

DEPARTMENT OF CHEMICAL ENGINEERING

SHIV NADAR

INSTITUTION OF EMINENCE DEEMED TO BE
UNIVERSITY
DELHI NCR

WHAT IS CHEMICAL ENGINEERING?

- Chemical Engineering deals with chemical processes and products.
- Chemical engineering applies principles of chemistry, physics, biology and mathematics.
- Department offers courses and research opportunities in process design, materials science, nanotechnology, biochemical engineering, and energy production.

ABOUT THE DEPARTMENT:

- Department of Chemical Engineering was established in 2013.
- Committed to providing high-quality education and preparing students for leadership roles.
- Renowned faculty members are engaged in cutting-edge research and innovative approaches.
- State-of-the-art laboratories, advanced equipment, and modern facilities for a hands-on learning experience.
- Graduates are well prepared to assume leadership roles in industry, academia, and society.
- Alumni work in top companies and institutions around the world.



DEPARTMENT HIGHLIGHTS:

- As of 2023, the department of Chemical Engineering has 10 faculty members and 70 students at various academic levels.
- Two PhDs have graduated from the department.
- The department has seven well-equipped undergraduate labs in various areas of chemical engineering.
- The department has eight research laboratories funded by SERB, Dassault, CST-UP, and Shiv Nadar IoE.
- The department has received external funding for projects worth 2.7 crores from FIST, CST-UP, SERB, and Dassault.
- The department has organized several seminars and international workshops since 2017.
- Faculty members have published over 70 research articles and proceedings.

DEPARTMENT CURRICULUM AND JOB OPPORTUNITIES:

- The Department of Chemical Engineering offers a comprehensive eight-semester curriculum.
- The curriculum requires a minimum of 160 credits and includes basic and engineering sciences, core courses, and electives.
- The Department of Chemical Engineering offers a range of elective courses that cover various domains of the chemical industry. These include courses in petroleum engineering, paint formulation, energy, and biochemical engineering, among others. In addition, students can choose to study computational fluid dynamics, modeling, and simulation, and other advanced topics that provide them with the skills and knowledge needed to tackle complex engineering challenges.
- Students can tailor their academic journey to their individual interests and career aspirations through elective courses.
- Minor and major projects in the final year focus on the latest research avenues and offer hands-on experience.
- The department encourages students to explore new avenues that push the boundaries of the field.
- The curriculum prepares students for successful careers in the field of chemical engineering.
- In addition, the Department of Chemical Engineering provides students with ample opportunities to engage with industry partners through research projects, internships, and collaborations. These experiences not only provide valuable hands-on experience, but also help students establish valuable connections in the industry, increasing their job prospects after graduation.

DEPARTMENT RESEARCH FOCUS:

- The Department of Chemical Engineering has four thrust research areas: Bioenergy, Microreactors, Waste-to-wealth, and Polymers/soft matter.
- Research activities are supported by state-of-the-art experimental and modeling/simulation facilities.
- Research focuses on sustainable energy production, microreactor development, waste utilization, and polymer/soft matter synthesis.
- Researchers actively work towards addressing pressing challenges in these areas.
- The department is committed to developing new technologies and techniques to advance these fields.

STUDENT CLUBS:

- The House of Habers is the sole student club in the Department of Chemical Engineering.
- It is dedicated to promoting environmental sustainability through various awareness and education campaigns.
- H₂O also organizes seminars and workshops featuring experts in the field of chemical engineering, providing opportunities for students to learn about the latest developments and innovations in the field.
- The club plays an integral role in the student experience, providing opportunities for interaction with peers and faculty, as well as making a positive impact on the environment.



ALUMNI ACCOLADES:

- The Department of Chemical Engineering has a track record of producing successful alumni.
- Past students have achieved prominent positions in various industries, including chemical manufacturing, biotechnology, and academia.
- Of a total of 67 graduates, 49 (73.13%) have secured employment in various industries.
- 14 (20.59%) graduates have gone on to pursue higher studies.
- Three graduates (4.48%) are currently preparing for their next steps.
- A graduate (1.5%) has started successful entrepreneurial venture.
- The department's alumni accolades highlight the quality of education provided and the range of career opportunities available to graduates.

STUDENT PLACEMENT AND HIGHER EDUCATION RECORDS:

- Graduates of the Department of Chemical Engineering have secured placements in prominent companies such as Deloitte, Uflex Chemicals, and Capgemini.
- International companies like New Zealand International Commercial Pilot Academy and Maersk Supply Service have also recruited graduates of the department.
- Graduates also work in successful ventures, such as Trashnet, Katharos, Fabrik, and E-Squared LLP.
- Graduates have pursued higher education in prestigious institutions such as the Technical University of Delft and New York University.
- Renowned Indian institutes such as IIT BHU and IMT Ghaziabad have also enrolled graduates of the department.
- Other notable institutions include the Medizinische Fakultät Mannheim der Universität Heidelberg in Germany, the Goa Institute of Management in India, and the Energy Institute in Bangalore.
- Overall, the Department of Chemical Engineering provides graduates with a wide range of placement opportunities and options for pursuing higher education.

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