

Laboratories

To support research activities and manage undergraduate and postgraduate program, the Department of Chemical Engineering has 12 laboratories department library with more than 6000 books, 18 international journals, and free internet access. The department of Chemical Engineering has two groups of laboratories, i.e. research laboratories and teaching laboratories.

Research Laboratories

1. Fluid Mechanics and Mixing
2. Process System Engineering
3. Heat and Mass Transfer
4. Chemical Process Reaction and Biomass Conversion
5. Thermodynamics
6. Electrochemistry and Corrosion
7. Biomass and Industrial Waste Treatment
8. Biochemical Engineering
9. Material Technology


Teaching Laboratories


1. Analytical and Organic Chemistry
2. Microbiologic & Physical Chemistry
3. Unit Operation, Computation and Simulation




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DEPARTMENT OF
CHEMICAL ENGINEERING
FACULTY OF INDUSTRIAL TECHNOLOGY AND SYSTEM ENGINEERING
INSTITUT TEKNOLOGI SEPULUH NOPEMBER

Chemical Engineering

Expected program outcome is to be an engineer who are able to change raw materials into valuable products by using physical, chemical, and biological processes in a safe, environmentally friendly and economical way.

Introduction

The faculty of Chemical Engineering was found in 1960. Along with the reorganization in Institut Teknologi Sepuluh Nopember (ITS) Surabaya, the faculty of Chemical Engineering was changed into Department of Chemical Engineering under the coordination of Faculty of Industrial Technology. In 1993, Graduate program (M.Sc) in Chemical Engineering was initiated and has awarding hundreds of Magister Teknik (MT). Since 2001, the department has commenced the Doctoral degree in Chemical Engineering

Career Prospects

Various types of employment opportunities are available for chemical engineers both in public sector as well as the private sector. The jobs areas including manufacturing industries, food processing industries, chemical process industries such as fertilizer, pesticide, speciality chemicals, dyes, dyestuff, paint and lubricants. They are also employed in service industries such as scientific research and development services, particularly in energy and the developing fields of biotechnology and nanotechnology. They are also employed in a variety of manufacturing industries other than chemical manufacturing, such as those producing electronics, photographic equipment, clothing, pulp and paper and even in the aircrafts development.

Faculty Teaching Staff

Department of Chemical Engineering has 39 teaching staffs, i.e. 10 professors, 21 PhDs, and 8 Master degree holders from some well-known universities, both local and abroad.



Degree Programs

Department of Chemical Engineering currently has three programs, i.e. undergraduate (Bachelor), master and doctoral programs. The programs offer overseas as well as Indonesian students an opportunity to study with International standard and excellent curriculum.

BACHELOR OF ENGINEERING

Accredited as "A" by the National Accreditation Board of Higher Education (BAN-PT)
Certified by the ASEAN University Network-Quality Assurance (AUN-QA)
The Indonesian Accreditation Board of Engineering Education (IABEE)

High school graduates who pass the joint admission test are admitted into the undergraduate program. The load of study for the program consists of 144 course credits in 8 semesters period. The 144 credits are composed of 14 credits of common courses, 67 credits of basic engineering courses and 63 credits of major courses. The undergraduates degree in engineering (Sarjana Teknik, ST) is granted to students who have successfully completed all the required courses and a final project.

Joint admission tests :

- Seleksi Nasional Masuk Perguruan Tinggi Negeri (SNMPTN) Undangan & Bidik Misi
- Ujian Tulis Berbasis Komputer (UTBK)
- Program Kemitraan dan Mandiri (PKM)
- International Undergraduate Program (IUP)
- Rekognisi Pembelajaran Lampau (RPL)

MASTER OF ENGINEERING

Accredited as "A" by the National Accreditation Board of Higher Education (BAN-PT)

This is a two-years program. Student enrolled in the program must take courses and thesis equivalent to a total 36 credits. The program offers a speciality in process technology and consists of regular and international graduate program. Bachelor degree holders who pass the admission test are admitted into the program

DOCTOR OF ENGINEERING

Accredited as "A" by the National Accreditation Board of Higher Education (BAN-PT)

The doctoral program is offered with 42 credits load beyond master degree program in 6 semesters. Research activities culminate in mandatory publication of one paper in an reputed international journal and a dissertation that must be defended orally in front of an examining committee.

ST

SE

SD



Academic Collaboration

Department of Chemical Engineering has conducted various academic collaboration in the double degree, joint degree, student/faculty exchange, joint supervision and research collaboration with number of well-known universities and research institution abroad, such as :

- Kumamoto University (Japan)
- Hiroshima University (Japan)
- National Taiwan University of Science and Technology (Taiwan)
- National Cheng Kung University (Taiwan)
- National Chung Hsing University (Taiwan)
- Universiti Malaysia Pahang (Malaysia)
- The Hague University (Netherlands)
- Technische Universiteit Delft (Netherlands)
- University of Groningen (Netherlands)
- University of New South Wales (Australia)
- Curtin University (Australia)
- Aix-Marseille Université (France)
- Université de Technologie de Compiègne (France)
- École Nationale Supérieure des Ingénieurs en Arts Chimiques et Technologiques (France)

