

BRAINWARE UNIVERSITY SCHOOL OF COMPUTATIONAL & APPLIED SCIENCES DEPARTMENT OF COMPUTATIONAL SCIENCES Master of Computer Applications - 2023

SEMESTER - I

Course Code	Course Name	L-T -P	Credits	Total Marks
MCA101	Data Structures and Algorithms	3-1-0	4	100
MCA102	Interactive Web Designing	3-1-0	4	100
MCA103	Computer Architecture and Microprocessor	3-1-0	4	100
MCA104	Mathematical Foundation for Computer Science	3-0-0	3	100
MCA(HU)191	Professional Communication Lab	0-0-2	1	100
MCA191	Data Structures and Algorithms Lab	0-0-4	2	100
MCA192	Interactive Web Designing Lab	0-0-4	2	100
MCA193	Computer Architecture and Microprocessor Lab	0-0-4	2	100
	Total	29	22	800

SEMESTER-II

Course Code	Course Name	L-T-P	Credits	Total Marks
MCA201	Core Java and Advanced Java	3-1-0	4	100
MCA202	Advanced Operating Systems	3-1-0	4	100
MCA203	Formal Language and Automata Theory	3-1-0	4	100
MCA204	Data Communication & Computer Networks	3-1-0	4	100
MCA291	Core Java and Advanced Java Lab	0-0-4	2	100
MCA292	Advanced Operating Systems Lab	0-0-4	2	100
MCA293	PHP with Laravel	0-0-4	2	100
	Total	28	22	700



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SEMESTER-III

Course Code	Course Name	L – T – P	Credits	Total Marks
MCA301	Artificial Intelligence and Machine Learning	3-1-0	4	100
MCA302	Software Engineering using UML	3-1-0	4	100
MCA304 (Elective – I)	A. Cryptography & Network Security B. Cloud Computing	3-0-0	3	100
MCA305 (Elective – II)	A. Data Warehousing and Data Mining B. Big Data Analysis	3-0-0	3	100
MCA391	Artificial Intelligence and Machine Learning Lab	0-0-4	2	100
MCA392	Project Management Lab	0-0-4	2	100
MCA381	Minor Project		3	100
MCA382	Industrial Training		1	100
	Total	22	22	800

SEMESTER - IV

Course Code	Course Name	L – T – P	Credits	Total Marks
MCA401	A. Natural Language Processing	3-1-0	4	100
(Elective 3)	B. Applied Data Science			
MCA402	A. Internet of Things and Data Analytics	3-1-0	4	100
(Elective 4)	B. Deep Learning			
MCA403	A. Mobile Computing	3-1-0	4	
(Elective 5)	B. Introduction to Blockchain Technology and Applications			100
MCA491	A. Natural Language Processing Lab	0-0-4	2	100
(Elective 3)	B. Applied Data Science Lab			
MCA492	A. Internet of Things and Data Analytics Lab	0-0-4	2	100
(Elective 4)	B. Deep Learning Lab			
MCA481	Major Project		5	100
MCA482	Grand Viva		1	100
	Total	20	22	700

Total Credits: 88
Total Marks: 3000