

School of Biotechnology

M. Tech. (Biotechnology) Program

[4 Semesters]

Semester 1

Code	Course	L	T	P	Credits
THEORY					
BT501	Recombinant DNA technology	3	1	0	4
BT515	Bioinformatics & Computational Biology	3	0	0	3
BT517	Immunotechnology	3	0	0	3
BT505	Nanobiotechnology	3	0	0	3
MA415	Biostatistics	3	0	0	3
--	Open Electives	2	0	0	2
PRACTICAL					
BT511	Recombinant DNA technology lab	0	0	3	2
BT529	Bioinformatics & Computational lab	0	0	3	2
BT531	Immunotechnology Lab.	0	0	3	2
Total		17	1	9	24

Open Electives (OE):

For Biotech students:

1. BT519 Pharmacogenomics
2. BT509 Molecular Toxicology
3. Other courses offered by other schools

For other schools:

1. BT523 Basics in Bioinformatics
2. BT525 Principles of Genetics
3. BT527 Environmental Pollution

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Semester 2

Code	Course	L	T	P	Credits
THEORY					
BT502	Genomics and Proteomics	4	0	0	4
BT520	System and Synthetic biology	3	0	0	3
BT506	Bioprocess Engineering & Technology	3	1	0	4
BT522	Regenerative Medicine	3	0	0	3
--	Generic elective	3	0	0	3
PRACTICAL					
BT514	Genomics and Proteomics lab	0	0	3	2
BT524	System and Synthetic biology lab	0	0	3	2
BT518	Bioprocess Engineering & Technology lab	0	0	3	2
	Total	16	1	9	23

Generic Elective (GE):

1. BT510 Regulation, Ethics and patenting in Biotechnology
2. BT512 Molecular Medicine
3. FP410 Food Legislation & Standards
4. ES504 Environmental Economics, Policies, Conservation & Legislations

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Semester 3

Code	Course	L	T	P	Credits
BT601	Research Methodology & Data Validation	3	0	0	3
(Select any <i>three</i> papers)					
BT603	Advanced Animal Biotechnology	3	0	0	3
BT605	Advanced Plant Biotechnology	3	0	0	3
BT607	Advanced Microbial Biotechnology	3	0	0	3
BT609	Industrial Environmental Biotechnology	3	0	0	3
LABS (select any <i>Three</i> labs corresponding to the Theory course)					
BT611	Animal Biotechnology lab	0	0	3	2
BT613	Plant Biotechnology lab	0	0	3	2
BT615	Microbial Biotechnology lab	0	0	3	2
BT617	Environmental Biotechnology lab	0	0	3	2
PROJECTS					
BT619	Dissertation I	0	0	0	5
Total credits		12	0	9	23

Semester 4

Code	Course	L	T	P	Credits
BT602	Dissertation II	0	0	0	25
	Total				25

Total credits= 92