



BRAINWARE UNIVERSITY
SCHOOL OF BIOTECHNOLOGY & BIOSCIENCES
DEPARTMENT OF BIOTECHNOLOGY
MASTER OF SCIENCE IN BIOINFORMATICS – 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	MBI10400	Research Methodology and Ethics	3	0	0	40	60	100	3	400
2	MBI10401	Biological Data Science	3	0	0	40	60	100	3	400
3	MBI10402	Biological Database Management System	4	0	0	40	60	100	4	400
4	MBI10403	Python Programming for Biologists	4	0	0	40	60	100	4	400
5	MBI19500	Biological Database Management System Lab	0	0	6	40	60	100	3	500
6	MBI19501	Python Programming for Biologists Lab	0	0	6	40	60	100	3	500
TOTAL			14	0	12	240	360	600	20	

SEMESTER II

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MBI20404	Biomathematics and Biostatistics	3	0	0	40	60	100	3	400
2	MBI20405	Cheminformatics and Drug Discovery	4	0	0	40	60	100	4	400
3	MBI20406	Electives 1	3	0	0	40	60	100	3	400
		A. Clinical Trials and Pharmacovigilance								
		B. MOOC*								
4	MBI27502	Electives 2	2	0	2	40	60	100	3	500
		A. R Programming								
		B. C Programming and Data Structure								
5	MBI27503	Computer-Aided Drug Design	2	0	2	40	60	100	3	500
6	MBI27504	Proteogenomics	3	0	2	40	60	100	4	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	MBI38505	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	MBI48506	Dissertation	0	0	0	40	60	100	20	500
TOTAL			0	0	0	40	60	100	20	