



MCA Structure-Cycle 2024-25

MCA –SEM-I

Sr. No.	CourseCode	Course Type	Name of theCourse	Credits	Evaluation Scheme		Theory			Practical		Total Marks
					Lecture	Practical	ISE	MSE	ESE	Int	EPE	
1	24MCA1L101	DSC	Database Management Systems	3	3	-	20	20	60	-	-	100
2	24MCA1L102	DSC	Data Structures and Algorithms	3	3	-	20	20	60	-	-	100
3	24MCA1L103	DSC	Software Engineering	3	3	-	20	20	60	-	-	100
4	24MCA1L104	MDC	ComputationalStatistics	3	3	-	20	20	60	-	-	100
5	24MCA1L105	MDC	Management Concepts andApplications	3	3	-	20	20	60	-	-	100
6	24MCA1P106	DSC	LAB on Database Management Systems	2	-	4	-	-	-	20	30	50
7	24MCA1P107	DSC	JAVAProgramming	4	2	4	-	-	-	40	60	100
8	24MCA1P108	DSC	Lab on Data structure	1	-	2	-	-	-	50	-	50
9	24MCA1L109	VBC	Open Course-I UHV	2	2	-	50	-	-	-	-	50
			Total	24	19	10						750



MCA –SEM-II

Sr. No.	CourseCode	Course Type	Name of theCourse	Credits	Evaluation Scheme		Theory			Practical		Total Marks
					Lecture	Practical	ISE	MSE	ESE	Int	EPE	
1	242MCA1L201	DSC	Object Oriented Modelling	3	3	-	20	20	60	-	-	100
2	242MCA1L202	DSC	Computer Networks	3	3	-	20	20	60	-	-	100
3	242MCA1L203	DSC	Data Warehouse and Data Mining	3	3	-	20	20	60	-	-	100
4	242MCA1L 204	DSC	Operating System	3	3	-	20	20	60	-	-	100
5	242MCA1P205	DSC	Problem solving using Python	4	2	4	-	-	-	40	60	100
6	242MCA1P206	DSC	Dot Net Technology	4	2	4	-	-	-	40	60	100
7	242MCA1L207	VBC	Open Course-II (Liberal Learning)	2	2	-	50	-	-	-	-	50
8	242MCA1P208	DSC	Minor Project	1	-	2	-	-	-	20	30	50
9	242MCA1P209	DSC	Lab on Linux	1	-	2	-	-	-	50	-	50
			TOTAL	24	18	12						750



MCA –SEM-III

Sr. No.	CourseCode	Course Type	Name of the Course	Credits	Evaluation Scheme		Theory			Practical		Total Marks
					Lecture	Practical	ISE	MSE	ESE	Int	EPE	
1	242MCA2L101	DSC	Cloud Computing	3	3		20	20	60	-	-	100
2	242MCA2L102	DSC	Research Methodology	3	3	-	20	20	60	-	-	100
3	242MCA2L103	DSC	Artificial Intelligence	3	3	--	20	20	60	-	-	100
4	242MCA2L104	DSE	Elective-I	3	3	-	20	20	60	-	-	100
5	242MCA2P105	DSC	Mobile Application Development	3	2	4	-	-	-	40	60	100
6	242MCA2P106	DSC	Advanced Java	4	2	4	-	-	-	40	60	100
7	242MCA2P107	DSC	Internship Project	2	-	4	-	-	-	40	60	100
8	242MCA2L108	VBC	Open Course-III -(Foreign Language)	2	2	-	50	-	-	-	-	-
		TOTAL		23	18	12						700



MCA –SEM-IV

Sr. No.	CourseCode	Course Type	Name of the Course	Credits	Evaluation Scheme		Theory			Practical		Total Marks
					Lecture	Practical	ISE	MSE	ESE	Int	EPE	
1	242MCA2L201	DSC	Information Security	3	1	4	20	20	40	-	60	100
2	242MCA2L202	DSC	Software Testing and Quality Assurance	3	3	-	20	20	40	-	-	100
3	242MCA2L203	DSC	Software Project Management	3	3	-	20	20	40	-	-	100
4	242MCA2L204	DSE	Elective-II	3	3	-	20	20	40	-	-	100
5	242MCA2P205	DSC	Full stack development	4	2	4	-	-	-	40	60	100
6	242MCA2P206	DSC	Project	1	-	2	-	-	-	20	30	50
7	242MCA2P207	DSC	Lab on Software Testing	1	-	2	-	-	-	50	-	50
			TOTAL	18	12	12						600



Elective Course Details : MCA-Sem-III & SEM-IV

	Elective	Elective -I	Elective -II
1	Data Science	Basics of Data Science	Data Analytics & Data Visualization
2	Big Data	Big Data Analytics	Exploring Business Intelligence Tools and Hadoop Integration
3	Data Mining	Data Mining & Business Intelligence	Web Mining
4	Machine Learning	Basics of Machine Learning	Machine Learning Techniques
5	Artificial Intelligence	Knowledge Engineering & Expert System	Problem Solving Methods in AI /AI & Neural Network
6	Soft Computing	Introduction to Soft Computing	Fuzzy Logic & its Applications
7	Cyber Security	Introduction to Cyber Security -I	Cryptography & Network Security

