



**BRAINWARE UNIVERSITY**  
**SCHOOL OF COMPUTATIONAL & APPLIED SCIENCES**  
**DEPARTMENT OF COMPUTATIONAL SCIENCES**  
**Master of Science in Computer Science**  
**Programme Structure 2019**

**SEMESTER – I**

Course Code	Course Name	L – T – P	Credits	Total Marks
MCS101	Object Oriented Programming With Java	4 – 0 – 0	4	100
MCS191	Object Oriented Programming With Java Lab	0 – 0 – 3	2	100
MCS102	Database Management Systems	4 – 0 – 0	4	100
MCS192	Database Management Systems Lab	0 – 0 – 3	2	100
MCS103	Distributed Operating Systems	4 – 0 – 0	4	100
MCS104	Discrete Mathematics	4 – 0 – 0	4	100
	<b>Total</b>		<b>20</b>	<b>600</b>

**SEMESTER – II**

Course Code	Course Name	L – T – P	Credits	Total Marks
MCS201	Design & Analysis of Algorithm	4 – 0 – 0	4	100
MCS291	Algorithm Lab	0 – 0 – 3	2	100
MCS202	Software Engineering & TQM	4 – 0 – 0	4	100
MCS292	Software Engineering & TQM Lab	0 – 0 – 3	2	100
MCS203	Formal Language & Automata Theory	4 – 0 – 0	4	100
MCS204	Artificial Intelligence	4 – 0 – 0	4	100
	<b>Total</b>		<b>20</b>	<b>600</b>

**SEMESTER – III**

Course Code	Course Name	L – T – P	Credits	Total Marks
MCS301	Advanced Computer Architecture	3 – 1 – 0	4	100
MCS391	Computer Organization & Architecture Lab	0 – 0 – 3	2	100
MCS302	Internet Technology	3 – 1 – 0	4	100
MCS392	PHP & Python Lab	0 – 0 – 3	2	100
MCS303	A. Internet of Things / MOOC	3 – 1 – 0	4	100
	B. Machine Learning / MOOC	3 – 1 – 0	4	100
MCS304	Cryptography and Network Security	3 – 1 – 0	4	100
	<b>Total</b>		<b>20</b>	<b>600</b>



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**SEMESTER – IV**

<b>Course Code</b>	<b>Course Name</b>	<b>L – T – P</b>	<b>Credits</b>	<b>Total Marks</b>
MCS401	A. Cloud Computing / MOOC	3 – 1 – 0	4	100
	B. Data Science / MOOC	3 – 1 – 0	4	100
MCS491	Application Development Lab	0 – 0 – 4	2	100
MCS481	Project		4	100
MCS482	Grand Viva		2	100
	<b>Total</b>		<b>10</b>	<b>400</b>

**Total Credits: 70**