



Faculty Name: Computer Science

Programme Name: Master of Computer Application (MCA)

### Programme Structure Summary

SEMESTER 1												
Course Group	Course Name	Cr	Teaching Scheme				INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing	
			T	P	Tu	Cont. Hrs						
Core Courses	Operating System	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Python Programming	4	4	-	-	4	50/20	50/20	-	-	100/40	
	PHP Programming	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on Python Programming	3	-	6	-	6	-	-	50/20	50/20	100/40	
	Practical Based on PHP Programming	3	-	6	-	6	-	-	50/20	50/20	100/40	
Elective Courses (Any Two)	Advanced Web Programming	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on Advanced Web Programming	3	-	6	-	6	-	-	50/20	50/20	100/40	
	Relational Database Management System	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on Relational Database Management System	3	-	6	-	6	-	-	50/20	50/20	100/40	
	Data Structure	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on Data Structure	3	-	6	-	6	-	-	50/20	50/20	100/40	
	Advanced Java	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on Advanced Java	3	-	6	-	6	-	-	50/20	50/20	100/40	

SEMESTER 2												
Course Group	Course Name	Cr	Teaching Scheme				INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing	
			T	P	Tu	Cont. Hrs						
Core Courses	Cloud Computing	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Full Stack Web Development	4	4	-	-	4	50/20	50/20	-	-	100/40	
	User Interface Development using React	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on Full Stack Web Development	3	-	6	-	6	-	-	50/20	50/20	100/40	
	Practical Based on User Interface Development using React	3	-	6	-	6	-	-	50/20	50/20	100/40	
Elective Courses (Any Two)	Data Science using Python and R	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on Data Science using Python and R	3	-	6	-	6	-	-	50/20	50/20	100/40	
	User Interface Development using Vue	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on User Interface Development using Vue	3	-	6	-	6	-	-	50/20	50/20	100/40	



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SEMESTER 3												
Course Group	Course Name	Cr	Teaching Scheme				INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing	
			T	P	Tu	Cont. Hrs						
Core Courses	Computer Network	4	4	-	-	4	50/20	50/20	-	-	100/40	
	NoSQL Databases	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Software Engineering and Agile	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on NoSQL Databases	3	-	6	-	6	-	-	50/20	50/20	100/40	
Elective Courses - I (Any Two)	Advanced Web Application Development	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on Advanced Web Application Development	3	-	6	-	6	-	-	50/20	50/20	100/40	
	Web Development using Python	4	4	-	-	4	50/20	50/20	-	-	100/40	
	Practical Based on Web Development using Python	3	-	6	-	6	-	-	50/20	50/20	100/40	
Elective Courses - II (Any One)	Cyber Security	3	3	-	-	3	50/20	50/20	-	-	100/40	
	Test Automation	3	3	-	-	3	50/20	50/20	-	-	100/40	

SEMESTER 4												
Course Group	Course Name	Cr	Teaching Scheme				INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing	
			T	P	Tu	Cont. Hrs						
Core Courses	Project Work	25	-	-	-	-	-	-	300/ 120	300/ 120	600/ 240	



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## Programme Outcomes

PO-1	Iterative approach of Software Management and Software Development
PO-2	Iterative approach of Web Application Development
PO-3	Design and Develop Advanced Web Application
PO-4	Configure Virtual Machine on Cloud
PO-5	Full stack developer
PO-6	Improve skill in Advance Database Management System
PO-7	Function effectively to solve computer science related problems
PO-8	Utilize the computing knowledge efficiently in projects