



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

**Semester-I**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P</b>	<b>Credit(s)</b>	<b>Total Marks</b>
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
	<b>Total</b>	<b>20</b>	<b>16</b>	<b>600</b>



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**Semester-II**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P</b>	<b>Credit(s)</b>	<b>Total Marks</b>
<b>Core</b>				
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
<b>Elective course*</b>				
MBTE204	Genetics	2-0-0	2	100
MBTE205	Genomics and Proteomics	2-0-0	2	100
MBTE206	Bioentrepreneurship	2-0-0	2	100
	<b>Total</b>	<b>21</b>	<b>17</b>	<b>700</b>

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



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**Semester-III**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P</b>	<b>Credit(s)</b>	<b>Total Marks</b>
<b>Core</b>				
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
<b>Elective course*</b>				
MBTE304	Environmental Biotechnology	2-0-0	2	100
MBTE305	Animal Biotechnology	2-0-0	2	100
MBTE306	Enzymology	2-0-0	2	100
	<b>Total</b>	<b>21</b>	<b>17</b>	<b>700</b>

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**Semester-IV**

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

**Total Marks: 2200**

**Total Credits: 90**