



MSc Microbiology Curriculum

Semester - I

Sr. No.	Course Name	Credits
1.	Cell Biology and Biochemistry	3
2.	Genetics	3
3.	Microbial Ecology and Diversity	3
4.	Bioinformatics	3
5.	Biophysics and biostatistics	3
6.	Plant and Animal Biotechnology	3
7.	Microbiology Lab I	2
8.	Microbiology Lab II	2
	Total Credits	22

Semester - II

Sr. No.	Course Name	Credits
1.	Research Methodology	3
2.	Molecular Biology	3
3.	Microbial Physiology and genetics	3
4.	Genetic Engineering	3
5.	Elective : Agricultural Microbiology/Medical Microbiology	3
6.	Bio entrepreneurship	2
7.	Enzymology and enzyme technology	2
8.	Seminar	1
9.	Microbiology Lab III	3
10.	Microbiology Lab IV	2
	Total Credits	25

Semester - III		
Sr. No.	Course Name	Credits
1.	R-DNA technology	3
2.	Bioprocess technology	3
3.	Microbial Physiology	3
4.	IPR, Biosafety, Ethics and its management	2
5.	Cell and tissue culture technology	3
6.	Proposal Seminar	1
7.	Elective: Agricultural Microbiology/Medical Microbiology	3
8.	Microbiology Lab V	3
9.	Microbiology Lab VI	3
	Total Credits	24

Semester - IV		
Sr. No.	Course Name	Credits
1	Disseration	25
	Total Credits	25