

# School of Biotechnology

## M. Tech. (Biotechnology) Program

### [4 Semesters]

#### Semester 1

Code	Course	L	T	P	Credits
<b>THEORY</b>					
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
<b>PRACTICAL</b>					
BT511	Recombinant DNA technology lab	0	0	3	2
BT529	Bioinformatics & Computational lab	0	0	3	2
BT531	Immunotechnology Lab.	0	0	3	2
<b>Total</b>		<b>17</b>	<b>1</b>	<b>9</b>	<b>24</b>

#### 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
<b>THEORY</b>					
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
<b>PRACTICAL</b>					
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
	<b>Total</b>	<b>16</b>	<b>1</b>	<b>9</b>	<b>23</b>

#### 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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Code	Course	L	T	P	Credits
BT601	Research Methodology & Data Validation	3	0	0	3
<b>(Select any three papers)</b>					
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
<b>LABS (select any Three labs corresponding to the Theory course)</b>					
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
<b>PROJECTS</b>					
BT619	Dissertation I	0	0	0	5
<b>Total credits</b>		<b>12</b>	<b>0</b>	<b>9</b>	<b>23</b>

**Semester 3**

**Semester 4**

**School of Biotechnology**  
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**[4 Semesters]**

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Code	Course	L	T	P	Credits
BT602	Dissertation II	0	0	0	25
	<b>Total</b>				<b>25</b>

**Total credits= 92**