

Semester – I								
Sr. No.	Course Code	Course Title	L	T	P	C	Marks	
Core Course								
1	MSBO101	Biochemistry	3	0	0	3	100	
2	MSBO102	Cell & Molecular Biology	3	0	0	3	100	
3	MSBO103	Plant & Animal Biotechnology	3	0	0	3	100	
4	MSBO104	Microbiology	3	0	0	3	100	
5	MSBO105	Genetics	3	0	0	3	100	
6	MSBO106	Basics of Mathematics & Statistics	2	0	1	3	100	
7	MSBO107	Basics of Chemistry & Physics	2	0	0	2	50	
8	MSBO101	Lab 1 – Biochemistry & Analytical Technology	0	0	2	2	50	
9	MSIM104	Lab 2 – Microbiology	0	0	2	2	50	
10	MSIM103	Lab 3 – Plant & Animal Biotech	0	0	2	2	50	
11	MSIM108	Internship	0	0	2	2	50	
Total							28	850

Semester – II								
Sr. No.	Course Code	Course Title	L	T	P	C	Marks	
A. Core Course								
1	MSBO201	Genetic Engineering	3	0	0	3	100	
2	MSBO202	Immunology	3	0	0	3	100	
3	MSBO203	Bioinformatics	3	0	0	3	100	
4	MSBO204	Genomics & Proteomics	3	0	0	3	100	
5	MSBO205	Molecular Diagnostics	3	0	0	3	100	
6	MSBO206	Research Methodology and Scientific Communication Skills	3	0	0	3	100	
7	MSBO208	Seminar – Critical Analysis of Classical Papers I	1	0	0	1	50	
8	MSBO209	Lab 4 – Molecular Bio. & Genetic Eng.	0	0	2	2	50	
9	MSBO210	Lab 5 – Immunology	0	0	2	2	50	
10	MSBO211	Internship	0	0	2	2	50	
B. Elective Course								
12	MSBO207	Elective (Microbial Technology, Vaccine, Drug Discovery and Development, Nano Biotechnology, Environmental Biotechnology)	2	0	0	2	50	
Total							27	850

Semester – III								
Sr. No.	Course Code	Course Title	L	T	P	C	Marks	
A. Ability Enhancement Compulsory Course								
1	MSBO301	Bioprocess Engineering & Technology	3	0	0	3	100	
2	MSBO302	Emerging Technologies	3	0	0	3	100	
3	MSBO303	Computational Biology	3	0	0	3	100	
4	MSBO304	Bio- Entrepreneurship	3	0	0	3	100	
5	MSBO305	IPR, Biosafety & Bioethics	3	0	0	3	100	
6	MSBO306	Project Proposal Preparation	3	0	0	3	100	
7	MSBO307	Seminar – Critical Analysis of Classical Papers-II	1	0	0	1	50	
8	MSBO309	Lab 6 – Medical Microbiology	0	0	2	2	50	
9	MSBO310	Lab 7 – Industrial & Food Microbiology	0	0	2	2	50	
10	MSBO311	Internship	0	0	2	2	50	
D. Elective Course								
12	MSBO308	Elective (Microbial Technology, Vaccine, Drug Discovery and Development, Nano Biotechnology, Environmental Biotechnology [Except the one opted in Semester II])	2	0	0	2	50	
Total							27	850

Semester – IV								
Sr. No.	Course Code	Course Title	L	T	P	C	Marks	
Core Course								
1	MSIM401	Dissertation	0	10	10	20	500	
		Viva-Voce	0	2	0	2	100	
Total							22	600