



Department of B.Sc. Computer Science and Cloud Computing

Dept introduction 2022



CLOUD COMPUTING

Vision & Mission

Vision:

To develop skilled data science professionals who contribute to technological advancements and data-driven decision-making.

Mission:

To provide industry-relevant education in data analytics, AI, and machine learning.
To foster problem-solving and analytical thinking skills.
To encourage research and innovation in data science applications.

Courses Offered

B.Sc. Cloud Computing (3 years) Curriculum

Highlights:

Virtualization and Cloud Computing

Devops

Cloud Based Application Development

Distributed systems

Go language

Unique Features of Our Program

- Comprehensive Curriculum-A blend of computer science, statistics, and domain-specific knowledge to prepare students for real-world applications
- Industry-Oriented Learning - Focus on practical skills through real-world projects, internships, and case studies.
- Advanced Technologies - Exposure to Cloud Computing, Virtualization and Big Data Analytics.
- Problem-Solving Focus - Develops strong analytical and critical thinking skills essential in the data-driven industry.



Higher Education Prospects

- MSc Computer Science
- MCA
- MSc Data Science
- MBA (Any Allied Program)

Admission eligibility

Candidates must have completed 10+2 (Intermediate) with a minimum of 60% in MPC/MEC.

Career Opportunities

Cloud Architect
DevOps Engineer,
Security Analyst
Cloud Engineer
Cloud Computing Specialist
Software Developer

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.



B.Sc. Computer Science and Cloud Computing

SEM 1

SEM 2

SEM 3

SEM 4

SEM 5

SEM 6

SUBJECTS

- GENERAL ENGLISH-I
- VALUE EDUCATION AND PERSONALITY DEVELOPMENT
- FUNDAMENTALS OF INFORMATION TECHNOLOGY
- MATHEMATICS - I
- OPERATING SYSTEMS
- PROGRAMMING THROUGH C

SUBJECTS

- GENERAL ENGLISH-II
- INDIAN HERITAGE & CULTURE (AECC-4)
- IT HARDWARE & NETWORKING
- MATHEMATICS- II
- COMPUTER NETWORKS
- DATA STRUCTURES
- THROUGH C

SUBJECTS

- ENVIRONMENTAL STUDIES
- AND GENDER SENSITIZATION
- WEB PROGRAMMING
- DATABASE MANAGEMENT SYSTEMS
- DISCRETE MATHEMATICS
- DISTRIBUTED SYSTEMS
- JAVA PROGRAMMING

SUBJECTS

- PROBABILITY & STATISTICS
 - MACHINE LEARNING
 - PYTHON PROGRAMMING
 - WEB TECHNOLOGIES
 - CLOUD COMPUTING ARCHITECTURE
 - SOFTWARE ENGINEERING
- SUMMER INTERNSHIP**

SUBJECTS

- CRYPTOGRAPHY & NETWORK SECURITY
- INTERNET OF THINGS
- CLOUD BASED APPLICATION DEVELOPMENT & DEPLOYMENT
- CLOUD BACKUP & DISASTER RECOVERY
- DEVOPS
- DEEP LEARNING
- BIGDATA WITH SPARK

SUBJECTS

- Cloud Strategy & Planning
- Management
- Cyber Security
- Software Testing
- **MAJOR PROJECT**

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