

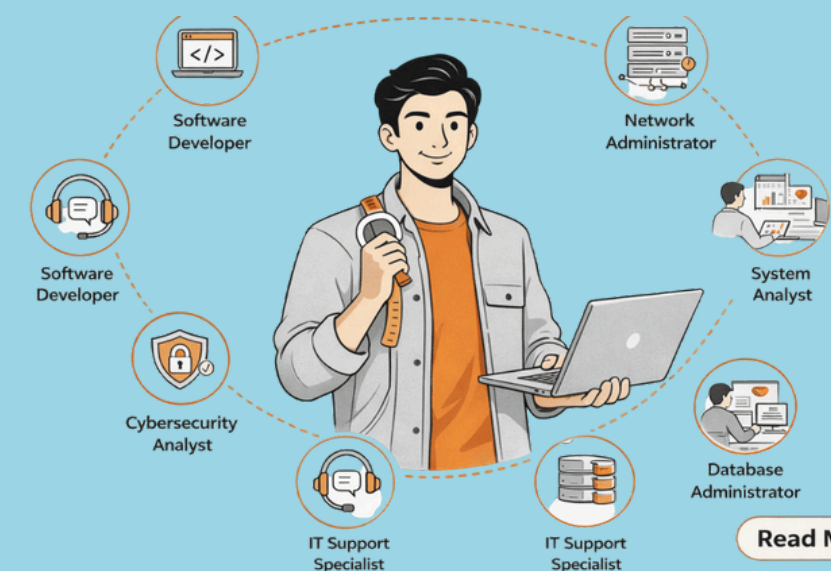
# Department of B.Sc. Computer Science and Information Technology

The IT Department at Loyola Academy combines theoretical knowledge with practical learning in areas like software development, cybersecurity, networking, cloud computing, and data analytics. It emphasizes hands-on experience through labs, workshops, and industry collaborations while training students in modern technologies and programming languages. The curriculum fosters innovation, critical thinking, and teamwork, preparing students to excel in the tech industry.



## Career Opportunities

After successful completion, students will be placed as Software Developers, Data Scientist, Cyber security analyst, System Administrators & IT Consultants



Read More

## Higher Education Prospects

Students are also eligible to pursue higher education in: M.Sc. (Computer Science) M.Sc. (Data Science) M.Sc. (AI & ML) M.Sc. (Information Technology) MCA & MBA M.Sc. (Networking) or any other allied program

## Unique Features of Our Program

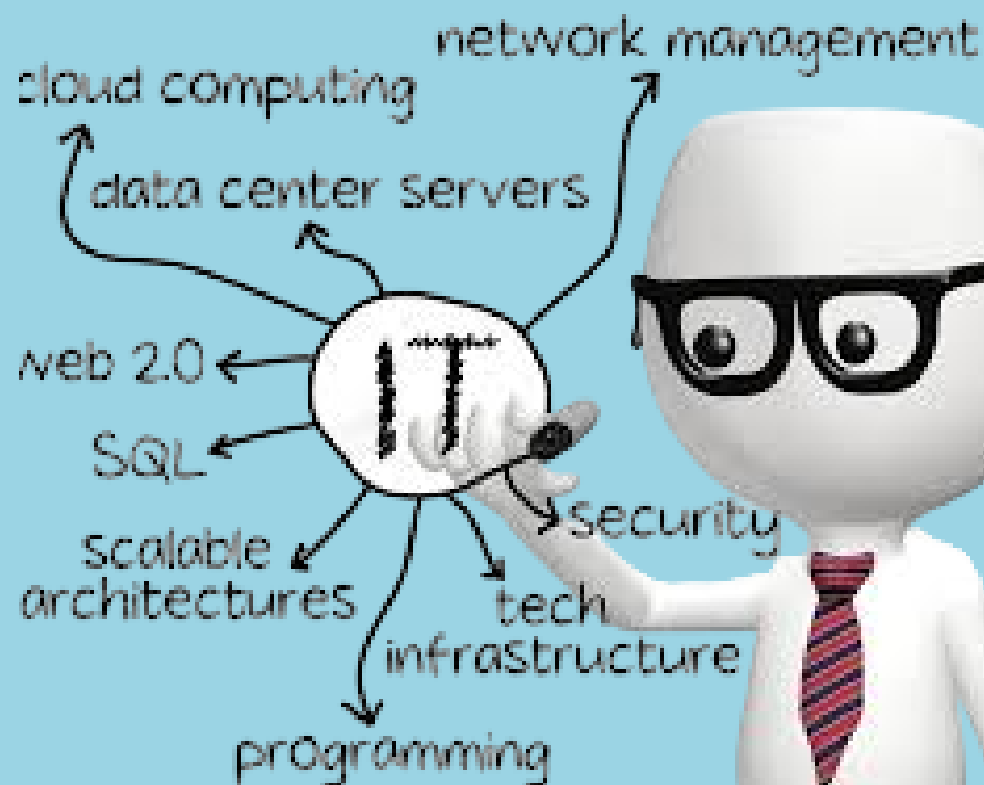
CSIT offers specializations like machine learning, cybersecurity, software engineering, web development, and computer forensics. Students gain hands on experience through projects, coding assignments, and lab work. This practical approach helps apply theoretical concepts to real-world problems. It enhances technical and problem-solving skills for career readiness. CSIT programs equip students with both knowledge and industry relevant expertise.

## Why Loyola Academy?

NAAC Accredited and recognized for academic excellence. Strong industry connections ensuring top-notch placements. Innovation-driven approach with a focus on emerging technologies.

## Courses Offered

CSIT department typically covers a range of core subjects including programming languages, Quantum computing, Artificial Intelligence, Machine Learning, Deep Learning, Cloud Computing, Databases, and Networking. These form the foundation upon which more specialized topics are built.



## Vision & Mission

Vision:

To contribute to the society, to produce quality resource in Information Technology and related areas for Sustainable Development in the IT industry.

Mission:

To produce well qualified and motivated graduates through a rigorous curriculum of theory and application that develops the ability to solve problems, individually and as a teams.

## Admission eligibility

Candidate must have completed 10+2/Intermediate passed with minimum of 60% with MPC/MBipc/MEC



# B.Sc. Computer Science and Information Technology

SEM 1

SEM 2

SEM 3

SEM 4

SEM 5

SEM 6

## SUBJECTS

- English – I
- Value Education & Personality Development
- Matrix Algebra & Vector Calculus
- Digital Logic Design
- Programming for problem solving using C
- Operating Systems

## SUBJECTS

- English – II
- Indian Heritage and Culture
- Discrete Mathematics
- Computer Networks
- Data Structures & Algorithms using C
- Principles of Information Security

## SUBJECTS

- English-III
- Generic Elective
- EVS & GS
- Database Management Systems
- Ethical Hacking
- Programming for Problem Solving using Python

## SUBJECTS

- English-IV
- Data Visualization Through Power BI
- Probability & Statistics
- Artificial intelligence
- Java Programming
- Data Engineering Through python
- Short term Intern

## SUBJECTS

- Quantum Computing
- Software Engineering
- Machine Learning
- Full Stack Development
- Web Application Testing / Bigdata-Analytics
- Social Media Analytics / Computer Forensics

## SUBJECTS

- Deep Learning
- IOT/ Cloud Computing
- Software Testing/ Python Scripting
- Project Work

## EXTRA CURRICULAR ACTIVITIES

- SPORTS
- AICUF
- MAGIC YOUTH
- RESONANCE
- NCC
- NSS

## STUDENT SUPPORT

- ACADEMIC COUNSELING
- MENTORING
- GENERIC ELECTIVE
- SELF STUDY

## NON-CGPA COURSES

- PLANET
- NPTEL
- BRIDGE COURSES

## STUDENT CENTRIC METHODS

- MINOR PROJRCTS
- INTERNSHIPS
- RESEARCH PAPERS
- POSTER PRESENTATIONS
- GROUP DISCUSSIONS / SEMINARS/DEBATES