

School of Biotechnology

M. Sc. (Biotechnology) Program

[4 Semesters]

Semester 1

Code	Course	L	T	P	Credits
THEORY					
BtMSc 401	Cell & Molecular Biology	3	0	0	3
BtMSc 403	Microbiology	3	0	0	3
BtMSc 405	Cytogenetics and Plant Breeding	3	0	0	3
BtMSc 407	Biochemistry	3	0	0	3
MA415	Biostatistics	2	1	0	3
--	Open elective	2	0	0	2
PRACTICAL					
BtMSc 413	Cell Biology & Biochemistry Lab	0	0	3	2
BtMSc 415	Microbiology	0	0	3	2
BtMSc 417	Molecular Biology Lab	0	0	3	2
Total		16	1	9	23

Open Electives (OE):

For Biotech students:

1. BtMSc 409 Industrial Microbiology
2. BtMSc 411 Toxicology
3. Other courses offered by other schools

For other schools:

1. BtMSc 419 Introductory Bioinformatics
2. BtMSc 421 Principles of Genetics
3. BtMSc 423 Environmental Pollution

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Semester 2

Code	Course	L	T	P	Credits
THEORY					
BtMSc 402	Cell Physiology	3	0	0	3
BtMSc 404	Fermentation and Downstream Processing	3	0	0	3
BtMSc 406	Immunology	3	0	0	3
BtMSc 408	Basics of Nanotechnology	3	0	0	3
BtMSc 410	Analytical Techniques	3	0	0	3
--	Generic elective	2	0	0	2
PRACTICAL					
BtMSc 414	Fermentation and Downstream Processing Lab	0	0	3	2
BtMSc 416	Immunology Lab	0	0	3	2
BtMSc 418	Analytical Techniques Lab	0	0	3	2
Total		17	0	9	23

Generic Elective (GE):

1. BtMSc 412 Industrial Biotechnology
2. FP410 Food Quality & Standards

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Semester 3

Code	Course	L	T	P	Credits
Discipline-specific Electives (DSEs) DSE 1- DSE 4 (Select any three papers)					
BtMSc 551	Animal Biotechnology	3	0	0	3
BtMSc 553	Plant Biotechnology	3	0	0	3
BtMSc 555	Microbial Biotechnology	3	0	0	3
BtMSc 557	Computational Biology	3	0	0	3
BtMSc 559	Environmental Biotechnology	3	0	0	3
DSE 5 - DSE 7 LABS (select any three labs, according to the corresponding theory subjects)					
BtMSc 561	Animal Biotech lab	0	0	3	2
BtMSc 563	Plant Biotech lab	0	0	3	2
BtMSc 565	Microbial Biotech. lab	0	0	3	2
BtMSc 567	Computational Biology lab	0	0	3	2
BtMSc 569	Environmental Biotech lab	0	0	3	2
PROJECTS					
BtMSc 571	Project I	0	0	0	5
Total credits		9	0	9	20

Semester 4

Code	Course	L	T	P	Credits
MAJOR PROJECT					
BtMSc 552	Project II	0	0	0	25

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	Total				25
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