSHINI P.A
		ULTRASTRUCTURE CHEMICAL COMPOSITION,AND FUNCTIONS OF GOLGICOMPLEX .	PRIYADARSHINI P.A

		PROKARYOTIC CHROMOSOME	JALAJAKSHLS
		EUKARYOTIC CHROMOSOME	JALAJAKSHLS
SEPTEMBER		ULTRASTRUCTURE CHEMICAL COMPOSITION, AND FUNCTIONS OF LYSOSOMES, GOLGICOMPLEX AND PEROXISOMES.	PRİYADARSHINI P.A
		ULTRASTRUCTURE, CHEMICAL COMPOSITION, AND FUNCTIONS OF MITOCHONDRIA	PRİYADARSHINI P.A
		CELL CYCLE REGULATION – CHECK POINTS	JALAJAKSHLS
		MITOSIS	JALAJAKSHLS
OCTOBER		ULTRASTRUCTURE, CHEMICAL COMPOSITION, AND FUNCTIONS OF NUCLEUS	PRİYADARSHINI P.A
		ULTRASTRUCTURE, CHEMICAL COMPOSITION, AND FUNCTIONS OF NUCLEUS	PRİYADARSHINI P.A
		PLASMA MEMBRANE: STRUCTURE, CHEMICAL COMPOSITION AND FUNCTIONS.	JALAJAKSHLS
		PLASMA MEMBRANE: STRUCTURE, CHEMICAL COMPOSITION AND FUNCTIONS.	JALAJAKSHLS
OCTOBER		LIGHT MICROSCOPE	PRİYADARSHINI P.A
		PHASE CONTRAST MICROSCOPE	PRİYADARSHINI P.A
		MITOSIS SIGNIFICANCE	JALAJAKSHLS
		MEIOSIS	JALAJAKSHLS
OCTOBER		MITOCHONDRIA	PRİYADARSHINI P.A
		GOLGIBODIES	PRİYADARSHINI P.A
		CELL SENESCENCE	JALAJAKSHLS
		CELL DEATH	JALAJAKSHLS
OCTOBER		CONCEPT OF CELL- CELL THEORY	PRİYADARSHINI .P.A
		CLASSIFICATION OF CELL TYPES	PRİYADARSHINI. P.A
		FUNDAMENTAL PROCESS OF NECROSIS	JALAJAKSHLS
		FUNDAMENTAL PROCESS OF NECROSIS	JALAJAKSHLS
NOVEMBER		MITOCHONDRIA	PRİYADARSHINI.P.A
		MITOCHONDRIA	PRİYADARSHINI.P.A
		DEFINITION- CHROMOSOME	JALAJAKSHLS

		DESCRIPTION OF CHROMATIN STRUCTURE	JALAJAKSHI.S
NOVEMBER		COMPARISON BETWEEN PLANT CELL AND ANIMAL CELL	PRIYADARSHINI P.A
		OPTICAL PATHWAY IN DIFFERENT MICROSCOPES	PRIYADARSHINI P.A
		EUKARYOTIC CHROMOSOME	JALAJAKSHI.S
		MACRO- MOLECULAR ORGANIZATION	JALAJAKSHI.S
NOVEMBER		OPTICAL PATHWAY IN DIFFERENT MICROSCOPES	PRIYADARSHINI P.A
		OPTICAL PATHWAY IN DIFFERENT MICROSCOPES	PRIYADARSHINI P.A
		SAT-BODIES,TELOMERES	JALAJAKSHI.S
		HISTONES	JALAJAKSHI.S
NOVEMBER		APPLICATION OF MICROSCOPY	PRIYADARSHINI P.A
		HIGH RESOLUTION	PRIYADARSHINI P.A
		DNA,NUCLEOSOMES	JALAJAKSHI.S
		HETEROCHROMATIN AND EUCHROMATIN	JALAJAKSHI.S
DECEMBER		HIGH CONTENT SCREEING BAND HIGH THROUGH IMAGING	PRIYADARSHINI P.A
		CLINICAL APPLICATION AND FORENSIC APPLICATON	PRIYADARSHINI P.A
		KARYOTYPE AND IDEOGRAM,SPECIAL TYPES OF CHROMOSOME	JALAJAKSHI.S
		SPECIAL TYPES OF CHROMOSOME	JALAJAKSHI.S
JANUARY SECOND WEEK		SCHEME OF EXAMINATION AND QUESTION PAPERS DISCUSSION	