

School of Biotechnology
Course Structure: M.Sc. (Molecular Medicine)

Semester 1			Semester 2		
Code	Course	Credits	Code	Course	Credits
BTMSc 501	Biochemistry	3	BTMSc 502	Genetic Engineering	3
BTMSc 507	Microbiology	2	BTMSc 504	Immunology	3
BTMSc509	Genetics	2	BTMSc 506	Bioinformatics	3
BTMSc 503	Cell and Molecular Biology	3	BTMSc 508	Genomics and Proteomics	2
BTMSc 521	Concepts and Prospects in Molecular Medicine	2	BTMSc 512	Research Methodology and Scientific Communication Skills	2
MA415	Biostatistics	3	Discipline Specific Elective (Choose any One)	BtMSc 516 Computational Biology BtMSc 526 Protein Engineering BtMSc 524 Nanobiotechnology BtMSc 520 Environmental Biotechnology	2
BTMSc 525	Data Base and Computer Programming	2	BTMSc 540	Human physiology	3
BTMSc 541	Data Base and Computer Programming Lab	2	BTMSc 532	Molecular Biology and Genetic Engineering Lab	2
BTMSc 513	Biochemistry and Analytical Techniques	2	BTMSc 534	Immunology Lab	2
BTMSc 515	Microbiology Lab	2			
	Total credits	23		Total credits	22
Semester 3			Semester 4		
Code	Course	Credits	Code	Course	Credits
BTMSc 633	Host-Microbes Interaction	3	BTMSc602	Dissertation II	22
BTMSc 635	Molecular Basis of Human Diseases	3			
BTMSc 637	Animal Biotechnology	2			
BTMSc 639	Stem Cell Biology and Regenerative Medicine	3			
BTMSc 609	IPR, Biosafety and Bioethics	2			
BTMSc 641	Molecular Toxicology, Therapeutics and Diagnostic	3			
BTMSc 617	Bioinformatics Lab	2			

BTMSc 651	Animal Biotechnology Lab	2			
BTMSc 653	Molecular Diagnostic & Pathology lab	2			
BTMSc 619	Dissertation I	4			
	Total credits	26	Total credits of the programme		95