



**BRAINWARE UNIVERSITY**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**Master of Computer Applications 2017**

**SEMESTER – I**

Paper Code	Paper Name	L - T - P	Credits	Total Marks
MCA(HU)101	English Communication	4 - 0 - 0	4	100
MCA101	Digital Electronics	3 - 1 - 0	4	100
MCA102	C Programming	3 - 1 - 0	4	100
MCA103	MIS and System Design	3 - 1 - 0	4	100
MCA104	Discrete Mathematics	3 - 1 - 0	4	100
MCA(HU)191	English Communication Lab	0 - 0 - 4	3	100
MCA191	Digital Electronics Lab	0 - 0 - 4	3	100
MCA192	C Programming Lab	0 - 0 - 4	3	100
	Total		29	800

**SEMESTER – II**

Paper Code	Paper Name	L - T - P	Credits	Total Marks
MCA201	Computer Architecture and Microprocessor	3- 1 - 0	4	100
MCA202	Data Structure with Python	3- 1 - 0	4	100
MCA203	Formal Language and Automata Theory	3- 1 - 0	4	100
MCA204	Accountancy and Business Management	3- 1 - 0	4	100
MCA(HU)291	Business Communication Lab	0 - 0 - 4	2	100
MCA291	Computer Architecture and Microprocessor Lab	0 - 0 - 4	3	100
MCA292	Data Structure with Python Lab	0 - 0 - 4	3	100
MCA293	Object Oriented Programming with Java Lab	0 - 0 - 4	3	100
	Total		27	800

**SEMESTER – III**

Paper Code	Paper Name	L - T - P	Credits	Total Marks
MCA301	Operating System	3- 1 - 0	4	100
MCA302	Algorithm Analysis	3- 1 - 0	4	100
MCA303	DBMS	3- 1 - 0	4	100



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MCA304	Artificial Intelligence	3-1-0	4	100
MCA305	Operation Research	3-1-0	4	100
MCA391	Operating System Lab	0-0-4	3	100
MCA392	Algorithm Analysis Lab	0-0-4	3	100
MCA393	DBMS Lab	0-0-4	3	100
	Total		29	800

**SEMESTER – IV**

Paper Code	Paper Name	L - T - P	Credits	Total Marks
MCA401	Computer Network	3-1-0	4	100
MCA402	Computer Graphics	3-1-0	4	100
MCA403	Software Engineering	3-1-0	4	100
MCA404	A. Distributed System B. Distributed DBMS C. Cloud Computing D. Advanced Microprocessor and Micro controller E. Numerical Analysis	3-1-0	4	100
MCA491	Computer Network Lab	0-0-4	3	100
MCA492	Computer Graphics Lab	0-0-4	3	100
MCA493	Software Engineering Lab	0-0-4	3	100
MCA481	Literature Survey	0-0-2	2	100
	Total		27	800

**SEMESTER – V**

Paper Code	Paper Name	L - T - P	Credits	Total Marks
MCA(ENV)501	Disaster Management	2-0-0	2	100
MCA(HU)501	Values and Ethics	2-0-0	2	100
MCA501	A. Database Administration with Oracle	3-1-0	4	100



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	B. Internet Technology C. Mobile Computing			
MCA502	A. Soft Computing B. Image Processing C. Modern Application Development D. Wireless Sensor Network	3- 1 – 0	4	100
MCA503	Compiler Design	3- 1 – 0	4	100
MCA591	A. Database Administration with Oracle Lab B. Internet Technology Lab C. Mobile Computing Lab	0 – 0 – 4	3	100
MCA592	A. Soft Computing Lab B. Image Processing Lab C. Modern Application Development Lab D. Wireless Sensor Network Lab	0 – 0 – 4	3	100
MCA581	Minor Project- I	0 – 0 – 4	2	100
MCA582	Industrial Training	4 WEEKS DURING SEMESTER BREAK	2	100
	Total		26	900

**SEMESTER – VI**

Paper Code	Paper Name	L - T - P	Credits	Total Marks
MCA601	Research Methodology	3 – 1 – 0	4	100
MCA691	Mobile Application Development Lab	0 - 0 - 4	2	100
MCA681	Major Project	0 – 0 – 4	16	100
MCA682	Grand Viva		4	100
	Total		26	400

**Total Credit: 164**