



B.SC. (COMPUTER SCIENCE)

Programme Duration 3 Years

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About Programme

Bachelor of Computer Science is an engineering science which studies the principles and use of computers. This course is concept oriented which provide students the opportunity to practice of learning computer related subjects with sound knowledge of the software and hardware components of any computer system.

The aim of the program is to create quality professionals with good understanding of the technology at intermediate level. As a result, the hi-tech industry offer excellent paying jobs to students.

Eligibility & Admission

All those candidates who have passed the 10+2 or its equivalent examination in any stream.

OR

Those candidates who have passed their Matriculation examination and have also passed three year Diploma in any trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.

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Learning Outcomes

Students will attain an ability to apply knowledge of computing and mathematics appropriate to the problem domain.

Students will be able to identify and define the computing requirements for the given problem domain.

Students will be able to analyse the problem and design a solution, taking into account the social impact of computing on individuals, organisations and society.

Students will be able to use the skills, and tools necessary for computing practice.

Demonstrate professional behaviour and communication skills.

Career Prospects

B.Sc Computer Science graduates can work as a Web Developer, Web Designer, Network Administrator, Computer Programmer, Software Developer, Software Tester, etc.

Various companies recruit graduates of B.Sc Computer Science. Some of the companies are Wipro, Infosys, HCL, etc.

The average salary of B.Sc Computer Science graduates is INR 5 lac per annum.

Programme Structure

Semester I

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- ▶ Introduction to Computers and IT
- ▶ Programming in 'C'
- ▶ Personality Development-I
- ▶ System Analysis and Design
- ▶ Mathematical Foundation of Computer Science-I

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- ▶ **Communications-I**
- ▶ **Management Information System**
- ▶ **Mathematical Foundation of Computer Science II**

Semester III

- ▶ **Object Oriented Programming using C++**
- ▶ **Computer Architecture**
- ▶ **Database Management System**
- ▶ **Web Designing**

Semester IV

- ▶ **Data Communication and Network**
- ▶ **RDBMS**
- ▶ **Visual Basic Programming**
- ▶ **Microprocessor and Microcontroller**

Semester V

- ▶ **Computer Graphics**
- ▶ **Core Java**
- ▶ **Software Engineering**
- ▶ **Data Warehouse and Mining**

Semester VI

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► Principles of Management



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