School of Biotechnology

M.Sc. (Biotechnology) Programme
[4 Semesters] (Batch: 2019-2021)

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	BtMSc 514	Discipline Specific Elective (<u>Choose any</u> **One**)	
		1. Biological Imaging | 2. Computational Biology | 3. Drug Discovery and Development | 4. Environmental Biotechnology | 5. Microbial Technology | 6. Nanobiotechnology | 7. Protein Engineering | 8. Vaccines	2
8	BtMSc 516	Seminar	1
9	BtMSc 518	Laboratory I: Molecular Biology & Genetic Engineering	4
10	BtMSc 520	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	Bioenterpreneurship	2
5	BtMSc 609	Intellectual Property Rights, Biosafty 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 615	Laboratory II: Bioinformatics	2
10	BtMSc 617	Dissertation I	4
11	--	General Proficiency	0
		TOTAL	**24**

School of Biotechnology
M.Sc. (Biotechnology) Programme
[4 Semesters] (Batch: 2019-2021)

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

Total Credits = 94