



BRAINWARE UNIVERSITY
SCHOOL OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING-CYBER SECURITY & DATA SCIENCE
Master of Technology in Computer Science & Engineering- Data Science– 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	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	50*	0	0	0	AUC*
			18+2*	0	6	320+50*	480	800	21	

*Audit course 1



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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	50	0	0	0	AUC**
			14+2**	0	10	240+50**	360	600	19	

*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