



Welcome to

## Loyola Academy Degree & PG College

(Autonomous and affiliated to Osmania University)

Re-accredited with 'A' Grade (3.20/4.00 CGPA) by NAAC (III Cycle) A "College

with Potential for Excellence" by UGC

Where Learning Comes to Life!

# B.Sc. Chemical Technology

(Year of Establishment 1978, Oldest & First Department)

**ENROLL NOW**



**Academic Year 2026-2027 (Limited Seats)**

Are you looking for a nurturing & inspiring environment for your child? Join us at Loyola Academy!

### WHY CHOOSE US?

Experienced Faculty from IITs, NITs, IICT & Govt. Universities

Our dedicated staff is committed to your child's success.

### Holistic Education

Our focus on academics, arts, and sports helps foster the holistic development of students.

### Safe Environment

Your child's safety is our top priority.

### Entitled designations after the course

Engineer, Chemist, Sciencepreneur, Entrepreneur, Safety Professionals

### PROGRAM OFFERED

**Core Subjects:** Chemical Engineering, Chemistry, Physics, and Mathematics (including computer software like Aspen Plus, Comsol Multiphysics, MATLAB), Computers Courses (C Programming, Web Programming, Python, Blockchain, Artificial Intelligence, IOT, Refinery Simulation, Petrochemicals Plant Computer Operation, Nuclear & Renewable Power Plant Operation)

### HOW TO APPLY

- Visit Our Website: <https://loyolaacademy.edu.in/>
- Complete the Application Form.
- On-campus counselling and guidance services
- Schedule a Tour: Experience our campus firsthand!

#### Financial:

- Management Scholarships
- Endowment Fund (Dept.)
- Free Breakfast to Athletes
- Sponsorship to NCC/NSS Camps

#### Career Advancement:

- Placements
- Guidance to Higher Education
- Mentoring

### Physical & Mental Growth (Holistic Development)

#### Spiritual:

- Morning Prayers
- Weekly Prayer Meetings
- Retreats
- Spiritual Day

#### Leadership:

- Student Council
- CR
- ACR

#### Adventure & Training:

- NCC
- NSS
- Sports
- Clubs
- PLANET

**Eligibility:**

**10+2**

**(MPC/ MBIPC) /  
Diploma**



### Employment Package:

- Highest Package is 6.98 LPA
- Average Package is 5.5 LPA

### WHAT'S NEXT AFTER THIS COURSE?

#### Higher Studies

- ✓ M.Sc. Chemistry
- ✓ M.C.A.
- ✓ M.B.A
- ✓ B.Tech. (Equiv.) through AMIE
- ✓ Abroad Studies with a Letter of Recommendation from reputed Ph.D. faculty

#### Employment

##### Government / Non-Government jobs:

- Defense
- Banking (South Indian Bank, ICICI)
- Revenue etc.

##### Chemical/Pharmaceutical Industries

- Hetero Drugs,
- Dr. Reddy's laboratories,
- Neuland laboratories,
- Vasanth Chemicals,
- Sarvagram Fincare Pvt. Ltd.,
- Omega Healthcare,
- Laxai Life Sciences Pvt. Ltd.,
- MSN Life Sciences Pvt. Ltd.,
- Dr. Bonding Construction Chemicals LLP
- Aurore Life Sciences,
- Escentia,

##### National level reputed companies like:

- Bharath Petroleum Corporation Ltd.
- ITC Ltd.
- IFFCO
- Asian Paints Ltd.
- Rajashree Cements Limited
- MRF Ltd.
- Hindustan Petroleum Corporation Limited, etc.

Join our community and watch

**Contact Us** your child thrive!

Ph: 040-27860077/

8977012915/ 8977012914

(10:00 am to 4:00 pm) || Email ID:

admissions@loyolaacademy.edu.in

y.edu.in



# B.Sc. Chemical Technology



SEM 1

SEM 2

SEM 3

SEM 4

SEM 5

SEM 6

## SUBJECTS

- English-1
- Value Education & Personality Development
- Differential Equations & Matrices
- Basic Concepts of Inorganic, Organic Chemistry & Gaseous state
- Electromagnetism, Electronics & Optics
- PROGRAMMING in C

## SUBJECTS

- English-2
- Indian Heritage & Culture
- Numerical Analysis
- Chemistry of Halogen, Alcohol Derivatives & Solutions
- Modern Physics & Technologies
- PYTHON
- PLANET

## SUBJECTS

- English-3
- Generic Elective
- Foundations of AI
- Chemistry of Carbonyl, Carboxylic acid Analogs and Electrochemistry
- Fluid Mechanics
- Chemical Process Principles
- Instrumentation & Process Control

## SUBJECTS

- English-4
- Environmental studies & Gender Sensitization
- Simulation Software
- Catalysis, Stereo and Coordination Chemistry
- Heat Transfer
- Industrial Chemical Technology
- Quantum Computing and Technologies

## SUBJECTS

- Mass Transfer Operations-I
- Industrial Chemical Technology-II
- Inorganic Reaction Mechanism, Thermodynamics Spectroscopic Techniques
- Chemical Reaction Engineering
- PB & PBE / IM
- PCAC & PT / AI in CT
- Mechanical Unit Operations
- SHORT TERM INTERNSHIP

## SUBJECTS

- Mass Transfer Operations-2
- Dissertation
- Green and Bioorganic & Inorganic Chemistry
- NCES / EE & SF
- CACT / OSCT

## 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