



BRAINWARE UNIVERSITY
SCHOOL OF BIOTECHNOLOGY & BIOSCIENCES
DEPARTMENT OF BIOTECHNOLOGY
MASTER OF SCIENCE IN MICROBIOLOGY – 2025
(As per UGC NEP 2020)

Semester-I

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MMB10400	Research Methodology and Ethics	3	0	0	40	60	100	3	400
2	MMB10401	Immunology	3	0	0	40	60	100	3	400
3	MMB10402	Advances in Microbiology	4	0	0	40	60	100	4	400
4	MMB10403	Biochemical Foundations of Life	4	0	0	40	60	100	4	400
5	MMB19500	Biochemical Foundations of Life Lab	0	0	3	40	60	100	1.5	500
6	MMB19501	Diagnostic Microbiology	0	0	3	40	60	100	1.5	500
7	MMB19502	Immunology Lab	0	0	3	40	60	100	1.5	500
8	MMB19503	Advances in Microbiology Lab	0	0	3	40	60	100	1.5	500
TOTAL			14	0	12	320	480	800	20	

Semester-II

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MMB20404	Medical Bacteriology	3	0	0	40	60	100	3	400
2	MMB20405	Microbial Genetics and Biostatistics	4	0	0	40	60	100	4	400
3	MMB20406	Electives 1	3	0	0	40	60	100	3	400
		A. Virology								
		B. MOOC*								
4	MMB27504	Electives 2	2	0	2	40	60	100	3	500
		A. Genetic Engineering								
		B. Bioinformatics and Metagenomics								
5	MMB27505	Environmental Microbiology	3	0	2	40	60	100	4	500
6	MMB27506	Industrial Fermentation	2	0	2	40	60	100	3	500
TOTAL			17	0	6	240	360	600	20	

*MOOC/Equivalent MOOC approved by BoS Chair (Evaluation scheme as per Blended Learning and MOOCs Policy)



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Semester-III

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MMB38507	Project	0	0	0	40	60	100	20	500
TOTAL			0	0	0	40	60	100	20	

Semester-IV

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MMB48508	Dissertation	0	0	0	40	60	100	20	500
TOTAL			0	0	0	40	60	100	20	