



Programme Title: B.Sc. Microbiology, Genetics, Biochemistry
Three Majors in Semesters I – IV, Two majors in Semesters V and VI and One Major in
Semesters VII and VIII
2025-2026 BATCH

Sem.	Course Type	Course Title	Credits
I	DSC	General Microbiology	3
I	DSC	General Microbiology Practical	1
I	DSC	Principles of Genetics	3
I	DSC	Principles of Genetics Practical	1
I	DSC	Biophysical Chemistry	3
I	DSC	Biophysical Chemistry Practical	1
I	SEC	Mushroom Cultivation Technology	3
II	DSC	Microbial Taxonomy and Physiology	3
II	DSC	Microbial Taxonomy and Physiology Practical	1
II	DSC	Cell Structure and Dynamics	3
II	DSC	Cell Structure and Dynamics Practical	1
II	DSC	Biomolecules	3
II	DSC	Biomolecules Practical	1
II	SEC	Nutrition and dietetics	3
III	DSC	Microbial Diversity	3
III	DSC	Microbial Diversity Practical	1
III	DSC	Cytogenetics	3
III	DSC	Cytogenetics Practical	1
III	DSC	Bioanalytical Techniques	3
III	DSC	Bioanalytical Techniques Practical	1
III	SEC	Food Science and Technology	3
IV	DSC	Microbial Genetics and Molecular Biology	3
IV	DSC	Microbial Genetics and Molecular Biology Practical	1
IV	DSC	Human Genetics and Genetic Counselling	3
IV	DSC	Human Genetics and Genetic Counselling Practical	1
IV	DSC	Human Physiology	3
IV	DSC	Human Physiology Practical	1
IV	SEC	Basics of Bioinformatics	3
IV	CC	Certificate course	2
V	DSC	Food and Dairy Microbiology	4
V	DSC	Food and Dairy Microbiology Practical	2
V	DSC	Immunology and Medical Microbiology	4
V	DSC	Immunology and Medical Microbiology Practical	2
V	DSC	Research Methodology	4
V	DSC	Developmental Genetics Practical	2
V	DSC	Evolutionary and Population Genetics	4
V	DSC	Evolutionary and Population Genetics Practical	2
V	DSC	Advanced Biomolecular Chemistry	4
V	DSC	Advanced Biomolecular Chemistry Practical	2



V	DSC	Enzymes and Enzyme Technology	4
V	DSC	Enzymes and Enzyme Technology Practical	2
V	DSC	Research Methodology	4
V	SI	Internship	2
VI	DSC	Applied Microbiology	4
VI	DSC	Applied Microbiology Practical	2
VI	DSC	Human Genetics and Genetic Counselling	4
VI	DSC	Human Genetics and Genetic Counselling Practical	2
VI	DSC	Intermediary Metabolism	4
VI	DSC	Intermediary Metabolism Practical	2
VI	RPD	Research Project	4
VII	DSC	Recombinant DNA Technology	4
VII	DSC	Recombinant DNA Technology Practical	4
VII	DSC	Genomics, Proteomics and Metabolomics	4
VII	DSC	Genomics, Proteomics and Metabolomics Practical	4
VII	DSC	Bioinformatics and Drug Development	2
VII	DSC	Biostatistics & Bioinstrumentation	2
VII	DSC	Genetic Toxicology	4
VII	DSC	Genetic Toxicology Practical	2
VII	DSC	Immunogenetics	4
VII	DSC	Immunogenetics Practical	2
VII	DSC	Microbial Genetics	4
VII	DSC	Conservation Genetics	4
VII	DSC	Clinical Biochemistry	4
VII	DSC	Molecular Physiology	4
VII	DSC	Molecular Biology	4
VII	DSC	Immunology and Toxicology	4
VII	DSC	Clinical Biochemistry Practical	2
VII	DSC	Immunochemical and Biochemical Techniques Practical	2
VIII	DSC	Geo Microbiology	4
VIII	DSC	Marine Microbiology	3
VIII	DSC	Nanotechnology	3
VIII	DSC	Medical Genetics	4
VIII	DSC	Pharmacogenetics	3
VIII	DSC	Stem Cell Biology	3
VIII	DSC	Biochemistry of Hormones	3
VIII	DSC	Plant Biochemistry	3
VIII	DSC	Pharmacology	3
VIII	RPD	Research Project	15