

School of Biotechnology
M.Sc. (Biotechnology) Programme
[4 Semesters]

S.No.	Code	Course Title	Credits
SEMESTER 1			
1	BtMSc 501	Biochemistry	3
2	BtMSc 503	Cell and Molecular Biology	3
3	BtMSc 505	Plant and Animal Biotechnology	3
4	BtMSc 507	Microbiology	2
5	BtMSc 509	Genetics	2
6	MA415	Biostatistics	3
7	BtMSc 511	Basics of Chemistry and Physics	2
8	BtMSc 513	Laboratory I: Biochemistry and Analytical Techniques	4
9	BtMSc 515	Laboratory II: Microbiology	2
10	BtMSc 517	Laboratory III: Plant and Animal Biotechnology	2
11	--	General Proficiency	0
TOTAL			26
SEMESTER 2			
1	BtMSc 502	Genetic Engineering	3
2	BtMSc 504	Immunology	3
3	BtMSc 506	Bioinformatics	3
4	BtMSc 508	Genomics and Proteomics	2
5	BtMSc 510	Molecular Diagnostics	2
6	BtMSc 512	Research Methodology and Scientific Communication Skills	2
7	--	Discipline Specific Elective (<u>Choose any One</u>) BtMSc 514 Biological Imaging BtMSc 516 Computational Biology BtMSc 518 Drug Discovery and Development BtMSc 520 Environmental Biotechnology BtMSc 522 Microbial Technology BtMSc 524 Nanobiotechnology BtMSc 526 Protein Engineering BtMSc 528 Vaccines	2
8	BtMSc 530	Seminar	1
9	BtMSc 532	Laboratory I: Molecular Biology & Genetic Engineering	4
10	BtMSc 534	Laboratory II: Immunology	3
11	--	General Proficiency	0
TOTAL			25
SEMESTER 3			
1	BtMSc 601	Bioprocess Engineering and Technology	3
2	BtMSc 603	Emerging Technologies	2
3	BtMSc 605	Critical Analysis of Classical Papers	2
4	BtMSc 607	Bioentrepreneurship	2
5	BtMSc 609	Intellectual Property Rights, Biosafety and Bioethics	2
6	BtMSc 611	Project Proposal Preparation and Presentation	2
7	BtMSc 613	Seminar	1
8	BtMSc 615	Laboratory I: Bioprocess Engineering and Technology	4
9	BtMSc 617	Laboratory II: Bioinformatics	2
10	BtMSc 619	Dissertation I	4
11	--	General Proficiency	0

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			TOTAL	24
SEMESTER 4				
1	BtMSc 602	Dissertation II		22
2	--	General Proficiency		0
			TOTAL	22

Total Credits = 94