CENTRE FOR CAREER DEVELOPMENT
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

CHEMICAL ENGINEERING

Batch of 2027 | Department Placement Brochure



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INSTITUTE OVERVIEW

About IIT Guwahati

Established in 1994, Indian Institute of Technology Guwahati is the sixth member of the IIT fraternity and one of India’s premier institutions for higher education, research, and innovation.

Within a short span, the Institute has emerged as a global centre of excellence in science, technology, management, and design. The picturesque campus spans 285 hectares on the northern bank of the Brahmaputra River, approximately 20 km from the heart of Guwahati city. Surrounded by scenic hills and open spaces, it offers a perfect environment for learning, research, and holistic development.

IIT Guwahati offers a wide array of academic programmes including B.Tech., B.Des., BSc (Hons), M.Tech., M.Des., M.Sc., MBA, M.A., MS(R) and Ph.D. across 11 departments, 9 interdisciplinary centres, and 5 schools, covering major disciplines in engineering, science, humanities, healthcare, and management.

The Institute has built world-class infrastructure and houses state-of-the-art laboratories and National Centres of Research that support cutting-edge research. Students are encouraged to take up interdisciplinary coursework, pursue minor degrees, and choose from a rich variety of open and interdepartmental electives. IIT Guwahati has signed MoUs with top international universities, facilitating semester exchanges and summer internships, thereby broadening students' global exposure. Our students regularly intern at leading global firms and research institutions, gaining invaluable real-world experience.

Ranked among the top 100 world universities under 50 years by Times Higher Education (THE), IIT Guwahati continues to excel globally. The Institute was ranked 42nd globally in 'Research Citations per Faculty' and 344th overall in QS World University Rankings.



LEADERSHIP

Director’s Message



Indian Institute of Technology Guwahati was established in 1994 by an Act of Parliament. The academic programme started with 65 students in three undergraduate programmes in 1995. The institute is growing steadily and the total number of students in eleven departments, nine academic centres and five schools in numerous undergraduate and postgraduate programmes is now around 8600.

The institute has excellent infrastructure for the all round development of its students.IIT Guwahati continues to maintain its superior position in various International and National Rankings. IIT Guwahati secured the 8th position among the top engineering institutions in India in the NIRF 2025 Rankings, released by the Ministry of Education.

Additionally, IIT Guwahati has been ranked as the 11th best university in the country. IIT Guwahati has been ranked 2nd in the 'Swachhata Ranking' conducted by the Govt. of India. IIT Guwahati has been ranked as the topranked university in 2019 for IT developers by HackerRank in the Asia-Pacific region. IIT Guwahati gained 42 position globally in the 'Research Citations per Faculty' category and overall 344 rank in the QS World University Rankings 2025 released recently.

With Best Wishes,

Prof. Devendra Jalihal
Director, IIT Guwahati

Also, IIT Guwahati ranks 6th globally in Sustainable Development Goal 7 (Affordable and clean energy) of the Times Higher Education Impact Rankings 2023.

The institute has a very good central library, which provides library and information services to support teaching, learning, and research activities by creating state-of-the- art facilities. It is housed on a four-storey building having a floor area of about 7500 sq. meter. Inhouse services of the library are fully computerised and wi-fi facility is provided within the library building for connecting to the internet and accessing the Institute's electronic resources.

Because of the excellent performance of the students of IIT Guwahati in all the fields of study and research, guided by the dynamic faculty members and with the full support of the non-teaching employees, IIT Guwahati could feature in the coveted list of young universities (under 50 years of age) of the world selected by the Times Higher Education (THE) magazine. IIT Guwahati is the only Indian entry to this elite list. I cordially invite all prospective employers to visit IIT Guwahati and to participate in the on-campus placement and internship processes.

DEPARTMENT OVERVIEW

About the Department

The Department of Chemical Engineering at IIT Guwahati, established in 2002, offers B.Tech., M.Tech., and Ph.D. programmes. It currently has 360+ B.Tech., 110+ M.Tech., and 200+ Ph.D. students. The M.Tech. programme began in 2004 with Petroleum Refinery Engineering and, since 2011, offers four specializations Petroleum Science & Technology, Materials Science & Technology, Computer Aided Process Engineering, and the International Joint M.Tech. Degree in Food Science & Technology.

The department hosts undergraduate laboratories for fluid mechanics, mechanical operations, process control, mass transfer, heat transfer, and reaction engineering. These facilities provide hands-on training with software including Dymola, ASPEN Plus, Mathematica, ChemCAD, ANSYS Fluent, COMSOL Multiphysics, and Gaussian.

The department also houses the Centre for Sustainable Polymers (Sus-Pol), funded by the Ministry of Chemicals and Fertilizers, Government of India. Faculty expertise spans traditional and interdisciplinary domains including petroleum engineering, nanotechnology, bio-engineering, complex fluids, and molecular simulations. The department is committed to high-quality teaching and research, with alumni holding positions in both academia and industry.



LEADERSHIP

Head of Department's Message



Prof. Subrata Kumar Majumder
Head of Department · Chemical Engineering

Since its inception in 2002, the Department of Chemical Engineering at IIT Guwahati has rapidly evolved into a dynamic centre of innovation, offering B.Tech., M.Tech., and Ph.D. programmes. The M.Tech. programme currently offers four specializations: Petroleum Science & Technology, Materials Science & Technology, Computer Aided Process Engineering, and the International Joint M.Tech. Degree in Food Science & Technology. Our faculty are deeply engaged in teaching and research across catalysis, reaction engineering, adsorption, photocatalysis, water valorization, fluid dynamics, microfluidics, polymer processing, molecular simulations, advanced separation technologies, and semiconductor materials.

The department benefits from shared, institute-level infrastructure, including high-performance computing and advanced research facilities, along with strong interdisciplinary collaboration with other departments and centres. Our research ecosystem is further strengthened by the Centre for Sustainable Polymers (Sus-Pol) and active collaboration with the Centre for Nanotechnology, providing access to specialized facilities and enabling multidisciplinary research. These collaborations have expanded our work across sustainable materials, nanotechnology, energy, environmental engineering, and advanced materials.

Our students and faculty actively participate in professional and technical activities through organizations such as the Indian Institute of Chemical Engineers (IIChE), Society of Petroleum Engineers (SPE), and Federation of Indian Petroleum Industry (FIPI). These engagements provide valuable opportunities for technical learning, industry interaction, competitions, workshops, seminars, and professional development. The department has also made significant contributions to the Technology Incubation Centre (TIC) at IIT Guwahati, supporting technology development, innovation, entrepreneurship, and the translation of research into practical applications.
Our academic and research excellence is reflected in our strong performance in global rankings. IIT Guwahati is ranked 334th globally in the QS World University Rankings 2026, while Petroleum Engineering is placed in the 51–100 band globally in the QS World University Rankings by Subject, 2026.

With this foundation of academic depth, research excellence, innovation, and professional engagement, we warmly invite industry leaders, researchers, and collaborators to connect with us. Together, let us translate knowledge and research into impactful chemical engineering solutions for society and industry.

STUDENTS

Programmes Offered & Student Strength

Bachelor of Technology (B.Tech)

ADMISSION VIA JEE ADVANCED

The **eight-semester B.Tech. programme in Chemical Engineering** provides students with a strong foundation in fundamental engineering principles while exposing them to **emerging developments and modern applications** in the field. The curriculum offers a **multidisciplinary learning experience**, encompassing **Humanities, Computer Science, Mechanical Engineering, and Chemical Engineering**, complemented by **laboratory courses** that provide hands-on experience in experimental techniques, process operations, and engineering analysis.

Master of Technology (M.Tech)

ADMISSION VIA GATE

The department offers four specializations in the M.Tech. degree course (since 2011), viz. **(1) Petroleum Science and Technology (2) Materials Science and Technology (3) Computer Aided Process Engineering** and **(4) International Joint M.Tech Degree in Food Science and Technology.** The Master's programme follows a four-semester structure, with advanced core Chemical Engineering and specialization courses in the first two semesters.Semesters III and IV are dedicated to one year of thesis work involving both fundamental and applied research.

Doctor of Philosophy (PhD)

ADMISSION VIA GATE & INTERVIEW

The doctoral programme requires a minimum necessity of taking four course work for master (M. Tech.) degree holder and six course work for bachelor (B. Tech.) degree holder in the first two semesters. After completing the coursework, doctoral students must clear the Ph.D. comprehensive examination before proceeding with their research work. The doctoral programme has a maximum duration of approximately six years.

B.TECH	M.TECH	PHD SCHOLARS	TOTAL STUDENTS
91	64	34	189

Curriculum Highlights — B.Tech. Chemical Engineering

DEPARTMENT CORE

Chemical Engineering

- Chemical Engineering Fundamentals
- Chemical Process Calculations
- Chemical Engineering Thermodynamics
- Fluid Mechanics
- Heat Transfer
- Mass Transfer – I
- Mass Transfer – II
- Mechanical & Solid-Fluid Operations
- Chemical Reaction Engineering – I
- Chemical Reaction Engineering – II
- Transport Phenomena
- Process Control & Instrumentation
- Process Equipment Design
- Process Safety
- Chemical Process Technology
- Process Engineering & Economics
- Numerical Methods

ELECTIVES

Advanced & Interdisciplinary

- AI & Machine Learning in Chemical Engineering
- Computer Aided Applied Optimization
- Refinery Process Design
- Computational Fluid Dynamics
- Energy Resources
- Advanced Process Control
- Enhanced Oil Recovery
- Fluidization Engineering
- Composite Materials
- Petroleum Chemistry
- Polymer Science & Technology
- Consumer Chemistry
- Green Chemistry & Technology
- Polymer Soft Lithography
- OOPs & Data Structures
- Introduction to Deep Learning
- Blockchain Science and Technology

LABS · PROJECT

Hands-on Learning

- Chemistry Lab
- Physics Lab
- Basic Electronics Lab
- Programming & Data Structures Lab
- Fluid Mechanics Lab
- Heat Transfer Lab
- Numerical Methods Lab
- Mass Transfer Lab
- Mechanical & Solid-Fluid Operations Lab
- Reaction Engineering Lab
- Process Control Lab
- Computer Aided Process Engineering Design
- Process / Design Projects
- B.Tech Project (BTP)
- Industry-oriented problem solving
- Technical communication & presentation

2025 curriculum: 8 semesters · 282 credits · Department Core 131 · Department Electives 36 · B.Tech Project 24

Curriculum Highlights — M.Tech. Chemical Engineering

COMMON ADVANCED FOUNDATION

Advanced Transport Phenomena · Computer Aided Numerical Methods · Advanced Thermodynamics · Advanced Reaction Engineering · Scientific Communication · Electives · Project I & II

CAPE
Computer Aided Process Engineering

- Applied Statistics for Chemical Engineers
- Process Modelling & Simulation
- Process Modelling & Simulation Laboratory
- Multiscale Modelling & Simulation
- AI & Machine Learning in Chemical Engineering
- Advanced Process Control
- Computational Fluid Dynamics
- Optimization Techniques
- Computer Aided Applied Optimization
- Mathematical Methods in Chemical Engineering
- Computing in Chemical & Petroleum Engineering
- Process Intensification & Integration
- Nonlinear Bifurcation Analysis

PST
Petroleum Science & Technology

- Petroleum Reservoir Engineering
- Petroleum Refinery Engineering
- Petroleum Production Engineering
- Petroleum Laboratory
- Petroleum Reservoir Simulation
- Refinery Process Design
- Petrochemicals
- Natural Gas Engineering
- Enhanced Oil Recovery
- Advanced Clean Fuel Technologies
- Energy Resources
- Integration of Refinery & Petrochemical Operations
- CCUS

MST
Materials Science & Technology

- Fundamentals of Material Science & Engineering
- Characterization of Materials
- Smart Materials
- Composite Materials
- Polymer Science & Technology
- Colloid & Interface Science
- Catalysts & Adsorbents
- Membranes
- Fundamentals of Micro-Nano Fluidics & Microfabrication
- Microelectronic Fabrication
- Molecular Simulation
- Applied Rheology
- Polymer Soft Lithography

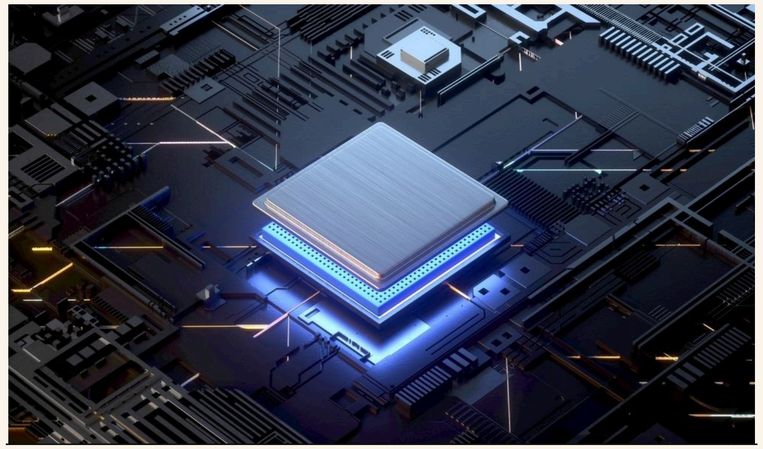
FST
Food Science & Technology

- Advanced Food Processing
- Design Thinking & Scientific Writing
- Food Biochemistry
- Food & Nutritional Biochemistry
- Food Microbiology
- Food Chemistry
- FoodEngineering
- ProductDevelopment in Food industries
- Molecular Life Science: Biological Aspects
- Plant Translational Research
- Joint Global Internship & Seminar
- Food Process Design & Development
- Joint Degree Dissertation

4 specializations · 4 semesters · Semesters I–II: Advanced & Specialization Coursework · Semesters III–IV: Thesis/Project Work

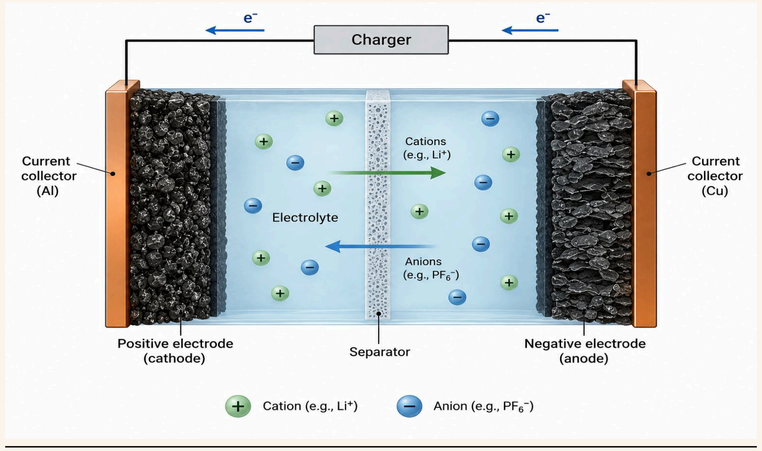
Research

Research Areas



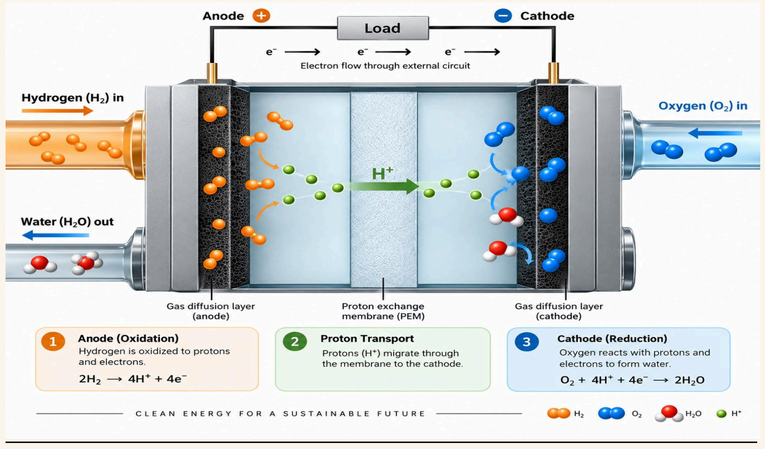
Advanced Materials, Nanotechnology & Semiconductor Devices

Research focuses on the synthesis, characterization and application of **nanomaterials, polymer nanocomposites, MXenes, conductive hydrogels and advanced functional materials**. Emerging research encompasses **semiconductor materials, innovative doping strategies, sensing technologies and functional devices**, including next-generation electronic and optoelectronic applications.



Energy Storage, Conversion & Electrochemical Technologies

Research addresses next-generation technologies for **energy storage and conversion**, including lithium-ion batteries, supercapacitors, proton exchange membrane fuel cells and biomass-derived energy materials. Current work includes **cathode active materials, MXene-based supercapacitors, composite PEMs, solid-state ultracapacitors and sustainable battery recycling**.

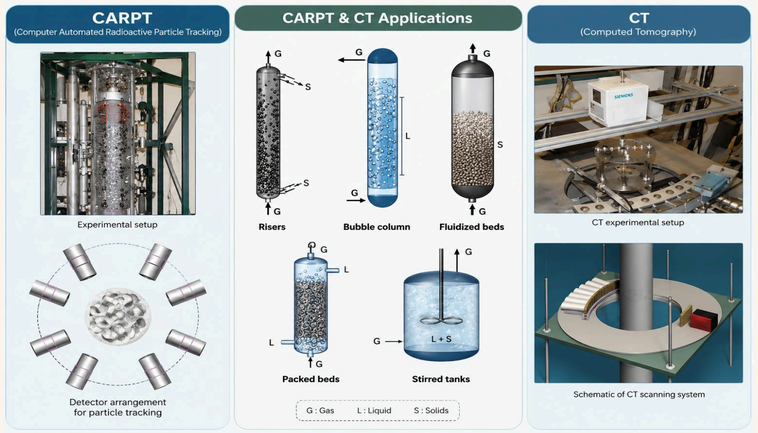


Hydrogen, Carbon Management & Sustainable Energy

Research spans across **Green Hydrogen Production, Hydrogen Fuel Cells, Carbon Capture and Storage, CO_2–Fluid Interactions, Enhanced Oil Recovery and Industrial Energy Efficiency**. The work combines reaction engineering, process analysis, simulation and techno-economic assessment to develop pathways toward **Clean and Low-Carbon Energy Systems**.

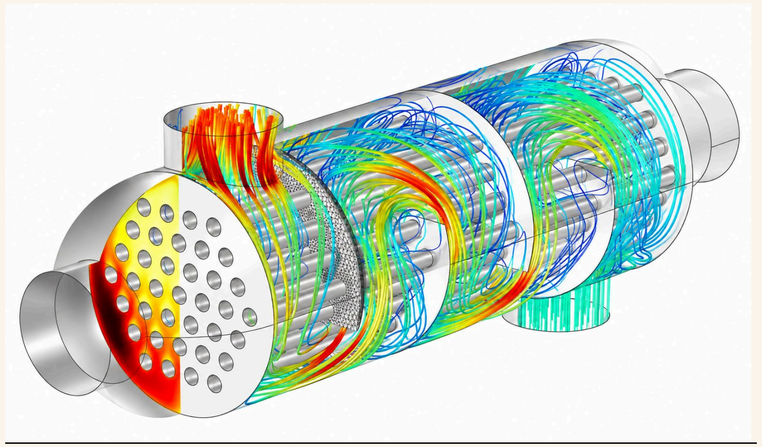
Research

Research Areas



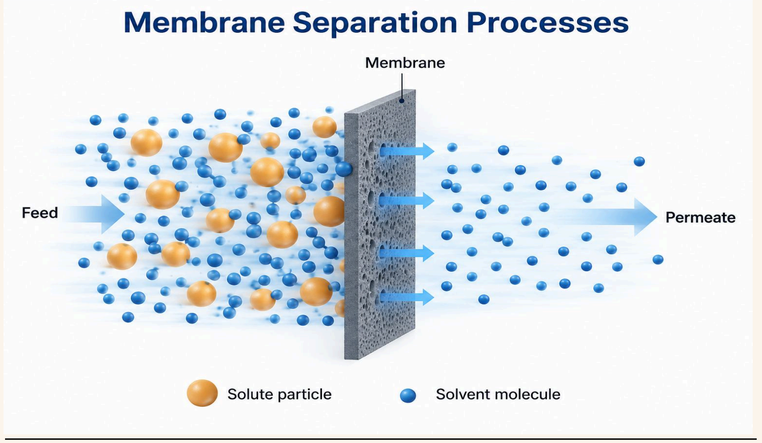
Reaction Engineering, Multiphase Systems & Process Intensification

Research investigates **Chemical Reactors, Multiphase Flows, Fluidized Beds, Gas–Liquid Systems and Intensified Process Configurations** through experimental, computational and modeling approaches. Applications include renewable-energy reactors, PSA systems, bubble-column reactors and fluidized-bed processes.



Computational Fluid Dynamics, Microfluidics and Rheological Studies

Research covers T**ransport Phenomena, Non-Newtonian and Complex Fluids, Rheology, Multiphase Flow and CFD**, with applications ranging from industrial processes to biomedical systems. Emerging directions include **deformable microchannels, physiological flows, point-of-care microfluidics and numerical modeling of polydispersed suspensions**.

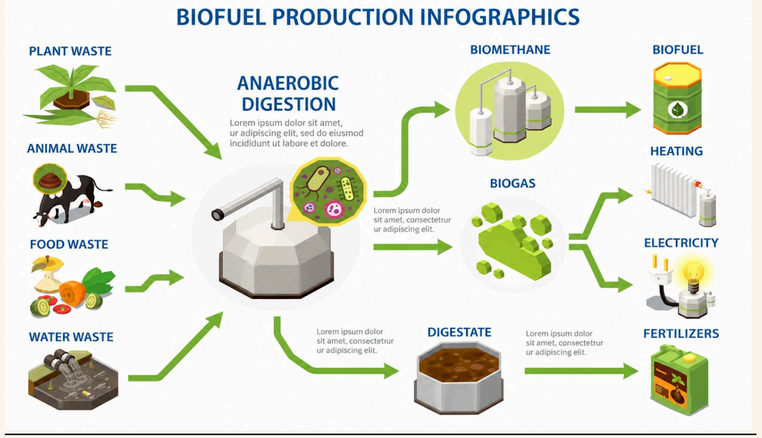


Separation Processes, Membranes & Resource Recovery

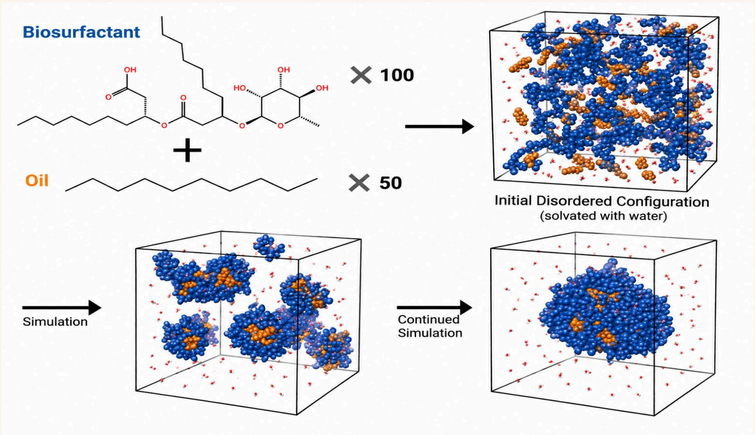
Research encompasses **Membrane Science, Molecular Separations, Adsorption, Extraction and Recovery of Critical Resources**. Current projects include MOF-based gas separation, composite membranes for wastewater treatment, pressure-retarded osmosis–membrane distillation, **Rare-Earth extraction and Recovery of Valuable Metals from spent Lithium-ion Batteries.**

Research

Research Areas







Biomass, Biofuels & Circular Biorefinery

Research explores the **Sustainable Conversion and Valorization of Agricultural, Food and Aquatic Biomass into Fuels, Chemicals and Value-Added Products**. Areas include Biomass Pyrolysis, Gasification, Co-Liquefaction, Levulinic Acid Production.

Artificial Intelligence, Machine Learning & Data-Driven Process Engineering

Application of **AI/ML, Data-Driven Modeling** and **Computational Methods for Process Optimization**, Energy Assessment, Property Prediction, **Environmental Monitoring and Intelligent Process Design.**

Molecular Modeling, Simulation & Data-Driven Engineering

Research integrating **Molecular Simulations, Computational Modeling, CFD and Data-driven** approaches for understanding and **Optimizing** Chemical Engineering Systems across **Molecular, Micro- and Process Scales.**

INFRASTRUCTURE

Laboratories & Facilities



Analytical & Characterization Laboratory

A state-of-the-art facility for **Chemical and Material Characterization**, equipped with **GC, HPLC, FTIR, BET, DSC, TGA, XRD, AAS**, **Particle-Size Analyser, Rheometer, Tensiometer, Potentiosta**t, and other advanced analytical tools.



Computer Centre

The Department's dedicated **Computer Centre** provides a range of advanced software platforms, including **Aspen Plus, CMG, MATLAB, Origin, Gaussian, Avogadro, and Dymola,** supporting computational modelling, simulation, and process engineering research.

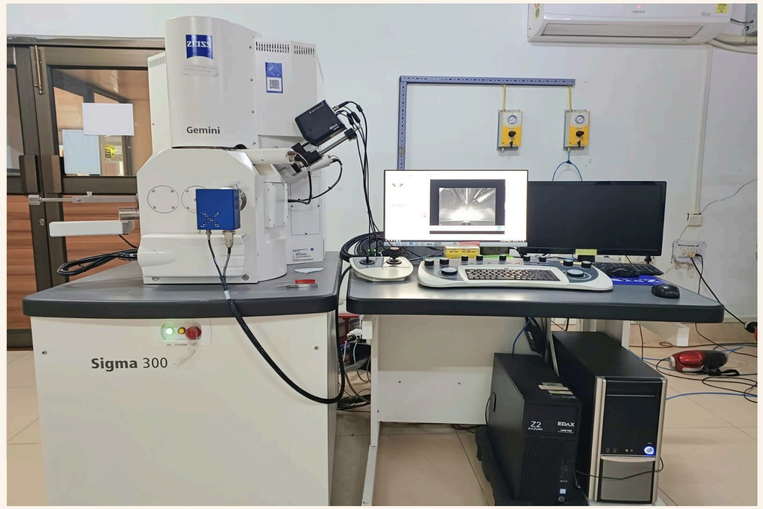


Petroleum Laboratory

The **Petroleum Laboratory** provides hands-on training in the Characterization and Analysis of Petroleum and Petroleum Products, covering properties such as **Flash and Fire points, Smoke point, vapor Pressure, Viscosity, Cloud and Pour points, and Distillation Characteristics**.

INFRASTRUCTURE

Facility Access and Collaboration







Central Instruments Facility

A state-of-the-art characterization facility housing **26 Sophisticated Analytical Instruments**, including **FESEM-EDS, XRD, BET, DSC-TGA, FETEM, AFM, Raman Spectroscopy and NMR**, supporting advanced research in Chemical and Materials analysis.

Centre for Nanotechnology

Departmental researchers have access to advanced Nanofabrication and Characterization infrastructure, including **ISO-5/ISO-6 Cleanrooms, Lithography, Thin-Film Deposition, FESEM, Electrical and Optical Characterization Facilities**, **Chemical Vapour Deposition, Cryogenic DC Probe Station.**

Centre for Sustainable Polymers

The Centre houses comprehensive infrastructure for **Polymer Synthesis, Characterization, Processing, Testing and Degradation**, with advanced facilities including **GPC, ICP-MS, , Extrusion, Injection Moulding, Thermoforming, Barrier-Property Testing and Computational Polymer Modelling.**

RECOGNITION

Achievements - *Research, Innovation & Academic Engagement*

> Low-Cost Arsenic & Fluoride Removal Technology

IIT Guwahati researchers developed a rapid water-treatment system for removing arsenic and fluoride, with an estimated treatment cost of **₹18–₹58 per 1,000 litres**.



> E-Eye: Rapid Toxicant Detection

IIT Guwahati researchers developed **E-Eye**, a portable device for **rapid detection of arsenic, lead, iron, chromium, fluoride and E. coli in water**, with a device cost of approximately **₹3,500** and testing cost of around **₹2 per sample**.



>International Summer School on Smart Control Systems

Four M.Tech students participated in the **11-day International Summer School on “Smart Control Systems”** at Empress Catherine II Saint Petersburg Mining University, Russia, from **29 June to 11 July 2026**.



RECOGNITION

Achievements - *Student Excellence & Recognition*



Runner-up at HMEL QUEST

2025 · HPCL-Mittal Energy Limited

B.Tech students **Sachin Kumar Sharma** and **Mohd Najmus Saquib**, mentored by Prof. **Dipankar Bandyopadhyay**, secured the Runner-up position at the **HMEL QUEST 2025 Innovation Challenge** for their project focused on sustainable hydrogen production.



Best Theme Presentation

2026 · Federation of Indian Petroleum Industry

The FIPI Student Chapter of IIT Guwahati won the Best Theme Presentation for *"**Emerging Role of AI in Unlocking India's Hydrocarbon Potential**,"* highlighting the application of AI in the hydrocarbon sector.



Winner at Smart India Hackathon

2024 · Ministry of Education

B.Tech students **Kahaan Soni** and **Pulkit Garg** were part of the winning team at Smart India Hackathon, securing **Rank 1** among 25,000+ teams for developing an automated toll system for the **Indian Space Research Organisation** (**ISRO**).



Best Paper Award

2026 · ACMS

M.Tech student **Praneel Bhattacharya** was awarded the **Best Paper Award** at the 2nd International Conference on Advances in Chemical and Materials Sciences for his work on **"Electrohydrodynamic Instabilities and Engulfment Pathways in Ternary Droplet Systems,"** recognized for its scientific excellence and impact.

STUDENT LIFE

Department Activities

1. SPE Symposium on Global Oil & Gas Challenges

16 May 2026

The SPE IIT Guwahati Student Chapter organized a symposium on **geopolitical risks, energy security, operational resilience and the global oil & gas sector**, featuring industry experts and academicians.



2. CCUS & Reservoir Simulation Workshop

14–16 May 2026

A three-day technical workshop provided hands-on exposure to **CCUS, reservoir characterization and CMG-GEM simulation**, with **43 participants from four national institutes**.



3. Industry-Academia Workshop on Advanced Process Control & AI/ML

14–15 February 2026

A two-day workshop provided practical exposure to **advanced process control, MPC, refinery CDU modelling and AI/ML applications**, with sessions by industry experts.

4. PSEE 2026 – Process Safety, Energy & Environment

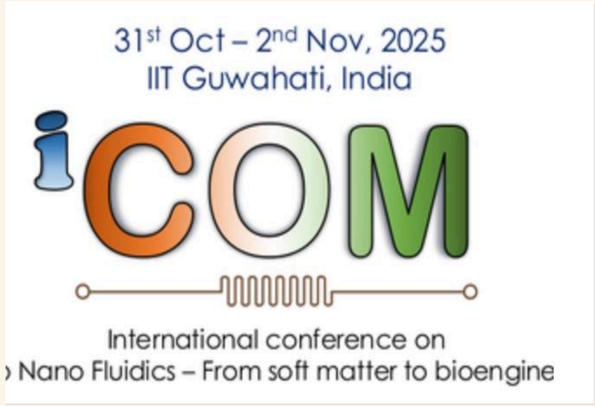
27 February 2026

The symposium brought together **academicians, industry professionals, researchers and students** to discuss advances in **process safety, sustainable energy and environmental technologies**.

5. ICOM 2025 – International Conference on Micro Nano Fluidics

31 October–2 November 2025

IIT Guwahati hosted ICOM 2025, bringing together researchers and experts in **microfluidics, nanofluidics, soft matter and bioengineering**.



PLACEMENTS

Past Recruiters

































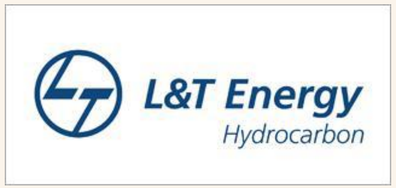




























PEOPLE

Faculty · Professors

NAME · DESIGNATION · SPECIALISATION	EMAIL · WEBSITE
Aloke Kumar Ghoshal Professor · Advanced Separations · Modelling & Simulation · Environmental Control	aloke@iitg.ac.in iitg.ac.in/chemeng
Animes Kr. Golder Professor (HAG) · Photocatalysis · Water Treatment · Remediation	animes@iitg.ac.in iitg.ac.in/chemeng
Ashok Kumar Dasmahapatra Professor · Complex Fluids · Polymer Phase Transitions · Molecular Simulation	akdm@iitg.ac.in iitg.ac.in/chemeng
Chandan Das Professor · Wastewater Treatment · Bioremediation · Membranes	cdas@iitg.ac.in iitg.ac.in/chemeng
G. Pugazhenthi Professor · Membrane Separation · Polymer Nanocomposites · Nanomaterials	pugal@iitg.ac.in iitg.ac.in/chemeng
Mihir Kumar Purkait Professor · Membranes · Advanced Separations · Catalysis · CO_2 Conversion	mihir@iitg.ac.in iitg.ac.in/chemeng
Nanda Kishore Professor · Biofuels · Heat/Mass Transfer · DFT · Non-Newtonian Fluids	nkishore@iitg.ac.in iitg.ac.in/chemeng
Pankaj Tiwari Professor · Energy · Reservoir Engineering · Biomass Conversion · Pyrolysis	pankaj.tiwari@iitg.ac.in iitg.ac.in/chemeng
Prabirkumar Saha Professor · Process Modelling · Optimization & Control · Membranes	p.saha@iitg.ac.in iitg.ac.in/chemeng

NAME · DESIGNATION · SPECIALISATION	EMAIL · WEBSITE
Amit Kumar Professor · Polymer Nanocomposites · Molecular Simulation · Gas Separation	amitkumar@iitg.ac.in iitg.ac.in/chemeng
Anugrah Singh Professor · CFD · Complex Fluid Rheology · Microfluidics · Porous Media	anugrah@iitg.ac.in iitg.ac.in/chemeng
Bishnupada Mandal Professor · Reactive Separations · Membranes · Process Modelling	bpmandal@iitg.ac.in iitg.ac.in/chemeng
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Prabu Vairakannu Professor · Clean Energy · Pyrolysis · Gasification · Carbon Sequestration	v.prabu@iitg.ac.in iitg.ac.in/chemeng

PEOPLE

Faculty · Professors

NAME · DESIGNATION · SPECIALISATION	EMAIL · WEBSITE
Prakash Kotecha Professor · Applied Optimization · Computational Intelligence	pkotecha@iitg.ac.in iitg.ac.in/chemeng
R. Prasanna Venkatesh Professor · Electrochemistry · CMP · Refinery Processes	rprasanna@iitg.ac.in iitg.ac.in/chemeng
Ramagopal V. S. Uppaluri Professor · Process Engineering · Food Systems · Waste-to-Value · AI/ML	ramgopalu@iitg.ac.in iitg.ac.in/chemeng
Subrata Kumar Majumder Professor & Head · Mineral Processing · Energy · Carbon Management · Multiphase Flow	skmaju@iitg.ac.in iitg.ac.in/chemeng
Tapas K Mandal Professor · Micro/Nano Technology · Energy Harvesting · Microfluidics	tapasche@iitg.ac.in iitg.ac.in/chemeng
Vijay S. Moholkar Professor · Bubble Dynamics · CFD · Sono-process Engineering	vmoholkar@iitg.ac.in iitg.ac.in/chemeng

NAME · DESIGNATION · SPECIALISATION	EMAIL · WEBSITE
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