

B.Sc. Chemical Technology



LOYOLA ACADEMY

Library and Information Center

- Delnet
- Inflibnet
- Online Journals
- Online books



Career Opportunities

After successful completion of the course, students will be placed in

- **In & around Hyderabad:**
 - Asian Paints
 - Escentia Pvt. Ltd.
 - Hetero Drugs,
 - Dr. Reddy's laboratories,
 - Neuland laboratories,
 - Vasanth Chemicals
 - Granules India
 - Syped Labs
 - Laxai
 - Sowbhagya Biotech., etc.
- **National-level reputed companies:**
 - Nuclear Fuel Complex.
 - ITC Ltd.
 - Asian Paints Ltd.
 - Rajashree Cements Ltd.
 - MRF Ltd.
 - IFFCO
 - Hindustan Petroleum Corporation Ltd. etc.
- **Government / non-government jobs with degree eligibility such as:**
 - UPSC
 - IFS
 - Defense
 - Banking
 - Revenue etc.
- **Higher Education Opportunities:**
 - M.Sc. Chemistry
 - M.Sc. Physics
 - M.Sc. Maths
 - M.B.A.
 - M.C.A.
 - B.Tech. (Equivalent) through AMIE



Admission Guidelines

Essential Qualification: Candidate must have completed 10+2/ Intermediate and passed with a minimum of 55% in the MPC discipline or Diploma in science category.

Contact: Principal Office, Administrative Block, Loyola Academy, Alwal-500010, Telangana, India
Department of Chemical Technology, Inigo Block
(Staff Room No- IG314B)



Activities of the Department

- **Industrial Visit:** To improve students' learning skills
- **Lab-to-School Programme:** To improve students' presentation and communication skills by sharing subjective and practical knowledge in schools.
- **Mentoring & Guidance:** Students are allotted for each faculty to follow their progress and offer career guidance.
- **Remedial Classes:** A program for Slow Learners, where the weak students in academics are given special focus, and extra emphasis, to enhance their performance.
- **Program for Advanced Learners:**
 - In-house and Mini Research Projects.
 - Participation in competitions conducted by other colleges.
 - Training on writing projects or project proposals, research papers, and publishing depending on student interest.
- **Parents Teacher Meetings:** Conducted every semester to make aware of the performance of their ward to parents. Via a three-way process where parent, student, and teacher discuss and address the academic issues.
- **National Science Day:** To explore student talents through project exhibitions.
- **Workshops, Seminars, Internship programs**
- **Minor projects**
- **Career Awareness Talk**
- **Alumini Interaction Hour**
- **NPTEL Courses, short-term courses, etc.**

Department Lab Facility

- Physics Lab
- Chemistry Lab
- Physical Chemistry Lab
- Heat Transfer Lab
- Machine Unit Operations Lab
- Mass Transfer Operations Lab
- Solar Lab
- Chemical Reaction Engineering Lab
- Fluid Mechanics Lab



Physical & Mental Growth (Holistic Development)

- **Adventure & Training:**
 - NCC
 - NSS
 - Sports
 - Clubs
 - PLANET
- **Leadership:**
 - Student Council Representative
 - Class Representative (CR)
 - Assistant Class Representative (ACR)
- **Spiritual:**
 - Morning Prayers
 - Weekly Prayer Meetings
 - Retreats
 - Spiritual Day



About the Programme

- The Department of Chemical Technology was the first department set up at Loyola Academy, in the year 1978. The course of B. Sc. Chemical Technology (CT) is affiliated with Osmania University, and it was brought under grant-in-aid by the Government of Telangana in 1990. In the year 2023, B.Sc. CT has been withdrawn from Degree Online Services of Telangana (DOST) and now the admission is completely in line with other courses of Loyola Academy.
- The course is a job-oriented course which has had a very good reputation for the past 45 years. The curriculum for the course was designed to suit the present requirements of chemical industries, research organizations, and multinational companies.
- Our students are placed in various prestigious companies like DuPont de Nemours, Inc., ITC, Hetero Drugs, Dr. Reddy's labs, Rajashree Cements, MRF Ltd., Neuland laboratories, Asian Paints, etc. They pursue higher studies from premier institutes in India and prestigious universities around the globe.
- The department is blessed with many learned faculties, a couple of them have more than 25 years of experience, most of our faculty have full-time doctoral degrees from premier institutes, and the remaining faculty have registered for their PhDs.
- This is the only course in the country which is having a blend of chemistry and chemical engineering subjects. Apart from the laboratories with all the equipment for basic science subjects like physics and chemistry, our department has a good number of core chemical engineering laboratories such as Fluid Mechanics, Heat Transfer, Mass Transfer, Mechanical Unit Operations, Chemical Reaction Engineering, and Chemical Technology.
- The department has a state-of-the-art research laboratory to conduct research and most of the research findings are disseminated through filing patents, publications in peer-reviewed International journals with high impact factors, books, book chapters published by world-renewed publishers such as the American Chemical Society (ACS), Elsevier, Taylor & Francis, Wiley Inc., Springer Nature, etc.
- Program serves basic knowledge of chemical engineering computer software like Aspen Plus, Comsol Multiphysics, and MATLAB.
- Entitled designations after the course Engineer, Chemist, Sciencepreneur, Entrepreneur, Safety Professionals

Placements/Higher Education/Soft Skills

- CRT training is provided for students in placement interviews
- Academic Consultants for higher education
- Soft skills classes are conducted
- Classes for communication skills improvement



What's Unique?



Loyola's B.Sc. Chemical Technology offers a unique amalgamation of Chemistry & Chemical Engineering through theoretical knowledge and practical experience, focusing on infusing science, engineering, and technology together for the holistic development of society through our students. The Course ensures students' growth by integrating innovative practices and skill-based learning through involvement in the Chemical/Pharmaceutical/Food industries, and their transformation into socially responsible citizens.

- **Comprehensive Curriculum:** The course was designed to suit the present requirements of chemical industries, research organizations, and multinational companies. Our students pursue higher studies from premier institutes/prestigious universities in India and around the globe.
- **Industry Integration:** The program emphasizes practical knowledge and experiences through mini/major projects, NPTEL courses, internships, industrial visits, Lab-to-School programs, and by providing practical exposure inside/outside the institute by the eminent faculties.
- **Practical Learning:** Sufficient infrastructures facilitate innovative teaching methodologies and student-centric methods through workshops, hands-on projects, and practical exposure.
- **Exclusive Recruitment Opportunities:** The recruitment drives organized by Loyola provide connections between potential employers and students that result in their employability.
- **Soft Skills Development:** The program focuses on enhancing analytical skills, teamwork abilities, and personality development to ensure that well-rounded professionals are ready to excel in the workplace and become socially responsible citizens.
- **Employability:** The strong group of the Placement Committee strives to provide a relevant platform by facilitating students with practical experiences & knowledge with industry-relevant skills; and so, that Loyola's graduates are turning towards employability, higher education, and are equipped to tackle the challenges of rapidly evolving technologies for society and environment.

Infrastructure Facilities

- Spacious Campus
- College Hostel (Boys & Girls)
- Full Furnished Classrooms
- ICT Tools facilitate Classrooms and Seminar halls
- Industries Linked Projects
- In-House Projects
- Industrial Visits
- Lab to School Program
- Medical facilities
- Bank
- Innovation center
- On Campus Stationary
- Cafeteria
- Playgrounds



Academic Facilities

- Encouraging Student's Seminars & Presentation on Subjects
- Group Discussions
- YouTube lectures by faculties
- Virtual Classes
- LCD/Wi-Fi and LAN (ICT facilities)
- Projector facilities
- Lecture Capturing and making available all the time online
- Weekly Assignments



B.Sc - Chemical Technology

