



GSFC
UNIVERSITY
EDUCATION RE-ENVISIONED

B.Tech. **CHEMICAL ENGINEERING**



GSFC UNIVERSITY
SCHOOL OF TECHNOLOGY



I AM PROUD
OF MY UNIVERSITY

SCHOOL OF TECHNOLOGY
Department of Chemical Engineering

About the Department:

GSFC University was established in December 2014 as a CSR initiative of GSFC Ltd. through the GSFC Education Society under the Gujarat Private Universities Act, 2009. The University is committed to developing future-ready and employable graduates through our unique educational approach.

The Department of Chemical Engineering was introduced in the year 2015, and it offers a well-structured curriculum that blends strong theoretical foundations with industrial applications. Our Student Internship Program (SIP) provides hands-on learning that bridges classroom concepts with real-world operations, while the Faculty Internship Program (FIP) keeps our faculty strongly aligned with current industry trends.

The Department of Chemical Engineering also provides hands-on training in areas such as **Process modelling and simulation, Reaction engineering, Chemical Engineering Thermodynamics**, and computational tools such as **ASPEN Plus and MATLAB**.

Program Highlights:

- **Industry-Integrated Learning:** A unique Medical College-inspired model that provides students with internships after every semester through strong collaboration with **more than 900+industries**.
- The institution offers **state-of-the-art laboratories** in **Mass Transfer, Heat Transfer, Fluid Mechanics, Instrumentation, and Process Control**, equipped with advanced experimental facilities. These laboratories provide a **dynamic environment for experiential learning and the development of industry-ready engineering competencies**.
- **Faculty Excellence:** A distinguished faculty team comprising **academicians, industry experts as visiting faculty, and Professors of Practice**. Their extensive experience in **leading large-scale chemical complexes and executing projects with exemplary safety and operational standards** enriches the learning ecosystem with strong industry relevance.
- **Research & Innovation:** A strong emphasis on **computational modeling and experimental research, supported by strategic collaborations with leading industries and research organizations**, fostering innovation and solution-oriented engineering research.
- **Global Exposure:** Access to **international academic pathways, AIChE student chapter engagement, and global collaborations**, equipping students with a strong international perspective and professional network
- **Capstone Projects-**A full-semester, industry-driven capstone project in the final year enables students to address real-world engineering challenges, strengthening their analytical thinking, problem-solving abilities, and practical engineering skills.

Program Objectives:

Graduates of Chemical Engineering at GSFC University will:

- Establish themselves as competent professionals in chemical, process, energy, and allied industries.
- Drive industrial growth and technological advancement through design, optimization, and management.
- Uphold ethical values, sustainability principles, and safety standards while addressing societal responsibilities.
- Excel in multidisciplinary environments with strong communication, teamwork, and leadership skills.
- Pursue lifelong learning through higher studies, certifications, research, and entrepreneurship.



Academic Infrastructure:

Cutting-Edge Laboratories

1. Computer-Aided Design Lab with Aspen Plus and Chemcad Software
2. Mass Transfer Operations Lab
3. Mechanical Operations Lab
4. Chemical Reaction Engineering Lab
5. Heat Transfer Operations Lab
6. Fluid Flow Operations Lab
7. Instrumentation & Process Control Lab
8. Chemistry Lab



Faculty Development & Research

Faculty members are actively engaged in publishing research in reputed international and national journals, collaborating with industry and R&D institutes, and continuously upgrading their expertise through advanced training programs. A unique feature of GSFC University is the **mandatory annual 80 hours of industrial training for all faculty members**, ensuring they remain aligned with evolving industry practices and next-generation technologies.

Career Opportunities

Chemical Engineering graduates from GSFC University are highly sought after across diverse sectors:

- **Core Industries:** Chemicals, petrochemicals, oil & gas, refineries, pharmaceuticals, fertilizers, specialty chemicals, agro-industries, consulting firms.
- **Emerging Fields:** Renewable energy, materials science, biotechnology, environmental engineering, and sustainable technologies.
- **Global Opportunities:** Roles in design, R&D, quality assurance, automation, and process optimization worldwide, with potential involvement in cutting-edge projects such as **carbon capture, utilization, and storage (CCUS)**.

Why Choose GSFC University?

- The only university offering an internship model after every semester, ensuring students are industry-ready.
- Strong patronage of GSFC Ltd. and collaborations with leading chemical companies and organizations.
- Hands-on learning through internships, industry projects, and research exposure.
- Highly qualified faculty with rich industrial experience.
- Advanced laboratories and computational facilities.
- Vibrant student community fostering holistic personality development.
- Proven track record of placements and higher education opportunities.
- Modern hostel facilities for boys and girls with premium lodging and dining.
- Safe, serene, and lush green campus with two-layer security.
- Wi-Fi enabled campus, Comprehensive facilities including sports complexes, gymnasium, auditorium, conference halls
- State-of-the-art library.



Students Achievement:

Students of the Department of Chemical Engineering actively participate in academic, technical, and professional development activities that enhance their industry readiness and leadership skills.

- **AICHE Student Chapter Activities:** The AIChE GSFC University Student Chapter regularly organizes technical seminars, poster presentations, workshops, and guest lectures by industry experts.
- **Industrial Study Tours:** The department organizes industrial visits to major chemical, fertilizer, pharmaceutical, and petrochemical industries, providing students with first-hand exposure to large-scale process operations and plant safety practices.
- **Technical Competitions & Events:** Students actively participate in national technical festivals, conferences, and innovation challenges, strengthening their problem-solving and analytical skills.
- **Entrepreneurship & Innovation:** Students are encouraged to explore startup ideas and participate in innovation programs, fostering entrepreneurial thinking and sustainable technological solutions.
- **Skill Development:** Training in computational tools such as **ASPEN Plus, MATLAB, and process simulation software** enhances students' capabilities in process design and optimization.

Placement Highlights

- Consistently achieving around **80% on-campus placements**, our Chemical Engineering graduates secure competitive packages aligned with current industry standards in leading chemical and process industries such as Reliance Industries, GNFC, GSFC Ltd, Deepak Nitrite, Atul Ltd., Alembic Pharmaceuticals, Linde, Inox Air Products, L&T, etc.
- Students are recruited in roles such as **Graduate Engineer Trainee (GET), Process Engineer, Production Engineer, Quality Engineer, and Operations Engineer.**

Alumni Success & Global Presence

Graduates of the **Department of Chemical Engineering at GSFC University** are successfully pursuing higher education and professional careers across the globe. Alumni have secured admissions to **renowned international universities** such as **University of Texas (USA), University of Windsor (Canada), University of Sheffield (UK), and University of Adelaide (Australia)**, where they are pursuing **Master's and Ph.D. programs in Chemical Engineering and related interdisciplinary fields.**

Several graduates have also advanced their careers through **MBA programs at prestigious Indian Institutes of Management (IIMs)**, transitioning into leadership roles in consulting, technology, and industrial sectors.

Today, our alumni are working and studying across **USA, Canada, UK, Germany, Australia, and India**, reflecting the department's strong foundation in **industry-integrated learning, research exposure, and practical engineering skills.**



Internship & Major Recruiters

The department follows a unique semester-wise internship model, providing students with hands-on industry exposure after every semester. Through collaborations with various industries, students gain practical experience in plant operations, process safety, instrumentation, and production management. This continuous industry engagement significantly enhances students' employability and professional competence.



📍 **Contact Admissions Cell** GSFC University – School of Technology
Department of Chemical Engineering Vadodara, Gujarat
🌐 www.gsfcuniversity.ac.in (gsfcuniversity.ac.in in Bing)



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