

Summary of Lesson Plans of College Faculty (Biotechnology Deptt.)

Name of College: Govt. College Jind

Academic Session: 2022-23 Semester: Even Feb to May 2023

Sr No.1	Name of Assistant / Associate Professor	Subject /Month	Topics / Chapters to be covered
1	Dr. Poonam		
	B.Sc. Ist Year Semester- II	Biotechnology	
	Paper IV Biochemistry II	Feb	Enzymes
		March	Vitamins and Hormones
		April	Carbohydrates metabolism, Lipid Metabolism
		May	Amino acid Metabolism
2	Dr. Poonam		
	B.Sc. IInd Year Semester- IV	Biotechnology	
	Paper IX. Bioinformatics	Feb	Introduction to Genomics
		Mar	Functional Proteomics, Computational Genomics
		April	Sequence alignment and data base search, Predictive methods using DNA and protein sequences
		May	Structural data bases
3	Dr. Poonam		
	B.Sc. IIIrd Year Semester- VI	Biotechnology	
	Paper XIII. Microbial Biotechnology	Feb	Microbial Biotechnology Introduction
		March	Screening and Isolation of Micro organisms
		April	Nutrition and cultivation of microorganisms, Microbial Fermenters/Bioreactors
		May	Process Development and Downstream Processing

Sr No.2	Name of Assistant / Associate	Subject /Month	Topics / Chapters to be covered
1	Dr. Virender Kumar		
	B.Sc. Ist Year Semester- II	Biotechnology	
	Paper III. General Microbiology	Feb	Introduction and Microscopy
		Mar	Sterilization and staining techniques
		April	Microbial Taxonomy & Pathogenic Microorganisms
		May	Microbial Growth and Metabolism
2	Dr. Virender Kumar	Biotechnology	
	B.Sc. IInd Year Semester- IV		
	Paper VIII. Recombinant DNA	Feb	Introduction & Tools of Recombinant DNA technology
		Mar	In vitro construction of r-DNA molecules, Transformation, Gene Libraries
		April	PCR, DNA Sequencing, Genome Sequencing
		May	Gene expression in prokaryotes & Applications of Recombinant DNA technology
3	Dr. Virender Kumar		
	B.Sc. IIIrd Year Semester- VI	Biotechnology	
	Biotechnology	Feb	Microbial Products, Steroid Biotransformation
		Mar	Microbial Foods, Sewage waste water treatment technique and plants
		April	Microbial polysaccharides and polyesters, Bioconversions
		May	Microbial technology in agriculture, Genetically engineered microbes