

M. Tech (Biotechnology) 4 Semester Program

Semester 1

	S.No.	Course	L	T	P	Credits
THEORY						
C1	BT501	Recombinant DNA Technology	3	0	0	3
C2	BT503	Biophysical Chemistry	3	0	0	3
C3	BT505	Principles of Immunology	3	0	0	3
C4	BT507	Cell and Molecular biology	3	0	0	3
C5	MA415	Biostatistics	2	1	0	3
OE	-	Open Elective	2	0	0	2
PRACTICAL						
C6	BT511	Recombinant DNA technology lab	0	0	6	3
C7	BT513	Biophysical Chemistry lab	0	0	6	3
C8	BT515	Immunology lab	0	0	6	3
		General Proficiency	0	0	0	0
		Total	16	1	18	26

Open Elective Course:

1. BT517 Pharmaceutical Biotechnology
2. BT519 Molecular Toxicology
3. Courses offered from other schools

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Semester 2

	S.No.	Course	L	T	P	Credits
THEORY						
C9	BT502	Genomics and Proteomics	4	0	0	4
C10	BT506	Bioinformatics and Computational Biology	3	0	0	3
C11	BT508	Bioprocess Engineering and Technology	3	1	0	4
C12	BT510	Bioanalytical Techniques	3	1	0	4
GE	--	Generic Elective	3	0	0	3
PRACTICAL						
C13	BT512	Genomics and Proteomics lab	0	0	6	3
C14	BT514	Bioinformatics and Computational Biology lab	0	0	6	3
C15	BT516	Bioprocess Engineering Technology lab	0	0	6	3
		General Proficiency	0	0	0	0
		Total	16	2	18	27

Generic Elective (GE):

1. BT504 Regulation, Ethics and patenting in Biotechnology
2. FP410 Food Legislation & Standards
3. ES504 Environmental Economics, Policies, Conservation & Legislations
4. BT520 Molecular Medicine

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Semester 3

S.No.	Course	L	T	P	Credits
DSE1-4 (Select any Four papers)					
BT601	Advanced Animal Biotechnology	3	0	0	3
BT603	Advanced Plant Biotechnology	3	0	0	3
BT605	Molecular Microbial Biotechnology	3	0	0	3
BT607	Protein/Enzyme Engineering	3	0	0	3
BT609	Molecular modeling and Drug design	3	0	0	3
BT611	Systems Biology and computational genomics	3	0	0	3
BT613	Industrial Environmental Biotechnology	3	0	0	3
DSE5-7 LABS (select any Three lab)					
BT615	Animal Biotech lab	0	0	6	3
BT617	Plant Biotech lab	0	0	6	3
BT619	Bioinformatics lab	0	0	6	3
BT621	Molecular Microbial Biotech. lab	0	0	6	3
BT623	Industrial Environmental Biotech lab	0	0	6	3
PROJECTS					
BT627	Dissertation-I	0	0	0	5
	General Proficiency	0	0	0	0
Total credits		12	0	18	26

Semester 4

S.No.	Course	L	T	P	Credits
MAJOR PROJECT					
BT602	Dissertation-II	0	0	0	25
	General Proficiency	0	0	0	0
	Total				25

Total Credits= 104

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