



**BRAINWARE UNIVERSITY**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**Master of Science in Computer Science 2017**

**SEMESTER – I**

<b>Paper Code</b>	<b>Paper Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
MCS(HU)101	English Communication	4-0-0	4	100
MCS101	Design and Analysis of Algorithms	3-1-0	4	100
MCS102	Database Management Systems	3-1-0	4	100
MCS103	Theory of Computation	3-1-0	4	100
MCS104	Discrete Mathematics	3-1-0	4	100
MCS(HU)191	English Communication Lab	0-0-4	3	100
MCS191	Design and Analysis of Algorithms Lab	0-0-4	3	100
MCS192	Database Management Systems Lab	0-0-4	3	100
	Total		29	800

**SEMESTER – II**

<b>Paper Code</b>	<b>Paper Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
MCS201	Advanced Operating Systems	3-1-0	4	100
MCS202	Software Engineering	3-1-0	4	100
MCS203	Compiler Design	3-1-0	4	100
MCS204	Artificial Intelligence	3-1-0	4	100
MCS205	A. Data Mining B. Modeling and Simulation C. Information and Coding Theory D. Operation Research	3-1-0	4	100
MCS291	Advanced Operating Systems Lab	0-0-4	3	100
MCS292	Software Engineering Lab	0-0-4	3	100
MCS(HU)291	Business Communication Lab	0-0-4	2	100
	Total		28	800



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**SEMESTER – III**

Paper Code	Paper Name	L - T - P	Credits	Total Marks
MCS301	A. Advanced Computer Architecture B. Soft Computing C. Image Processing D. Digital Signal Processing E. UNIX & Shell Programming	3- 1 – 0	4	100
MCS302	A. Enterprise Programming using J2EE B. Internet Technology using PHP/MySQL C. Object Oriented Programming and UML D. Database Administration using Oracle E. System Administration and Linux	3- 1 – 0	4	100
MCS303	A. Cyber Law and Security B. Distributed Computing C. Real Time System D. Mobile Computing E. Embedded System	3- 1 – 0	4	100
MCS304	Cryptography and Network Security	3- 1 – 0	4	100
MCS305	E-Commerce and ERP	3- 1 – 0	4	100
MCS391	A. Advanced Computer Architecture Lab B. Soft Computing Lab C. Image Processing Lab D. Digital Signal Processing Lab E. UNIX and Shell Programming Lab	0- 0 – 4	3	100
MCS392	A. Enterprise Programming using J2EE Lab B. Internet Technology using PHP/MySQL Lab C. Object Oriented Programming and UML Lab D. Database Administration using Oracle Lab E. System Administration & Linux Lab	0- 0 – 4	3	100
MCS381	Literature Survey		4	100
	Total		30	800



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**SEMESTER – IV**

<b>Paper Code</b>	<b>Paper Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
MCS(ENV)401	Disaster Management	2-0-0	2	100
MCS(HU)401	Values and Ethics	2-0-0	2	100
MCS401	Research Methodology	3-1-0	4	100
MCS491	Application Development Lab	0-0-4	4	100
MCS481	Major Project	0-0-4	16	100
MCS482	Grand Viva		4	100
	<b>Total</b>		<b>32</b>	<b>400</b>

**Total Credit: 119**