



**BRAINWARE UNIVERSITY**  
**SCHOOL OF COMPUTATIONAL & APPLIED SCIENCES**  
**DEPARTMENT OF COMPUTATIONAL SCIENCES**  
**MASTER OF COMPUTER APPLICATIONS - 2024**

**SEMESTER – I**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits
						CIA	ESE		
1	MCA17101	Problem Solving using Python	4	0	4	40	60	100	6
2	MCA10102	Mathematical Foundation for Computer Science	3	1	0	40	60	100	4
3	MCA17103	Interactive Web Designing	1	0	4	40	60	100	3
4	MCA17104	Computer Organization and Architecture	3	0	4	40	60	100	5
5	MCA17105	Database Management System	3	0	4	40	60	100	5
6	MCA19106	Professional Communication Lab	0	0	2	40	60	100	1
<b>TOTAL</b>			<b>14</b>	<b>1</b>	<b>18</b>	<b>240</b>	<b>360</b>	<b>600</b>	<b>24</b>

**SEMESTER – II**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits
						CIA	ESE		
1	MCA27107	Data Structure and Algorithm	3	0	3	40	60	100	4.5
2	MCA27108	Object Oriented Design Using Java	3	0	3	40	60	100	4.5
3	MCA20109	Operating System	3	0	0	40	60	100	3
4	MCA20110	Data Communication and Computer Network	4	0	0	40	60	100	4
5	MCA29111	PHP with Laravel Lab	0	0	4	40	60	100	2
6	MCA20201	A. Numerical and Statistical Analysis B. Image Processing C. Formal Language and Automata Theory	4	0	0	40	60	100	4
7	MCA20301	A. Organizational Behaviour B. Cyber Security C. MOOCs	4	0	0	40	60	100	4
<b>TOTAL</b>			<b>21</b>	<b>0</b>	<b>10</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>26</b>



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**SEMESTER – III**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits
						CIA	ESE		
1	MCA30112	Artificial Intelligence	4	0	0	40	60	100	4
2	MCA30113	Cloud Computing	4	0	0	40	60	100	4
3	MCA30114	Data Science	4	0	0	40	60	100	4
4	MCA38101	Dissertation-I	0	0	0	40	60	100	4
5	MCA30202	A. Compiler Design B. Android Application Development C. Advance Web Development	4	0	0	40	60	100	4
6	MCA30203	A. Information Retrieval B. Data Warehousing and Data Mining C. Big Data Analytics	4	0	0	40	60	100	4
7	MCA30302	A. Software Project Management B. Cyber Law and Ethics C. MOOCs	4	0	0	40	60	100	4
<b>Total</b>			<b>24</b>	<b>0</b>	<b>0</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>28</b>

**SEMESTER – IV**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits
						CIA	ESE		
1	MCA40115	Blockchain Technology	4	0	0	40	60	100	4
2	MCA40116	Software Engineering and UML	4	0	0	40	60	100	4
3	MCA48102	Compressive Viva-Voce	0	0	0	0	100	100	4
4	MCA48103	Dissertation-II	0	0	0	40	60	100	12
<b>TOTAL</b>			<b>8</b>	<b>0</b>	<b>0</b>	<b>120</b>	<b>280</b>	<b>400</b>	<b>24</b>