



BRAINWARE UNIVERSITY
SCHOOL OF COMPUTATIONAL & APPLIED SCIENCES
DEPARTMENT OF CYBER SCIENCE & TECHNOLOGY
Master of Science in Advanced Networking & Cyber Security– 2025
(As per UGC NEP-2020)

SEMESTER-I

Sl.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MNC10400	Computer Networks	4	0	0	40	60	100	4	400
2	MNC10401	Windows Server Infrastructure	3	0	0	40	60	100	3	400
3	MNC19402	Core Hardware & Troubleshooting Lab	0	0	2	40	60	100	1	400
4	MNC19403	Computer Networks Lab	0	0	3	40	60	100	1.5	400
5	MNC19404	Windows Server Infrastructure Lab	0	0	3	40	60	100	1.5	400
6	MNC19405	Python Programming Lab	0	0	3	40	60	100	1.5	400
7	MNC10500	Network Penetration Testing	3	0	0	40	60	100	3	500
8	MNC19501	Network Penetration Testing Lab	0	0	3	40	60	100	1.5	500
9	MNC19502	Linux System Administration Lab	0	0	3	40	60	100	1.5	500
TOTAL			10	0	17	360	540	900	18.5	



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SEMESTER -II

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MNC20406	Research Methodology and Ethics	3	0	0	40	60	100	3	400
2	MNC20407	Enterprise Routing and Switching Technique	4	0	0	40	60	100	4	400
3	MNC29408	Enterprise Routing and Switching Technique Lab	0	0	3	40	60	100	1.5	400
4	MNC20409	Electives A. Network Security and Cryptography B. Blockchain C. MOOC*	3	0	0	40	60	100	3	400
5	MNC27503	Privilege Escalation	2	0	3	40	60	100	3.5	500
6	MNC27504	API Penetration Testing	2	0	3	40	60	100	3.5	500
7	MNC27505	Security Operation Centre Management	2	0	2	40	60	100	3	500
TOTAL			16	0	11	280	420	700	21.5	

*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	MNC37506	Active Directory Penetration Testing	3	0	2	40	60	100	4	500
2	MNC37507	Malware Analysis Using Digital Forensics	3	0	2	40	60	100	4	500
3	MNC38508	Project	0	0	0	40	60	100	12	500
TOTAL			6	0	4	120	180	300	20	

SEMESTER -IV

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Level
						CIA	TEE			
1	MNC48509	Dissertation	0	0	0	40	60	100	20	500
TOTAL			0	0	0	40	60	100	20	