

**ParvathaneniBrahmayya**  
**Siddhartha College of Arts and Science, Vijayawada**  
**(Autonomous)**

## **Programme: M.Sc. (Computer Science)**

---

M.Sc. (Computer Science) abbreviated as M.Sc.(CS) is a two-year post-graduation program with the objective to develop advanced programming skills and strategies to solve various logical challenges using different programming languages. M.Sc. Computer Science or M.Sc.(CS) focuses more on *Developing Software* and *Networking-based Skills*. M.Sc.(Computer Science) is one of the most pursued computer courses to get good jobs in India. According to a census, in 2016, 81.3 thousand male and 79.2 thousand female candidates graduated with computer science.

There are a lot of career opportunities after completing M.Sc. in Computer Science such as working as a *Software Developer, Tester, Web Developer, Cryptography, Networking Master*, etc.

M.Sc.(Computer Science) syllabus is divided into two years and each year of study comprises two semesters. Some of the major M.Sc.(Computer Science) subjects are *Advanced Programming Language, Operating Systems, Data Structures, Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Advanced Computer Networks* and *Data Visualization*.

### **What is M.Sc.(Computer Science) ?**

M.Sc.(Computer Science) is a career-making course for computer enthusiasts. Aspirants with Bachelor's Degrees in Computer Science, Computer Applications and others are drawn and attracted to this course. The continuous & remarkable growth in the digital front has resulted in the growing popularity of various courses in the field of technology. Computer Science is one such area in which the education sector takes great interest.

M.Sc.(Computer Science) may be a two-year post-graduate program. The M.Sc.(Computer Science) is meant to equip you with the knowledge and skills to develop innovative solutions which the fashionable computing industry requires.

## **Why Study M.Sc.(Computer Science)?**

The range of computing applications and their importance to our way of life has expanded rapidly and gained more importance in recent years. There are many developments in artificial life in various fields like computer vision, robotics, mobile devices and game applications that have all become a normal part of our interactions with computing devices.

## **Who Should Study M.Sc.(Computer Science)?**

- One must have the ability to create and invent things, good knowledge of technology and an interest in mathematics and science.
- One should be familiar with programming and computer hardware/software.
- One should have good analytical skills, an eye for details sustained attention and the ability to solve problems.
- One should possess good communication skills, be proficient in analyzing and evaluating data and have the skill to make decisions, work in teams and to express their ideas both orally and in writing.

## **M.Sc.(Computer Science) Scope**

Computer science forms the foundation of numerous computer-related fields. There are career opportunities that reach overseas also. Many jobs are available in the private as well as government sector. The specializations in the field range from data science and computer languages to cybersecurity. The scope is unbounded given that technology and digitization are being adopted globally.

The remarkable growth in the digital front and technology has resulted in the growing popularity of jobs and work in the field of Computer Science. There are a lot of career options for students pursuing M.Sc C.S all around the world because there are a lot of specializations in a single course. The average salary and packages in this field vary from INR 2,40,000 to INR 7,50,000 or more with different specializations.

## **M.Sc.(Computer Science) Jobs**

Check the careers you can pursue by having a degree of MSc in computer science.

Programmer	A programmer works with software developers. They need to rewrite their program to write on various system platforms including OS X or Windows.	3,50,000 - 12,50,000
Computer-Aided Designer	A computer-aided designer or a CAD designer creates project designs and plan outlines, for a particular business need. They also handle various technologies, as well as software applications, to produce graphic illustrations.	3,20,000 - 8,46,000
Computer Science Engineer	Computer Engineers are responsible for conducting tests, designing, implementing and maintaining computer hardware and software systems.	INR 4,10,000 - 11,30,000
Data Scientists	Data Scientists help organizations to deal with vexing problems by extrapolating and sharing various insights. Data scientists also do the work of solving answers from different domains including computer science, statistics, modeling, and analytics, which helps organizations in making objective decisions.	INR 3,90,000 - 7,20,000
Network Engineer	Network engineers or network architects are responsible for planning, constructing, and managing networks to establish their proper optimization and functioning. Also, network engineers do the work of founding an organization's IT system.	INR 3,50,000 - INR 4,30,000
Software Engineer	The major role of a software engineer is to develop software and systems for the business. These products which the software engineers develop, can either be operating systems, business applications, etc	INR 5,20,000 - 13,00,000
Web Designer	Web designers mainly initiate plans, and are responsible for creating and coding internet web pages, and internet sites. Many of these combine pictures, graphics, text with sounds, and video clips.	INR 4,67,000 - 7,80,000
Web Developer	The principal work of web developers is to create and maintain websites. They also ensure if the site is performing well or not, and what is its capacity, i.e. what is the speed of that site, and how much traffic can it handles.	INR 4,48,000 - INR 9,34,000

## **Ph.D. after M.Sc.(Computer Science)**

PhD in Computer Science is one of the top academic qualifications in the field of Computer Science that an individual can earn. Ph.D. in Computer Science is a 3 - 5 years course. PhD in C.S can be done after completing M.Sc(Computer Science). There are a lot of advantages after completing Ph.D. in C.S because:

- They are in high demand
- Research-based work
- The emergence of a new computing field
- Teaching

## **Admission Process**

Admissions to M.Sc. (Computer Science) are done on the basis of merit. The government of Andhra Pradesh notifies the admission process and asks registration for convener quota of 32 seats from the students who are qualified in the APPGCET. The remaining 13 seats will be in management quota. For management quota consult the college office or use chat bot for enquiry.

## **Eligibility**

Students who wish to pursue M.Sc. (Computer Science) course should fulfil the following eligibility criteria.

- Computer Science/ Computer Applications as one of the subjects in Under graduation or Computer Science/Computer Applications as major
- They should clear their Under Graduation exam from a recognized University.