



MCA

Semester Wise Subjects in the Entire Curriculum as per AKTU

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow

MCA 1st Year

MCA 1st Semester (ODD)	MCA 2nd Semester (EVEN)
1 Fundamental of Computer & Emerging Technologic	1 Theory of Automata & Formal Languages
2 Problem Solving Using "C"	2 Object Oriented Programming
3 Principle of Management & Communication	3 Operating Systems
4 Discrete Mathematics	4 Database Management Systems
5 Computer Organization & Architecture	5 Data Structures & Analysis of Algorithms
6 Labs / Practical	6 Cyber Security
	7 Lab / Practical

MBA 2nd Year

MCA 3rd Semester (ODD)	MCA 4th Semester (EVEN)
1 Artificial Intelligence	1 Elective - 3
2 Software Engineering	2 Elective - 4
3 Computer Network	3 Elective - 5
4 Elective - 1	4 Lab / Practical
5 Elective - 2	5 Projects
6 Lab / Practical	
7 Mini Projects	



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MCA - ELECTIVE SUBJECTIVE

ELECTIVE - 1		ELECTIVE - 2	
1	Cryptography & Network Security	1	Web Technology
2	Data Warehousing & Data Mining	2	Big Data
3	Software Project Management	3	Simulation & Modeling
4	Cloud Computing	4	Software Testing & Quality Assurance
5	Compiler Design	5	Digital Image Processing

ELECTIVE - 3		ELECTIVE - 4	
1	Privacy & Security in Online Social Media	1	Blockchain Architecture
2	Soft Computing	2	Neural Network
3	Pattern Recognition	3	Internet of Things
4	Data Analytics	4	Modern Application Development
5	Software Quality Engineering	5	Distributed Database Systems

ELECTIVE - 5	
1	Mobile Computing
2	Computer Graphics and Animation
3	Natural Language Processing
4	Machine Learning
5	Quantum Computing