

Department of B.Sc. Computer Science and Information Technology



The Information Technology (IT) Department at Loyola Academy focuses on both theoretical and practical aspects of computing. It covers key areas such as software development, cybersecurity, networking, cloud computing, and data analytics. The department emphasizes hands-on learning through lab sessions, workshops, and industry collaborations. Students are trained in modern technologies and programming languages to enhance their technical skills. Innovation, critical thinking, and teamwork are encouraged to prepare students for real-world challenges. The curriculum integrates industry-relevant tools and methodologies for a competitive edge. With a strong foundation in IT, students are equipped to contribute effectively to the tech industry and society.



Vision & Mission

Vision-

- To contribute to the society, to produce quality human 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.

Core Subjects

CSIT departments typically cover a range of core subjects including programming languages, data structures, algorithms, computer architecture, operating systems, databases, and networking. These form the foundation upon which more specialized topics are built.

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.



Career Opportunities

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

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

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.

Activities of department

- Industrial visits are organized every year to improve students' learning skills.
- Parent-teacher meetings are conducted every semester to improve communication between teachers and parents.

Admission Guidelines

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

B.Sc. COMPUTER SCIENCE AND INFORMATION TECHNOLOGY



- GENERAL ENGLISH – I
- VALUE EDUCATION & PERSONALITY DEVELOPMENT
- DIGITAL LOGIC DESIGN & COMPUTER ORGANIZATION
- DIFFERENTIAL EQUATIONS AND ELEMENTARY NUMBER THEORY
- COMPUTER NETWORKS
- PROBLEM SOLVING AND PROGRAMMING IN C

- GENERAL ENGLISH – II
- INDIAN HERITAGE AND CULTURE
- PRINCIPLES OF INFORMATION SECURITY
- MATRICES AND VECTOR CALCULUS
- OPERATING SYSTEMS
- DATA STRUCTURES WITH C

- (GE-2)
- ENVIRONMENTAL STUDIES & GENDER SENSITIZATION
- DATABASE MANAGEMENT SYSTEMS
- PROBABILITY AND STATISTICS
- WEB TECHNOLOGY
- PYTHON PROGRAMMING

- DISCRETE MATHEMATICS
- DATA VISUALIZATION THROUGH POWER BI
- MACHINE LEARNING
- DISTRIBUTED SYSTEMS
- SERVER ADMINISTRATION TOOLS
- JAVA PROGRAMMING
- INTERNSHIP

- INFRASTRUCTURE SECURITY / COMPUTER FORENSICS
- ARTIFICIAL INTELLIGENCE/ BIG DATA ANALYTICS
- LINUX ADMINISTRATION TOOLS
- PYTHON SCRIPTING
- CLOUD COMPUTING
- SOFTWARE ENGINEERING

- IOT / SOFTWARE TESTING
- DEEP LEARNING / NATURAL LANGUAGE PROCESSING
- SCALABLE ARCHITECTURE
- PROJECT WORK

EXTRA CURRICULAR ACTIVITIES

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

STUDENT SUPPORT

- ACADEMIC COUNSELLING
- MENTORING
- GENERIC ELECTIVE
- SELF STUDY

NON-CGPA COURSES

- PLANET
- NPTEL
- BRIDGE COURSES

STUDENT CENTRIC METHODS

- MINOR PROJECTS
- INTERNSHIPS
- RESEARCH
- PAPERS POSTER
- GROUP DISCUSSIONS
- SEMINARS
- DEBATES
- PRESENTATIONS