



**BRAINWARE UNIVERSITY**  
**SCHOOL OF COMPUTATIONAL & APPLIED SCIENCES**  
**DEPARTMENT OF CYBER SCIENCE & TECHNOLOGY**  
**Master of Science in Advanced Networking & Cyber Security - 2024**

**Semester-I**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits
						CIA	TEE		
1	MNC10101	Computer Networks	4	0	0	40	60	100	4
2	MNC19102	Computer Networks Lab	0	0	4	40	60	100	2
3	MNC10103	Linux System Administration	3	0	0	40	60	100	3
4	MNC19104	Linux System Administration Lab	0	0	4	40	60	100	2
5	MNC10105	Windows Server Infrastructure	3	0	0	40	60	100	3
6	MNC19106	Windows Server Infrastructure Lab	0	0	4	40	60	100	2
7	MNC17201	A. Core Hardware & Troubleshooting B. Computer Organization and Architecture	2	0	4	40	60	100	4
<b>TOTAL</b>			<b>12</b>	<b>0</b>	<b>16</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>20</b>

**Semester-II**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits
						CIA	TEE		
1	MNC20107	Web Analysis and Penetration Testing	3	0	0	40	60	100	3
2	MNC29108	Web Analysis and Penetration Testing Lab	0	0	4	40	60	100	2
3	MNC20109	Routing Associate	3	0	0	40	60	100	3
4	MNC29110	Routing Associate Lab	0	0	4	40	60	100	2
5	MNC29111	Python Programming Lab	0	0	4	40	60	100	2
6	MNC27202	A. Malware Analysis and Reverse Engineering B. Digital Forensics	2	0	4	40	60	100	4
7	MNC20301	A. Network Security and Cryptography B. Blockchain	4	0	0	40	60	100	4
<b>TOTAL</b>			<b>12</b>	<b>0</b>	<b>16</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>20</b>

**Semester-III**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits
						CIA	TEE		
1	MNC30112	Network Penetration Testing	3	0	0	40	60	100	3
2	MNC30113	Network Penetration Testing Lab	0	0	4	40	60	100	2
3	MNC37114	Active Directory Penetration Testing	2	0	2	40	60	100	3
4	MNC37203	A. Security Operation Centre Management B. Cloud Security	2	0	4	40	60	100	4
5	MNC37204	A. Mail Server Configuration B. Virtualization Technology	2	0	4	40	60	100	4
6	MNC30302	A. Artificial Intelligence and Machine Learning B. Research Methodology	4	0	0	40	60	100	4
<b>TOTAL</b>			<b>13</b>	<b>0</b>	<b>14</b>	<b>240</b>	<b>360</b>	<b>600</b>	<b>20</b>



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**Semester-IV**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits
						CIA	TEE		
1	MNC48101	Project/Dissertation	0	0	0	40	60	100	20
2	MNC48102	Grand Viva	0	0	0	0	100	100	4
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>160</b>	<b>200</b>	<b>24</b>