



BRAINWARE UNIVERSITY
School of Biotechnology & Biosciences
Department of Biotechnology
Masters of Science in Biotechnology - 2024

Semester-I

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total Marks	Credits
						CIA	TEE		
1	MBT10101	Biomolecules and Biochemistry	4	0	0	40	60	100	4
2	MBT19102	Biomolecules and Biochemistry Lab	0	0	4	40	60	100	2
3	MBT10103	Microbial Biology	3	0	0	40	60	100	3
4	MBT19104	Microbial Biology Lab	0	0	4	40	60	100	2
5	MBT10105	Cell Biology	3	0	0	40	60	100	3
6	MBT19106	Cell Biology Lab	0	0	4	40	60	100	2
Elective course (Select any one)									
7	MBT10201	Optical Instrumentation	3	1	0	40	60	100	4
8	MBT10202	MOOCs	4	0	0	40	60	100	4
9	MBT10203	IPR and Biosafety	3	1	0	40	60	100	4
TOTAL			13/14	0/1	12	280	420	700	20

Semester-II

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total Marks	Credits
						CIA	TEE		
1	MBT20107	Molecular Biology	4	0	0	40	60	100	4
2	MBT29108	Molecular Biology Lab	0	0	4	40	60	100	2
3	MBT20109	Advances in Plant Biotechnology	4	0	0	40	60	100	4
4	MBT29110	Advances in Plant Biotechnology Lab	0	0	4	40	60	100	2
Elective course (Select any two)									
5	MBT20204	Genetics and Biostatistics	3	1	0	40	60	100	4
6	MBT20205	Genomics and Proteomics	3	1	0	40	60	100	4
7	MBT20206	Research Designing	3	1	0	40	60	100	4
TOTAL			14	2	8	240	360	600	20



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Semester-III

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total Marks	Credits
						CIA	TEE		
1	MBT30111	Immunobiology	3	0	0	40	60	100	3
2	MBT39112	Immunobiology Lab	0	0	4	40	60	100	2
3	MBT30113	Animal Biotechnology	3	0	0	40	60	100	3
4	MBT39114	Animal Biotechnology Lab	0	0	4	40	60	100	2
Elective course (Select any three)									
5	MBT30207	Biodiversity and Ecology	3	1	0	40	60	100	4
6	MBT30208	Bioprocessing and Fermentation Technology	3	1	0	40	60	100	4
7	MBT30209	Developmental Biology	3	1	0	40	60	100	4
8	MBT30210	Bioinformatics	3	1	0	40	60	100	4
TOTAL			15	3	8	280	420	700	22

Semester-IV

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total Marks	Credits
						CIA	TEE		
1	MBT40115	Genetic Engineering	4	0	0	40	60	100	4
2	MBT49116	Genetic Engineering Lab	0	0	4	40	60	100	2
3	MBT48101	Major Project	-	-	-	40	60	100	12
Elective course (Select any one)									
5	MBT40211	Bioentrepreneurship	3	1	0	40	60	100	4
6	MBT40212	Environmental Biotechnology	3	1	0	40	60	100	4
TOTAL			7	1	4	160	240	400	22