



Master of Computer Applications (MCA)

Pattern: 2025

2 Years – 4 Semesters Full Time Programme Effective from AY 2025 – 2026

Programme Structure (NEP)

Choice Based Credit System (CBCS) and Grading System Outcome-Based Education

SEMESTER 1		
Course Type	Course Name	Credit
DSC	Java Programming	3
DSC	Java Programming Lab	1
DSC	Data Structures and Algorithms	3
DSC	Data Structures and Algorithms Lab	1
DSC	Business Mathematics & Statistics	3
DSE	Elective-I Web Development	3
	Elective-I Fundamental of Cloud Computing	
Audit	Communicative English	1
DSC	Advanced Software Engineering	4
DSC	Principles of Management	3

Instructions, if any: 1 Theory/Tutorial Hour = 1 Credit, 2 Practical hours = 1 Credit

SEMESTER 2		
Course Type	Course Name	Credit
DSC	Python Programming	3
DSC	Python Programming Lab	1
DSC	Advanced Data Base Management	3
DSC	Advanced Data Base Management Lab	1
DSC	Optimization Technique	4
DSE	Elective-I Advance Web Development	3
	Elective-I Cloud Computing & Security	
DSC	Data modelling & Visualization	4
Audit	Personality Development	1
DSC	Organizational Behaviour	2

Instructions, if any: 1 Theory/Tutorial Hour = 1 Credit, 2 Practical hours = 1 Credit

SEMESTER 3		
Course Type	Course Name	Credit
DSC	Mobile Application Development	3
DSC	Mobile Application Development Lab	1
DSC	AI & ML	3
DSC	AI & ML Lab	1
DSC	Research Methodology	4
DSE	Elective-1 Application Development Using IOT Sensors	3
	Cloud Migration and Management	
DSC	Data Warehousing and Data Mining	4
AUDIT		1
DSC	Big Data Analytics	2

Instructions, if any: 1 Theory/Tutorial Hour = 1 Credit, 2 Practical hours = 1 Credit

SEMESTER 4		
Course Type	Course Name	Credit
OJT	Internship/Project	4
RP	Project	6
DSC	MOOC-I (Information Security)	3
DSC	MOOC-II (Devops)	3
DSC	Social Media Marketing	3
DSC	Computer Networks	3

Instructions, if any: 1 Theory/Tutorial Hour = 1 Credit, 2 Practical hours = 1 Credit