

Course Structure & Evaluation Scheme

Master of Computer Application (MCA)

[Academic Session 2020-21]



**UNITED UNIVERSITY,
PRAYAGRAJ**

**Master of Computer Application (MCA) 1 Year (1 & 2 Semester) Degree Programme United University, Prayagraj
Course Structure & Evaluation Scheme 2020-2021 Session**

Master of Computer Application (MCA)

Semester : I					
S.No.	Course Title	Total Credits	L	T	P
1	Computer Fundamentals	4	4		
2	Programming & Problem Solving using C Language	4	3	1	
3	Computer Organization & Architecture	4	3	1	
4	Discrete Mathematics	4	3	1	
5	Fundamentals of Logic Building	2			
6	Computer Programming Lab	2			2
7	Computer Organization Lab	2			2
8	Professional Communication Lab	2			2
		24			
Semester : II					
S.No.	Course Title	Total Credits	L	T	P
1	Data Structures	4	3	1	
2	Database Management System	4	3	1	
3	System Analysis & Design	4	3	1	
4	Object Oriented Programming	4	3	1	
5	Technical Writing	2	2		
6	Data Structures Lab	2			2
7	Database Management System Lab	2			2
8	Object Oriented Programming Lab	2			2
		24			

**Master of Computer Application (MCA) 2 Year (3 & 4 Semester) Degree Programme United University, Prayagraj
Course Structure & Evaluation Scheme 2020-2021 Session**

Master of Computer Application (MCA)

Semester : III					
S.No.	Course Title	Total Credits	L	T	P
1	Analysis of Algorithms	4	3	1	
2	Operating System	4	3	1	
3	Software Engineering	4	3	1	
4	Computer Graphics & Multimedia	2	2		
5	Fundamentals of E-Commerce	2	2		
6	Analysis of Algorithms (Lab)	2			2
7	Operating System (Lab)	2			2
8	Computer Graphics & Multimedia (Lab)	2			2
9	Web Programming (Lab)	2			2
	CRT				
Semester : IV					
S.No.	Course Title	Total Credits	L	T	P
1	Computer Network	4	3	1	
2	Internet & Java Programming	4	3	1	
3	Unix/ Shell Programming	4	3	1	
4	Data Mining	2	2		
5	Elective -I	2	2		
6	Computer Network Lab	2			2
7	Internet & Java Programming Lab	2			2
8	Unix/ Shell Programming Lab	2			2
9	Data Mining Lab	2			2
	CRT				

**Master of Computer Application (MCA) 3 Year (5 & 6 Semester) Degree Programme United University, Prayagraj
Course Structure & Evaluation Scheme 2020-2021 Session**

Master of Computer Application (MCA)

S.No.	Elective -I				
1	Network Security and Cryptography				
2	Digital Image Processing				
3	Pattern Recognition				
4	ERP Systems				
5	Software Project Management				
6	Real Time Systems				
7	Mobile Computing				
8	Neural Networks				
Semester : V					
S.No.	Course Title	Total Credits	L	T	P
1	Financial Accounting	4	3	1	
2	Distributed Systems	4	3	1	
3	Elective -II	4	3	1	
4	Elective -III	2	2		
5	Python Programming Lab	2	2		
6	Distributed Systems Lab	2			2
7	Cloud Computing Lab	2			2
8	Financial Accounting Lab using Tally	2			2
9	Mini Project I (SRS and Design)	2			2
	CRT				
S.No.	Elective -II	Elective -III			
1	Computer Graphics and Animation	Parallel Processing System			
2	Simulation and Modeling	Object Oriented Analysis & Design			
3	Machine Learning	System Programming			
4	Big Data Analytics	Operational Research			
5	Data Compression	Optimization Techniques			
6	Software Project Management	Comp. Based Numerical & Statistical Techn.			
7	Information Retrieval System	Machine Learning			
8	Embedded System	Big Data Analytics			
Semester : VI					
S.No.	Course Title	Total Credits	L	T	P
1	Colloquium	4			
2	Project	20			
3	General Proficiency				