



BRAINWARE UNIVERSITY
SCHOOL OF BIOTECHNOLOGY AND BIOSCIENCES
DEPARTMENT OF BIOTECHNOLOGY
MASTERS OF SCIENCE IN MICROBIOLOGY-2022

Semester-I

Course Code	Course Name	L-T-P	Credit(s)	Total Marks
MMBC101	General Microbiology	3-0-0	3	100
MMBC191	General Microbiology Lab	0-0-4	2	100
MMBC102	Microbial Biochemistry	3-0-0	3	100
MMBC192	Microbial Biochemistry Lab	0-0-4	2	100
MMBC103	Microbial Fermentation	3-0-0	3	100
MMBC104	Research Methodology	3-0-0	3	100
	Total	20	16	600

Semester II

Course Code	Course Name	L-T-P	Credit(s)	Total Marks
Core				
MMBC201	Molecular Biology	3-0-0	3	100
MMBC291	Molecular Biology Lab	0-0-4	2	100
MMBC202	Immunology	3-0-0	3	100
MMBC292	Immunology Lab	0-0-4	2	100
MMBC203	Virology	3-0-0	3	100
Elective course*				
MMBE204	Pharmaceutical Microbiology	2-0-0	2	100
MMBE205	Entrepreneurship in Microbiology	2-0-0	2	100
MMBE206	Food Microbiology	2-0-0	2	100
	Total	21	17	700

*Students have to take at least 4 credit from the offered 6 credit Elective courses.



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Semester -III

Course Code	Course Name	L-T-P	Credit	Total Marks
Core				
MMBC301	Medical Bacteriology	3-0-0	3	100
MMBC391	Medical Bacteriology Lab	0-0-4	2	100
MMBC302	Industrial Microbiology	3-0-0	3	100
MMBC392	Industrial Microbiology Lab	0-0-4	2	100
MMBC303	Plant-microbe interactions	3-0-0	3	100
Electives course*				
MMBE304	Microbial Biotechnology	2-0-0	2	100
MMBE305	Environmental Microbiology	2-0-0	2	100
MMBE306	IPR & Biosafety	2-0-0	2	100
	Total	21	17	700

*Students have to take at least 4 credit from the offered 6 credit Elective courses.

Semester-IV

Course Code	Course Name	L-T-P	Credit	Total Marks
MMBP481	Industrial/Internship Training	-	20	100
MMBP482	MSCMB Project Work & Viva	-	20	100
	Total	-	40	200

Total Marks: 2200

Total Credits: 90