



# MSc Biotechnology Curriculum

## Semester - I

Sr. No.	Course Name	Credits
1	Biochemistry	3
2	Cell and Molecular Biology	3
3	Plant and Animal Biotechnology	3
4	Microbiology	2
5	Genetics	2
6	Basic of Mathematics and Statistics	2
7	Basics of Chemistry and Physics	2
8	Laboratory I : Biochemistry and Analytical Techniques	4
9	Laboratory II : Microbiology	2
10	Laboratory III : Plant and Animal Biotechnology	2
	<b>TOTAL</b>	<b>24</b>

## Semester - II

Sr. No.	Course Name	Credits
1	Genetics Engineering	3
2	Immunology	3
3	Bioinformatics	3
4	Genomics and Proteomics	2
5	Molecular Diagnostics	2
6	Research Methodology and Scientific Communication Skills	2
7	Elective 1	2
8	Seminar	1
9	Laboratory IV : Molecular Biology and Genetic Engineering	4
10	Laboratory V : Immunology	3
	<b>TOTAL</b>	<b>24</b>

Semester - III		
Sr. No.	Course Name	Credits
1	Bioprocess Engineering and Technology	3
2	Emerging Technologies	2
3	Critical Analysis of Classical Papers	2
4	Bioentrepreneurship	2
5	Intellectual Property Rights, Biosafety and Bioethics	2
6	Project Proposal Preparation and Presentation	2
7	Seminar	1
8	Laboratory VI : Bioprocess Engineering and Technology	4
9	Laboratory VII : Bioinformatics	2
10	Dessertation	4
	<b>TOTAL</b>	<b>24</b>

Semester - IV		
Sr. No.	Course Name	Credits
1	Dissertation	20
2	Elective II	2
	TOTAL	22
	<b>TOTAL CREDITS</b>	<b>94</b>