

Course Structure(MCA)

Semester-I		
Course Type	Course code	Course Title
Foundation Course	MCA-101	Discrete Mathematical Structure
Foundation Course	MCA-102	Universal Human Values
Core Theory	MCA-103	Computer Fundamentals and Programming in C++
Core Theory	MCA-104	Database Management Systems
Core Theory	MCA-105	Computer Organisation and Architecture
Core Theory	MCA-106	Operating Systems
Practical Lab	MCA-107	Lab-I: C++ Programming
Practical Lab	MCA-108	Lab-II: DBMS
Practical Lab	MCA-109	Lab-III: Operating Systems

Semester-II		
Course Type	Course code	Course Title
Core Theory	MCA-201	Software Engineering
Core Theory	MCA-202	Data Structure Using C
Core Theory	MCA-203	Java Programming
Core Theory	MCA-204	Web Technology (CSS, JavaScript and PHP)
Core Theory	MCA-205	Computer Network
Elective	MCA-206	Elective-II
Practical Lab	MCA-207	Lab-IV : Data Structure
Practical Lab	MCA-208	Lab-V : Java Programming
Practical Lab	MCA-209	Lab-VI: Web Technology
Elective-II		
Elective	MCA-206(A)	Artificial Intelligence
Elective	MCA-206(B)	Software Quality Assurance
Elective	MCA-206(C)	Computer Graphics
Elective	MCA-206(D)	Image processing

Semester-III		
Course Type	Course code	Course Title
Foundation Course	MCA-301	Business Communication
Core Theory	MCA-302	Programming in Python
Core Theory	MCA-303	Android Programming
Core Theory	MCA-304	Cloud Computing and Big Data
Core Theory	MCA-305	Theory of Computation
Elective	MCA-306	Elective-III
Practical Lab	MCA-307	Lab-VII : Lab Python
Practical Lab	MCA-308	Lab-VIII : Android Lab
Practical Lab	MCA-309	Lab-IX: Minor Project
Elective-III		
Elective	MCA-306(A)	Data Warehouse and Mining
Elective	MCA-306(B)	Soft Computing
Elective	MCA-306(C)	Distributed System
Elective	MCA-306(D)	Data Analytics

Semester-IV		
Course Type	Course code	Course Title
Foundation Course	MCA-401	Operation research
Foundation Course	MCA-402	Fundamentals of management
Core Theory	MCA-403	Analysis and Design of Algorithms
Elective	MCA-404	Elective IV
Major Project	MCA-405	Industrial Training and Project Work
Elective	MCA-404(A)	Internet of things (IOT)
Elective	MCA-404(B)	Parallel Computing
Elective	MCA-404(C)	Computer Design
Elective	MCA-404(D)	Cyber security