



**BRAINWARE UNIVERSITY**  
**SCHOOL OF BIOTECHNOLOGY & BIOSCIENCES**  
**DEPARTMENT OF BIOTECHNOLOGY**  
**MASTER OF SCIENCE IN BIOTECHNOLOGY – 2026**  
**(As per UGC NEP 2020)**

**Semester-I**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MBT10400	Research Methodology and Ethics	3	0	0	40	60	100	3	400
2	MBT10401	Advances in Plant Biotechnology	3	0	0	40	60	100	3	400
3	MBT10402	Advances in Genetic Engineering	4	0	0	40	60	100	4	400
4	MBT10403	Biomolecules and Biochemistry	4	0	0	40	60	100	4	400
5	MBT19500	Advances in Plant Biotechnology Lab	0	0	3	40	60	100	1.5	500
6	MBT19501	Biomolecules and Biochemistry Lab	0	0	3	40	60	100	1.5	500
7	MBT19502	Advances in Genetic Engineering Lab	0	0	3	40	60	100	1.5	500
8	MBT19503	Bioinformatics Tools and Techniques	0	0	3	40	60	100	1.5	500
<b>TOTAL</b>			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	MBT20404	Environmental Biotechnology	3	0	0	40	60	100	3	400
2	MBT20405	Stem Cell Biology	4	0	0	40	60	100	4	400
3		<b>Electives 1</b>	3	0	0	40	60	100	3	400
	MBT20406	A. Drug Design								
	MBT20406	B. MOOC*								
4		<b>Electives 2</b>	2	0	2	40	60	100	3	500
	MBT27504	A. Genomics and Proteomics								
	MBT27504	B. Bioprocessing and Fermentation Technology								
5	MBT27505	Immunobiology	3	0	2	40	60	100	4	500
6	MBT27506	Advances in Animal Biotechnology	2	0	2	40	60	100	3	500
<b>TOTAL</b>			17	0	6	240	360	600	20	
7	PGPC0001	Professional Communication, Collaboration, and Career Skills	0	0	0	100	0	100	0	GPC

\*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	MBT38507	Project	0	0	0	40	60	100	20	500
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>	

**Semester-IV**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MBT48508	Dissertation	0	0	0	40	60	100	20	500
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>	