BSc COMPUTER SECIENCE AND COGNITIVE SYSTEMS

WHAT IS UNIQUE ABOUT LOYOLA'S
B.Sc.COMPUTER SCIENCE & Cognitive Systems

• This program would ensure that the students graduating from this will gain knowledge in not only the core topics of Computer Science, but also develop an equal appreciation of current industry standards.

• Students will learn to comprehend and integrate their research practice in computational linguistics ("language"), machine learning ("learning"), and artificial intelligence ("reasoning").

• Special features of this program include, industry ready syllabus drafted in collaboration with TCS. This facilitates more placement opportunities after completion of the course.

• Noting that the field of computer technology is fast changing due to innovation and automation, the new technologies like Artificial Intelligence, Machine Learning, Big Data Analytics incorporated in this program play a pivotal role in the career of students.

We bring the real-world to the classroom, through TCS Academic Interface Program (AIP):

• Designing & Deployment of industry relevant course curriculum.

• Building a talent pool of industry-ready graduates.

• A full-fledged course curriculum in the field of IT infrastructure and IT applications-Maintenance and Services.

Student's Engagement programs

COGNITIVE PROCESS

How does AIP benefits students?

• Value-added graduation degree with an in-depth understanding of real time IT infrastructure domains blended with practical lab experiences in the area of :

• Computer Network &Operating System

• Virtualization & Cloud Computing

• Infrastructure Management, Process Management & Client Relationship Management

• Artificial Intelligence & Machine Learning

• Programming (C, C++, JAVA, PYTHON, DBMS)& Software Testing.

Infrastructure Facilities

- Spacious Campus
- Excellent laboratories that provide the best practical knowledge to the students
- Good infrastructure
- College Hostel
- Medical facilities
- Bank
- Innovation Centre
- Cafeteria
- Stationery

Placements/Higher Education/Soft Skills

- CRT training is provided for students to secure placements in campus interviews.
- Academic Consultants for higher Education.
- Soft skills classes are conducted to improve communication skills.

Library and Information Center

- Delnet
- Inflibnet
- Online Journals
- Books

Activities of the 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.
- Science Day to explore student talents through a project exhibition
- Senior Orientations and Guest Lectures
- Workshops, seminars ,internship programs, mini and major programs

LOYOLA ACADEMY

Career Opportunities:
After successful completion, students will be placed as
- Software Engineer
- AI/Machine Learning Engineer
- AI Cognitive Support Engineer
- Data Analyst
- Cognitive Scientist
- Software Consultant

Higher Education Opportunities:
Students are also eligible to pursue higher education in:
- M.Sc. (Big Data Analytics)
- M.Sc. (Computer Science)
- M.Sc. (Data Science)
- M.Sc. (Information Security)
- M.Sc. (Information Technology)
- M.C.A
- MBA or any other allied program.

COGNITIVE COMPUTING

ADMISSION GUIDELINES
Candidates must have completed 10+2 or passed with minimum of 60% or above with MPC / MEC at Intermediate level.

Learn & Act

B.SC. COMPUTER SCIENCE & COGNITIVE SYSTEMS

1st SEMESTER

Theory: General English-I · Value Education & Personality Development · Introduction to worksheets · Operating systems · Computer Fundamentals · Problem solving & Programming in C

Practical's: Worksheets · Unix Shell Programming · C Programming

2nd SEMESTER

Theory: General English-II · Indian Heritage & Culture · Computer Networks · Server Administartion · Mathematics for Cognitive Science · Data Structures through C

Practical's: Computer Networks · Server Administration · Data Structures through C

3rd SEMESTER

Theory: Environmental Studies & Gender Sensitization · GE - Introduction to Worksheet · Discrete Mathematics · Infrastructure Mangement · Virtualization and cloud · Python Programming

Practical's: GE - Worksheets · Infrastructure Management · Python Programming · Virtualization and cloud

4th SEMESTER

Theory: Probability & Statistics · Object Oriented Systems Development · Artificial Intelligence · DBMS · Process Management · Java Programming

Practical's: Object oriented systems development · DBMS · Java Programming · Mini Project

5th SMESTER

Theory: Information and Storage Managemet(DSE-1) · Cloud Computing tools & techniques(DSE-1) · Machine learning Techniques · Software Testing · Client Relationship Management · Introduction to Digital Technology

Practical's: Machine Learning Techniques · Software Testing · Client Relationship Management · Introduction to Digital Technology

6th SMESTER

Theory: Principles of Information Security(DSE-2) · Cognitve Computing(DSE-2) · Infrastructure Security(DSE-3) · IT Infrastructure Library(DSE-3) · Big Data Analytics · Major project

Practical's: Big Data Analytics · Major project

EXTRA-CURRICULAR ACTIVITIES

Sports · NCC · NSS · AICUF · Magic Youth · Resonance

EXTENSION ACTIVITIES

PLANET · Industrial visits · Senior Orientation

GENERIC ELECTIVE

Introduction to worksheets

STUDENT SUPPORT

Academic counseling · Mentoring

NON-CGPA COURSES

NPTEL · Certificate Course · CRT · Clubs · Soft Skills · Bridge Course · Self-study · Add on

STUDENT CENTRIC METHODS

Minor projects · Internships · Research papers · Poster presentation · Group discussion/Seminar/debate · Peer learning

Loyola Academy