

Year-I		
Semester - I		
Course Code	Course Title	Credit Hours
BIOTECH-1101	Basic Biotechnology-I	2
BIOTECH-1101P	Basic Biotechnology-I	1
Semester - II		
BIOTECH-1201	Basic Biotechnology-II	2
BIOTECH-1201P	Basic Biotechnology-II	1
Year-II		
Semester - III		
BIOTECH-2101	Biochemistry-I	2
BIOTECH-2101P	Biochemistry-I	1
Semester - IV		
BIOTECH-2201	Biochemistry-II	2
BIOTECH-2201P	Biochemistry-II	1
BIOTECH-2202	Cell Biology	2
BIOTECH-2202P	Cell Biology	1
Year-III		
Semester - V		
BIOTECH-3101	Metabolism-I	2
BIOTECH-3101P	Metabolism-I	1
BIOTECH-3102	Bioremediation	2
BIOTECH-3102P	Bioremediation	1
BIOTECH-3103	Fermentation Technology	3
BIOTECH-3103P	Fermentation Technology	1
BIOTECH-3104	Molecular Biology	3
BIOTECH-3104P	Molecular Biology	1
BIOTECH-3105	Microbial Genetics	2
BIOTECH-3105P	Microbial Genetics	1
Semester - VI		
BIOTECH-3201	Metabolism-II	2
BIOTECH-3201P	Metabolism-II	1
BIOTECH-3202	Immunology	2
BIOTECH-3202P	Immunology	1
BIOTECH-3203	Enzymology	3
BIOTECH-3203P	Enzymology	1
BIOTECH-3204	Recombinant DNA Technology	3
BIOTECH-3204P	Recombinant DNA Technology	1
BIOTECH-3205	Techniques in Biotechnology	2

BIOTECH-3205P	Techniques in Biotechnology	1
Year-IV		
Semester - VII		
BIOTECH-4101	Food Microbiology	3
BIOTECH-4101P	Food Microbiology	1
BIOTECH-4102	Bioinformatics-I	3
BIOTECH-4102P	Bioinformatics-I	1
	Elective-I	2
	Elective-I	1
	Elective-II	2
	Elective-II	1
BIOTECH-4299	Project/Internship	3
Semester - VIII		
BIOTECH-4201	Bioinformatics – II	3
BIOTECH-4201P	Bioinformatics – II	1
BIOTECH-4202	Skills and Research Methodology	2
BIOTECH-4202P	Skills and Research Methodology	1
	Elective-III	2
	Elective-III	1
	Elective-IV	2
	Elective-IV	1
BIOTECH-4299	Project/Internship	3

Elective Courses		
Semester - VII		
Course Code	Course Title	Credit Hours
BIOTECH-4103	Biofuel and Bioenergy	2
BIOTECH-4103P	Biofuel and Bioenergy	1
BIOTECH-4104	Drug design and Drug delivery	2
BIOTECH-4104P	Drug design and Drug delivery	1
BIOTECH-4105	Radiobiology	2
BIOTECH-4105P	Radiobiology	1
BIOTECH-4106	Nanobiotechnology	2
BIOTECH-4106P	Nanobiotechnology	1
BIOTECH-4107	Genetic Resources and Conservation	3
BIOTECH-4108	Marine Biotechnology	3
BIOTECH-4109	Engineering Biosafety and Bioethics	3
BIOTECH-4110	Bioelectronics and Biosensor	3
BIOTECH-4111	Molecular Diagnostics	3

Elective Courses		
Semester - VIII		
Course Code	Course Title	Credit Hours
BIOTECH-4203	Animal Tissue Culture	2
BIOTECH-4203P	Animal Tissue Culture	1
BIOTECH-4204	Plant Tissue Culture	2
BIOTECH-4204P	Plant Tissue Culture	1
BIOTECH-4205	Biostatistics	2
BIOTECH-4205P	Biostatistics	1
BIOTECH-4206	Protein Purification	2
BIOTECH-4206P	Protein Purification	1
BIOTECH-4207P	Medical Biotechnology	1
BIOTECH-4108	Marine Biotechnology	3
BIOTECH-4208	Principles of Biochemical Engineering	2
BIOTECH-4208P	Principles of Biochemical Engineering	1
BIOTECH-4209P	Environmental Biotechnology	1
BIOTECH-4210	Fungal Biotechnology	2
BIOTECH-4210P	Fungal Biotechnology	1
BIOTECH-4211	Economics and Business Applications	2
BIOTECH-4211P	Economics and Business Applications	1
BIOTECH-4212	Forensic Sciences	2
BIOTECH-4212P	Forensic Sciences	1

Allied Courses (Biotechnology)		
Year -I (Semester – I)		
Course Code	Course Title	Credit Hours
BIOTECH-1101	Basic Biotechnology-I	2
BIOTECH-1101P	Basic Biotechnology-I	1
(Semester – II)		
BIOTECH-1201	Basic Biotechnology-II	2
BIOTECH-1201P	Basic Biotechnology-II	1
Year -II (Semester – III)		
BIOTECH-2101	Biochemistry-I	2
BIOTECH-2101P	Biochemistry-I	1
(Semester – IV)		
BIOTECH-2201	Biochemistry-II	2
BIOTECH-2201P	Biochemistry-II	1