



**BRAINWARE UNIVERSITY**  
**SCHOOL OF ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING- CYBER SECURITY & DATA SCIENCE**  
**Master of Technology in Computer Science & Engineering- Data Science– 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	MTD10400	Research Methodology, IPR and Ethics	3	0	0	40	60	100	3	400
2	MTD10401	Computational Mathematics for Data Science	3	0	0	40	60	100	3	400
3	MTD10402	Advanced Algorithm	3	0	0	40	60	100	3	400
4	MTD10403	Big Data Analytics	3	0	0	40	60	100	3	400
5	MTD10404	Data Mining and Pattern Recognition	3	0	0	40	60	100	3	400
6	MTD10405	Scalable System for Data Science	3	0	0	40	60	100	3	400
7	MTD19500	Advanced Algorithm Lab	0	0	3	40	60	100	1.5	500
8	MTD19501	Big Data Analytics Lab	0	0	3	40	60	100	1.5	500
9	MAU00001	English for Research Paper Writing*	2*	0	0	0	0	0	0	AUC*
<b>TOTAL</b>			<b>18+2*</b>	<b>0</b>	<b>6</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>21</b>	

\*Audit course 1

**SEMESTER-II**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MTD20406	Artificial Intelligence for Data Science	3	0	0	40	60	100	3	400
2	MTD20407	Electives A. Nature-Inspired Algorithm B. Natural Language Processing C. MOOC*	3	0	0	40	60	100	3	400
3	MTD27502	Time Series Data Analysis	2	0	2	40	60	100	3	500
4	MTD27503	Machine Learning for Data Science	2	0	4	40	60	100	4	500
5	MTD27504	Social media and Web Analytics	2	0	2	40	60	100	3	500
6	MTD27505	Advanced Web Technology	2	0	2	40	60	100	3	500
7	MAU00002	Stress Management by Yoga**	2	0	0	0	0	0	0	AUC**
<b>TOTAL</b>			<b>14+2**</b>	<b>0</b>	<b>10</b>	<b>240</b>	<b>360</b>	<b>600</b>	<b>19</b>	
8	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)

\*\*Audit course 2

**SEMESTER-III**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MTD38506	Dissertation-I	0	0	0	40	60	100	20	500

**SEMESTER -IV**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MTD48507	Dissertation-II	0	0	0	40	60	100	20	500