



**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
<b>TOTAL</b>			<b>10</b>	<b>0</b>	<b>17</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>18.5</b>	



**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 -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
<b>TOTAL</b>			<b>16</b>	<b>0</b>	<b>11</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>21.5</b>	

\*MOOC/Equivalent MOOC approved by BoS Chair (Evaluation scheme as per Blended Learning and MOOCs Policy)



**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 -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
<b>TOTAL</b>			<b>6</b>	<b>0</b>	<b>4</b>	<b>120</b>	<b>180</b>	<b>300</b>	<b>20</b>	

**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
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>	