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Siddhartha College of Arts and Science, Vijayawada
(Autonomous)

Programme: BSc Honours (Computer Science and Cognitive Systems)

BSc Honours Computer Science and Cognitive Systems is an **Industry Integrated Program**, introduced in **collaboration with TCS**, abbreviated as BSc CSCS, is a 4-year undergraduate program that deals with the subjects and topics related to computer science, computer applications, and its services. The main aim of this program is create a talent pool of Industry ready students and teaching ecosystem which would provide value to IT business needs in the areas of IT - Infra structure, IT -Applications - Maintenance & Support. It also develops industry relevant students from Computer Science stream, improving behavioral and technical capability with Innovation mind set.

BSc Honours (Computer Science and Cognitive Systems) Syllabus is a combination of core and optional subjects. BSc Computer Science and Cognitive Systems Subjects include IT Infrastructure Management, IT Infrastructure Library, Virtualization and Cloud Computing, Process Management, Operating Systems concepts, Computer Network, Java, Python Programming, Software Engineering and Testing, Client Relationship Management, Digital Technology, IT Cognition and Problem Solving and Campus to Corporate

BSc Honours (Computer Science and Cognitive Systems) Quick facts

Here are some of the important facts that the candidates must know about BSc Computer Science and Cognitive Systems:

- The basic eligibility of the course is 50% marks in the 12th or equivalent exam in the science stream
- Learning cognitive systems at the present moment has more relevance and scope in accordance with the vast career and higher studies options available for the students. Students who learn cognitive systems are more futuristic to create more technologies that will help the development of the human race as a whole.

- Candidates after completing the course can opt for higher education. Some of the courses that a candidate can pursue are MSc Computer Science, MTech Computer Science, MBA Information Technology, etc.
- A BSc Computer Science and Cognitive Systems graduate can earn a salary up to INR 6 lacs.
- BSc Computer Science and Cognitive Systems graduates are preferred by TCS during campus recruitment. These graduates can also secure jobs in other MNCs operating in IT and IT Services sectors.

BSc Honours (Computer Science and Cognitive Systems) Benefits

The following are the BSc Computer Science and Cognitive Systems benefits that the candidates can avail if they take up the course:

- The Indian IT sector is expected to grow strongly in the coming years, and is estimated to contribute 10% to the nation's GDP. Thus, it increases the scope of job opportunities in the IT sector.
- The graduates of BSc Computer Science and Cognitive Systems can land jobs in a wide range of companies such as computer hardware system companies, computer networking companies, software development companies, academic institutions and many more.
- The importance and boom of cognitive systems industries are seen worldwide and also in India. Many MNC companies are developing their strength in Cognitive systems. Learning the course of cognitive systems with interest and understanding its concept and applications can increase your career options manifold.
- The candidates would also be open to research because the field of study is continuously morphing.

Who Should Study BSc Honours (Computer Science and Cognitive Systems)?

- Candidates who have an interest in computers, both hardware and software should pursue this course.
- Candidates who want to develop web applications or software that eases the life of people can pursue this course.
- Candidates who want to become entrepreneurs after completing their graduation can opt for this course. It allows them to start their own consultancy firms.
- Aspirants who are interested in improving their knowledge about computers to get a promotion or improve their career prospects can opt for distance or online courses.

BSc Honours (Computer Science and Cognitive Systems) Jobs and Salary

CSCS graduates will be treated as a one year experienced software engineer by TCS and also have a wide range of job opportunities in sectors such as Banks, IT department in top MNCs, Technical Support, Software development, System Maintenance, Research & Development, Tech Consultancies, Security & Surveillance, and others.

This can be called one of the highest paying BSc specializations as the course leads to a number of jobs and career options which can get you an **average salary** of around **INR 6 Lakhs Per Annum**.

Some of the major job profiles that a student can go for after the course completion are System Engineer, Software Engineer, Software Developer, Software Testing and Computer hardware Operator, etc.

The table below shows a detailed description of major job profiles after completing BSc Computer Science and Cognitive Systems:

Job Positions	Job Description	Average Salary
Software Engineer	They are responsible for developing software solutions with the help of different methods and tools. They also prepare and install solutions by determining and designing programming, etc.	INR 5.10 LPA
Website Developer	Website Developers are responsible for the technical part of the website. They mainly write efficient code and follow best coding practices to develop different types of websites as needed by the employer.	INR 3.07 LPA
Mobile App Developer	Like Website developers, Mobile App developers are responsible to develop efficient applications for the mobile.	INR 4.41 LPA
UI/UX Developer	UI/UX developers design graphic user interface elements such as menus, tabs, widgets, etc.	INR 4.92 LPA
IT Supervisor	An IT Supervisor is responsible for supervising the staff and training new recruits and making sure that the work is efficiently going on in the IT department of that company or organization.	INR 3.73 LPA

Network Engineer	They are the technical experts who are responsible for setting up computer networks and maintaining them.	INR 3.13 LPA
Software Quality Assurance (SQA) Tester	SQA Testers usually evaluate software and applications for errors and make sure they are stable. They usually debug the scripts and identify the problems in it.	INR 3.35 LPA

BSc Honours (Computer Science) Scope

In terms of higher education, students can go for many relevant Master's degrees in subjects like Computer science, artificial intelligence, data science, and others.

MSc Computer Science	MSc Software Engineering	MSc Data Science
MSc Data Analytics	MSc Information Technology	MSc Cyber Security

Other than this, you should get a certification in the latest technologies, emerging tools, and languages to stay updated with your skills and knowledge, which will help you in your career growth and better salary.

There are other options also available like **Master of Business Administration** (MBA) or **PGDM**, which can help you set your career in the management field, be it IT or any other sector.

BSc Honours (Computer Science and Cognitive Systems) Admission Process

Admissions to **BSc Honours (Computer Science and Cognitive Systems)** are done on the basis of merit. The government of Andhra Pradesh notifies the admission process and asks registration for convener quota of 105 seats. The remaining 45 seats will be in management quota. For management quota consult the college office or use chat bot for enquiry.

BSc Honours (Computer Science and Cognitive Systems) Eligibility

Students who wish to pursue **BSc Honours (Computer Science and Cognitive Systems)** courses should fulfil the following eligibility criteria in order to get through colleges offering **BSc Honours (Computer Science and Cognitive Systems)**,

- Students should clear class 12th board exams.
- They should clear their class 12th board exams from a recognized board

Proposed minors

Software Project Management/UML/Cyber Securities/Kotlin/Data Analytics /PHP Programing /Digital Marketing / Image Processing.