

Course schedule: Genetics and Genomics

Date and Timing	Topic	No.of Hrs	Teaching Faculty
Day 1			
10 am-12 pm	Mendelian genetics (THEORY)	2	Dr Lavanya
2 pm-4 pm	DNA and RNA Isolation C-value Paradox (PRACTICALS)	2	Dr Lavanya/ Dr Pavithra
Day 2			
9.30 am-11.30 am	Linkage and Crossing Over (THEORY)	2	Dr Malali
2 pm-4 pm	DNA and RNA Isolation C-value Paradox (PRACTICALS)	2	Dr Lavanya/ Dr Pavithra
Day 3			
9.30 am-11.30 am	Linkage and Crossing Over (THEORY)	2	Dr Malali
Day 4			
10 am-1 pm	Mendelian genetics (THEORY)	1	Dr Lavanya
2 pm-4 pm	DNA and RNA Isolation C-value Paradox (PRACTICALS)	2	Dr Lavanya/ Dr Pavithra
Day 5			
10.30 am-11.30 am	Qualitative & Quantitative traits	1	Dr Malali
2 pm-4 pm	DNA and RNA Isolation C-value Paradox, , (PRACTICALS)	2	Dr Lavanya/ Dr Pavithra
Day 6			
10 am-12 pm	Cytoplasmic inheritance	2	Dr. Pavithra
2.00 pm-4 pm	PCR, Gel Electrophoresis	2	Dr Lavanya/ Dr Pavithra
Day 7			
10 am-12 pm	Introduction to Genome,	2	Dr Malali
2pm -4 pm	DNA Sequencing - Next Generation Sequencing (THEORY)	2	Dr Malali
Day 8			
10.30 am-12.30 pm	DNA Sequencing - Next Generation Sequencing (THEORY)	2	Dr Malali

	Introduction to Bioinformatics - BLAST, FASTA, NCBI, GenBank (SELF LEARNING)	2	
	Seeds & Embryo (SELF LEARNING)	1	
	Assignments (C-value paradox, Sanger Sequencing)	1	
		30	