



BRAINWARE UNIVERSITY
SCHOOL OF BIOTECHNOLOGY & BIOSCIENCES
DEPARTMENT OF BIOTECHNOLOGY
MASTERS OF SCIENCE IN BIOTECHNOLOGY-2023

Semester-I

Course Code	Course Name	L-T-P	Credit(s)	Total Marks
MBTC101	Biochemistry	3-0-0	3	100
MBTC191	Biochemistry Lab	0-0-4	2	100
MBTC102	Microbial Biology	3-0-0	3	100
MBTC192	Microbial Biology Lab	0-0-4	2	100
MBTC103	Cell biology	3-0-0	3	100
MBTC104	Optical Instrumentation	3-0-0	3	100
	Total	20	16	600



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Semester-II

Course Code	Course Name	L-T-P	Credit(s)	Total Marks
Core				
MBTC201	Immunology	3-0-0	3	100
MBTC291	Immunology Lab	0-0-4	2	100
MBTC202	Molecular Biology	3-0-0	3	100
MBTC292	Molecular Biology Lab	0-0-4	2	100
MBTC203	Genetic Engineering	3-0-0	3	100
Elective course*				
MBTE204	Genetics	2-0-0	2	100
MBTE205	Genomics and Proteomics	2-0-0	2	100
MBTE206	Bioentrepreneurship	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(s)	Total Marks
Core				
MBTC301	Plant Biotechnology	3-0-0	3	100
MBTC391	Plant Biotechnology Lab	0-0-4	2	100
MBTC302	Bioprocessing and FermentationTechnology	3-0-0	3	100
MBTC392	Bioprocessing and FermentationTechnology Lab	0-0-4	2	100
MBTC303	IPR and Biosafety	3-0-0	3	100
Elective course*				
MBTE304	Environmental Biotechnology	2-0-0	2	100
MBTE305	Animal Biotechnology	2-0-0	2	100
MBTE306	Enzymology	2-0-0	2	100
	Total	21	17	700

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Semester-IV

Course Code	Course Name	L-T-P	Credit(s)	Total Marks
MBTP481	Internship/ Industrial Training	-	20	100
MBTP482	MSCBT Project Work & Viva	-	20	100
	Total	-	40	200

Total Marks: 2200

Total Credits: 90