

MCA

Master of Computer Applications (MCA) is a three year long professional post-graduate programme for candidates wanting to delve deeper into the world of computer application development with the help of learning modern programming language. The programme is a blend of both theoretical and practical knowledge. An MCA degree endows students' an opportunity to work with tools meant to develop better and faster applications.

Designed to meet the shortage of qualified professionals in the IT (Information Technology) industry, an MCA degree - in India - is offered by many colleges. Infact, there are various colleges that also offer integrated MCA programmes as well.

Students pursuing an MCA programme would have the option to choose from the following specialisations:

Application Software	Systems Management
Hardware Technology	Systems Development
Internet	Systems Engineering
Management Information Systems (MIS)	Software Development
Networking	Troubleshooting

Required Skill Set for MCA

Good communication and behavioral skills	A positive attitude
Confidence	Strong technical skills
Good command over programming languages like C, C++, Java, .Net, etc.	Good programming skills and hands on experience
Knowledge of data structure and database	Awareness of latest technology trends

Eligibility Criteria for MCA

According to AICTE, to pursue an MCA course candidates must have pursued [BCA/ BSc/ BCom/ BA](#) degree with Mathematics as one of the subjects at 10+2 level or at graduation.

However, MCA colleges in India might ask you to fulfill the following as well:

- Minimum marks required: 50% to 60% (a CGPA above 6/10 is considered good) in Bachelor's; 55% and above in Class 12th. Class 10th marks do not matter in most cases.

***Note:** The above mentioned eligibility criteria might differ from college to college. This is just an overview.*

Course Curriculum for MCA

The basic curriculum of a typical MCA programme includes topics like network and database management, electronics, mobile technologies, financial accounting, mathematics, statistics, cloud computing, Java programming etc.

Semester 1	Semester 2
Introduction in IT	Info Systems Analysis Design & Implementations
Computer Organisation & Architecture	Operating Systems
Programming & Data Structure	Oral and Wireless Communications
Introduction to Management functions	Accounting and Management Control
Mathematical foundations	Probability & Combinatorics
IT Lab	Business Programme Lab
Programming Lab	Unix & Windows Lab
Semester 3	Semester 4
Data Base Management Systems	Network Programming
Computer Communication Networks	Software Engg. I
Object Oriented Analysis and Design	Elective I
Management Support System	Organizational Behaviour
Statistical Computing	Elective 2
DBMS Lab	Network Lab
Statistical Computing Lab	CASE Tools Lab
Semester 5	Semester 6
A.I and Applications	Project
Software Engineering II	Seminar
Elective 3	
Elective 4	
Optimisation Techniques	
AI & Application lab	

Optimisation Techniques Lab	
Industrial Lectures Seminar, Project	

MCA: Types of Job profiles and Top recruiters

There is no dearth of lucrative job opportunities for MCA graduates. A candidate with a master's degree in computer applications along with the right amount of relevant work experience, skill set and caliber can easily find great job opportunities at leading IT firms (both private and government) across India and abroad

Some of the top job profiles for MCA graduates are:

App Developer	App developers are individuals designing, building and maintaining mobile application for android, iOS, windows, blackberry platforms etc.
Business Analyst	A Business analyst typically mentors people aiming to start a business of their own.
Database Engineer	Database engineers are hired by computer systems companies with an aim to design and monitor complex databases. The role revolves around ensuring the operation, validity and relevancy of the data.
Ethical Hacker	Ethical hackers are experts who access a network or computer system on behalf of its owner to uncover security vulnerabilities that a malicious hacker could possibly exploit.
Hardware Engineer	Hardware engineers install and test systems to ensure proper functioning of the internet. These folks are also involved in the testing and production of hardware equipment.
Manual Tester	As the name suggests, manual testers physically test software for defects. These individuals are required to play the role of an end user who makes use of almost all the features of the application to ensure behaving accurately.
Technical Writers	Being a technical writer, one is expected to write technical documents like product description, design specifications, user manuals and guides etc.
Trouble-shooters	Troubleshooters are experts who ensure that technology - both hardware and software - come handy to those who need it. In case of an issue, they resolve the same to make sure that projects are delivered on time
Social Media Handler	Companies hire social media specialist to handle their popularity and presence amongst people through the virtual world.
Web Designer/Developer	Web developers/designers are mainly responsible for constructing a website. With a creative mind and well versed software skills, these individuals develop and design World Wide Web applications, HTML, Photoshop, Flash etc.