

***MERSİN UNIVERSITY**



*** DEPARTMENT OF CHEMICAL ENGINEERING ***

MERSİN UNIVERSITY, FACULTY OF ENGINEERING, F BLOCK,
DEPARTMENT OF CHEMICAL ENGINEERING, ÇİFTLİKKÖY
CAMPUS, 33343, YENİŞEHİR/MERSİN

University Website

<http://www.mersin.edu.tr/akademik/muhendislik-fakultesi/bolumler/kimya-muhendisligi-bolumu>

Facebook (Mersin Chemical Eng.)

<https://www.facebook.com/profile.php?id=100009255375997>



❖ Mersin University Faculty of Engineering, Department of Chemical Engineering was established on 27.05.2002 as a student-free department.

❖ Our department has started accepting undergraduate students since the 2008-2009 academic year.

❖ The Department of Chemical Engineering granted its first undergraduate diplomas in the 2011-2012 academic year. **It granted its thirteenth undergraduate diplomas in the 2023-2024 academic year.**



HISTORY



- ❖ Our department accepts students with the **MF4 score** type through the central exam conducted by ÖSYM.
- ❖ Our department also accepts students through **lateral transfer, vertical transfer, double major and minor programs**.
- ❖ The Chemical Engineering program is a **formal education** and the language of education is **Turkish**.

Table. Information on Undergraduate Students' ÖSYS Ranks

Year	Quota	Number of Students	ÖSYS Score		ÖSYS success degree	
			Lowest	Highest	Lowest	Highest
2023	30	30	408.432	335.562	100.530	220.298
2022	30	30	360.814	311.995	157.837	258.899
2021	31	24	246.860	182.178	430.561	1.101.624
2020	31	15	323.717	280.678	381.648	754.326
2019	31	22	313.417	259.358	393.510	915.146
2018	30	14	248.501	288.323	298.137	180.056
2017	30	23	245.121	295.083	239.653	147.759
2016	50	27	240.334	294.936	238.371	144.449
2015	41	41	241.828	286.471	201.989	126.645
2014	41	41	244.671	286.493	187.341	126.781

STUDENT ADMISSIONS



Chemical Engineering

ÖSYM code	107410542
University type	Public
University	Mersin University
Faculty	Engineering
Score Type	SAY
Payment/Scholarship	Free



OBJECTIVES OF THE DEPARTMENT

As Mersin University Chemical Engineering Department, our goal is;

- ❖ Having acquired skills appropriate for the information and communication age, being entrepreneurial, innovative, active in research and development, committed to ethical values and working in their field or other fields of their choice using the Chemical Engineering background provided by the program,
- ❖ To train engineers who understand the importance of lifelong learning and who constantly improve themselves.



OCCUPATIONAL DESCRIPTION

❖ The first definition that comes to mind for Chemical Engineering is; as the name suggests, the application of knowledge from basic sciences, especially chemistry, with an engineering approach. However, the first literary definition was made by the American Institute of Chemical Engineers (AIChE) in 1950. According to the institute:

“Chemical Engineering is the application of knowledge of mathematics, chemistry and other natural sciences, acquired through study, experience and practice, to decisions that will develop ways to provide economical use of matter and energy for human benefit.”

❖ In the 1970s and 1980s, this definition was renewed and became as follows:

“Chemical Engineering is the branch of science that studies the changes that occur in the composition, state and energy of matter and the devices that cause physical and chemical changes in matter, in terms of engineering, economics and their relationships with humans.”

❖ The definition of 21st century Chemical Engineering is:

“A versatile branch of engineering that deals with the development and implementation of the most economical and environmentally friendly processes at micro and macro levels, in which the chemical structures, energy contents and/or physical states of materials are changed.”

Due to their versatile structure, Chemical Engineers have a wide range of work areas. A Chemical Engineer can work in **private and public institutions in different sectors**, taking on various responsibilities:



Related Sectors:

- ✓ Pharmaceutical Sector
- ✓ Ceramic Sector
- ✓ Environmental Sector
- ✓ Textile Sector
- ✓ Food Sector
- ✓ Paint Sector
- ✓ Building Materials Sector
- ✓ Automotive Sector
- ✓ Fertilizer Sector
- ✓ Petrochemical Sector
- ✓ Plastic and Composite Materials
- ✓ Metal and Coating Sector
- ✓ Glass Industry
- ✓ Defense Industry
- ✓ Water and Wastewater



Areas of responsibility:

- ✓ Production
- ✓ Research and Development (R&D)
- ✓ Production Development (P&D)
- ✓ Design and Optimization
- ✓ Business Management
- ✓ Quality Management
- ✓ Occupational Safety
- ✓ Sales and Marketing



JOB OPPORTUNITIES FOR DEPARTMENT GRADUATES

- ❖ Students who complete the Chemical Engineering education program gain the ability to follow the information in their field, use information and communication technologies, solve engineering problems in terms of economy, work safety, quality, environment, ethical values, universal and social dimensions, understand the importance of lifelong learning, and become prone to teamwork.
- ❖ Graduates of the chemical engineering program can work as researchers, designers, project developers and senior managers in all processes that deal with the development and implementation of processes that change the chemical structures, energy contents or physical states of materials, such as the production of minerals, metals, ceramics, polymers, paper and composites, medicine, food, environment and biotechnology.

ACADEMIC, ADMINISTRATIVE AND TECHNICAL STAFF INFORMATION OF DEPARTMENT

- ❖ Mersin University Chemical Engineering Department has an academic staff consisting of **4 Professors, 2 Associate Professors, 3 Assistant Professors, 1 Lecturer and 1 Research Assistant**.
- ❖ There is **1 Chemist** responsible for the department's student laboratories.
- ❖ There is **1 Secretary** who is responsible for making official correspondence regarding the department and carrying out the department's student affairs services.



Prof.
NİMET KARAGÜLLE



Prof.
**BAHADIR KÜRŞAD
KÖRBAHTİ**



Prof.
TONGUÇ ÖZDEMİR



Prof.
AYLA ÖZER



assoc prof
**RÜKAN GENÇ
ALTÜRK**



assoc prof
FERDA GÖNEN



Asst.Prof.
**İSMAİL KUTLUGÜN
AKBAY**



Asst.Prof.
GÜRBÜZ ÇOMAK



Asst.Prof.
ONUR DÖKER



PD Lect.
**DENİZ UZUNOĞLU
DOĞRUYOL**



Rsch Asst.
HASAN ÖRTÜN



**Chemist BUKET
KIRKYAŞAROĞLU**



**data preparation
control operator
FUNDA DENİZ**



RESEARCH AND STUDY TOPICS

Main Research Topics

Adsorption/biosorption/degradation of various pollutants, nanoparticle synthesis/characterization, colorimetric detection studies, hydrogen gas production

Electrochemical technologies, environmental and sustainable processes, chemical reaction, process optimization, mathematical modeling

Polymeric materials, radiation protection, rubber materials, smart polymers

Tissue engineering, biomaterials

Wastewater treatment, adsorption, fermentation, biotechnology

Nanotechnology, liposomes, drug delivery, biosensors

Supercritical fluid technology

Smart polymers, polymeric materials

Analytical methods, condition monitoring and system integration in high pressure-high temperature processes

STUDENT STATISTICS FOR 2023

	quota	Settled	Settlement ed ratio, %	Registrated	Won but not registrated
General	30	31	100	30	1
TUBITAK		-			
Disabled		-			
School's top student	1	-			
Total	31	31			

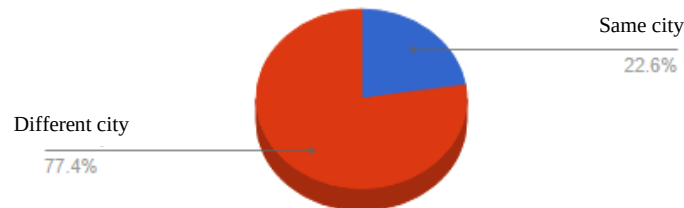
	Settlemented number	Ratio, %
Total	31	100
Mediterranean Region	12	38,7
Eastern Anatolia Region	2	6,5
Aegean Region	2	6,5
Southeastern Anatolia Region	6	19,4
Central Anatolia Region	4	12,9
Black Sea Region	1	3,2
Marmara Region	4	12,9

Number of students by grades

Academic year	Grade			
	1.	2.	3.	4.
2023-2024	57	53	51	100
2022-2023	54	48	38	42
2021-2022	45	28	36	27
2020-2021	53	31	37	57
2019-2020	48	27	35	15
2018-2019	31	56	55	77
2017-2018	31	58	55	91
2016-2017	55	59	41	96
2015-2016	47	51	43	92
2014-2015	53	49	42	86

	Number of settlers	Ratio, %	gender
Total	31	100	9 male/22 female
Same city	7	22,6	2 male/ 5 female
Different city	24	77,4	7 male /17 female

Cities where settlers come from



Geographical areas where settlers come from



Total number of preferred candidates

570

Number of candidates applying for a quota

18,4

average preferred rank

11,6

Number of first choice

15

%2,6

Number of first three preferred

57

%10,0

Number of first nine preferred

248

%43,5

Additionally, there are a total of **60 foreign students** in our department.



DEPARTMENTS AND PROGRAMS (UNDERGRADUATE, GRADUATE, DOCTORATE)



Undergraduate Program of Chemical Engineering Department

- ❖ The Department of Chemical Engineering carries out an education plan aimed at educating highly qualified and responsible Chemical Engineers who can successfully use the education they receive in theoretical and applied fields, who can conduct high-level original and qualified scientific studies and research, who can model and manage systems suitable for the needs of the industry, who use their knowledge and experience for the benefit of all humanity, who are beneficial to society, who think modern, creative and positive in light of universal values, who are participatory, committed to ethical values, productive and who represent their country all over the world with the values they create.
- ❖ The program includes compulsory courses related to basic chemical engineering. In addition to compulsory courses in the curriculum, there are elective courses that students are given the opportunity to choose according to their own preferences. Thus, in addition to Mathematics and Science knowledge, graduates who can follow the information in their field, use information and communication technologies, solve engineering problems in terms of economics, work safety, quality, environment, ethical values, universal and social dimensions, understand the importance of lifelong learning, and are prone to teamwork are trained.

(<https://obs.mersin.edu.tr/oibs/bologna/index.aspx?lang=tr&curOp=showPac&curUnit=22&curSunit=320#>)

Graduate Program of Chemical Engineering Department

- ❖ Mersin University, Institute of Science, Department of Chemical Engineering was opened on 27/05/2002 and started postgraduate education in the 2002-2003 academic year. The Department of Chemical Engineering carries out an educational plan aimed at educating highly qualified and responsible Chemical Engineers who can successfully use the education they receive in theoretical and applied fields, can conduct high-level original and qualified scientific studies and research, can model and manage systems suitable for the needs of the industry, use their knowledge and experience for the benefit of all humanity, are beneficial to society, think modern, creative and positive in light of universal values, are participatory, committed to ethical values, productive and represent their country all over the world with the values they create. The program includes graduate courses at the postgraduate level. Thus, it trains graduates who can follow the information in their field, can use information and communication technologies, can solve engineering problems with universal and social dimensions in terms of economy, work safety, quality, environment and ethical values, understand the importance of lifelong learning and are prone to teamwork. (<https://obs.mersin.edu.tr/oibs/bologna/index.aspx?lang=tr&curOp=showPac&curUnit=2&curSunit=815#>)
- ❖ Student quotas have been announced for the PhD program of the Department of Chemical Engineering at the Institute of Science at Mersin University since the 2013-2014 Academic Year. (<https://obs.mersin.edu.tr/oibs/bologna/index.aspx?lang=tr&curOp=showPac&curUnit=2&curSunit=1204#>)

Table. Number of students and graduates by programs

Academic Year	Number of Students			Number of Graduates		
	B	MS	PhD	B	MS	PhD
2023-2024	267	17	8	9	5	1
2022-2023	116	40	8	13	2	2
2021-2022	136	7	3	12	-	1
2020-2021	168	14	3	38	4	1
2019-2020	125	20	6	30	2	1
2018-2019	219	35	10	40	2	-
2017-2018	235	44	13	43	9	1
2016-2017	251	42	12	33	5	-
2015-2016	233	36	9	27	7	-
2014-2015	230	29	5	28	9	-

B: Bachelor's Degree, MS: Master's Degree, PhD: Doctorate Degree



**DEPARTMENTS
AND PROGRAMS
(UNDERGRADUA
TE, GRADUATE,
DOCTORATE)**



In addition to our department's students benefiting from double major and minor programs in other programs, it is possible for students of other majors to benefit from our department's double major and minor programs.

In our department, double major and minor programs as well as courses taken from other institutions/programs and the evaluation of earned credits are carried out within the framework of the “Mersin University Associate and Undergraduate Education and Examination Regulation” (<http://www.resmigazete.gov.tr/eskiler/2016/09/20160910-14.htm>) and the “Principles on Transfer Between Mersin University Associate and Undergraduate Programs, Double Major, Minor and Inter-Institutional Credit Transfer” (<https://kms.kaysis.gov.tr/Home/Goster/67393>) directives.



Lateral Transfer

- ❖ Lateral transfers to our university are evaluated within the framework of the "Mersin University Associate and Undergraduate Education and Examination Regulation". After the lateral transfer quotas of our department are announced on the YÖK website, applications are received in accordance with the determined calendar.
- ❖ After the applications are evaluated by our department's lateral and vertical transfer committee, the course and credit equivalences of the applications that are deemed appropriate are determined and sent to the Dean of the Faculty of Engineering to be announced as main and reserve students.

Vertical Transfer

- ❖ Vertical transfers are limited to the quotas determined with the approval of YÖK, and the adaptation procedures, course and credit equivalences of the candidates who pass the central exam are carried out by the Department Adaptation Commission within the framework of the "Mersin University Course Equivalence and Adaptation Principles" (<https://kms.kaysis.gov.tr/Home/Goster/67382>).



LATERAL /VERTICAL TRANSFER



Information on collaborating universities and departments:

1. Erasmus collaborations

Castilla La Mancha University, Spain

Rovira i Virgili University, Spain

2. Double major / minor information

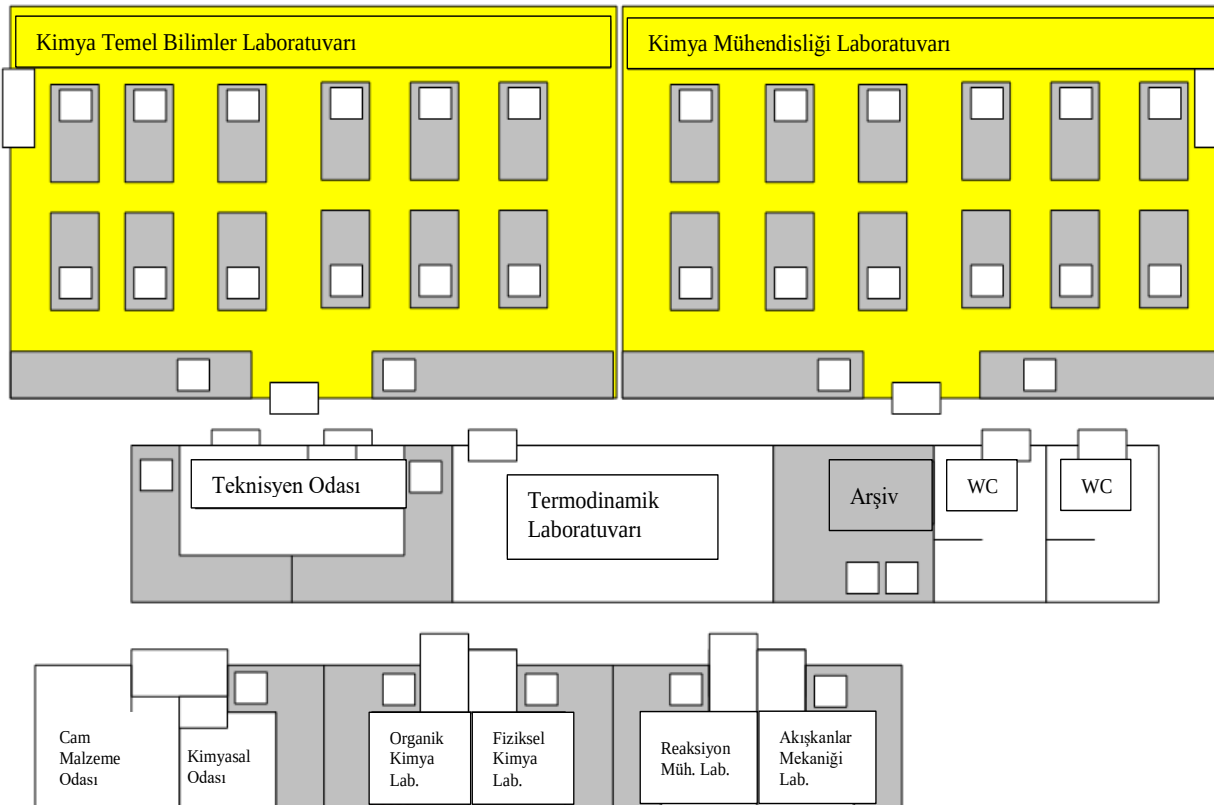
Mersin University: Environmental Engineering, Food Engineering, Mechanical Engineering

Table. Lateral/Vertical Transfer, Double Major, Erasmus, Farabi Exchange Programs Information

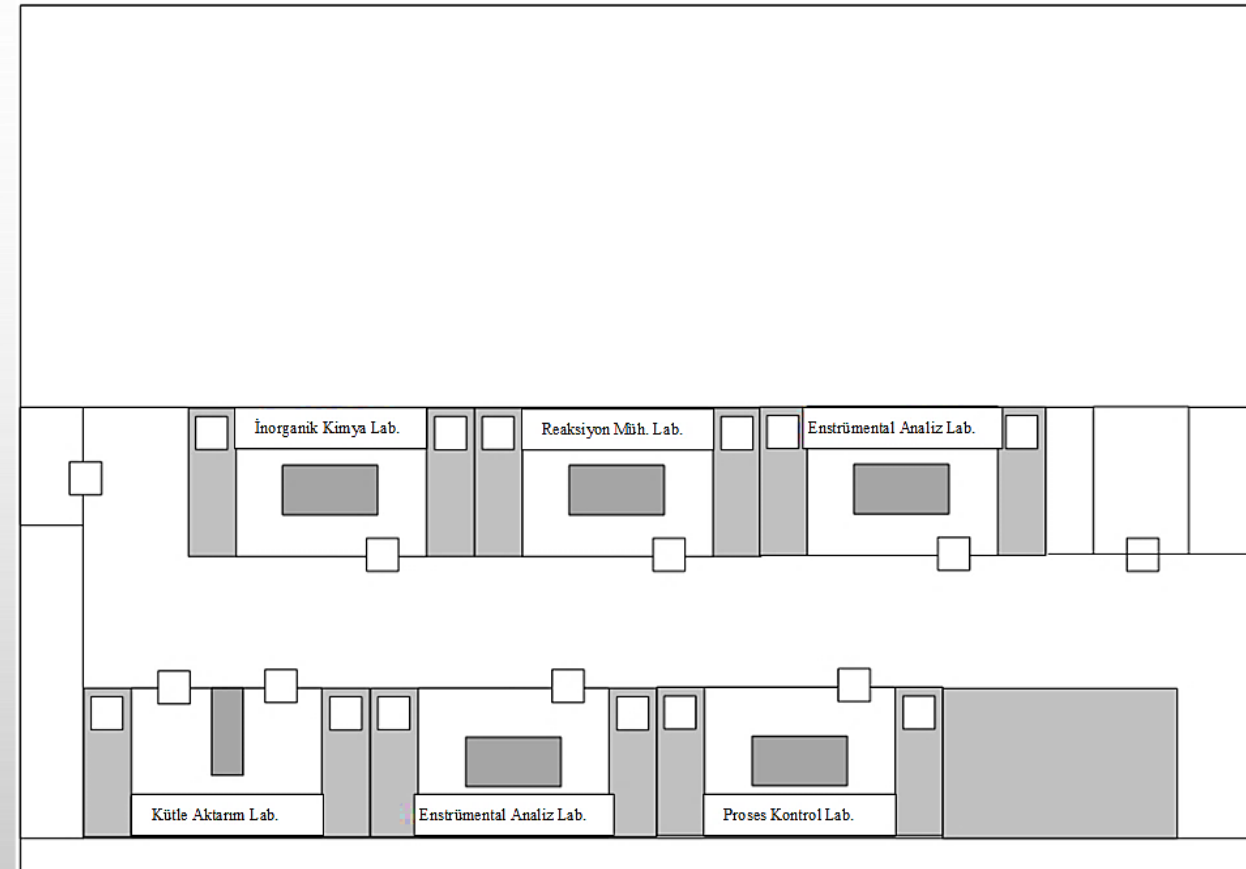
Academic Year	Number of lateral transfer students	Number of vertical transfer students	Number of Students Who Started Double Major in the Program	Number of Students Benefiting from the Erasmus+ Exchange Program	Number of Students Benefiting from the Farabi Exchange Program
2023-2024	6	-	-	-	-
2022-2023	6	4	-	-	-
2021-2022	2	5	1	1	-
2020-2021	2	3	-	-	-
2019-2020	7	5	-	1	-
2018-2019	1	-	-	-	-
2017-2018	10	3	2	1	-
2016-2017	3	5	1	-	1
2015-2016	4	4	-	2	2
2014-2015	1	4	1	1	1

LABORATORY FACILITIES

The department has a total of 14 laboratories, 2 of which are for students and 12 for research activities, as well as archive, glass and chemical rooms. With the **graduation theses and research**, students gain skills such as experiment planning, data analysis and their tendency towards teamwork increases.

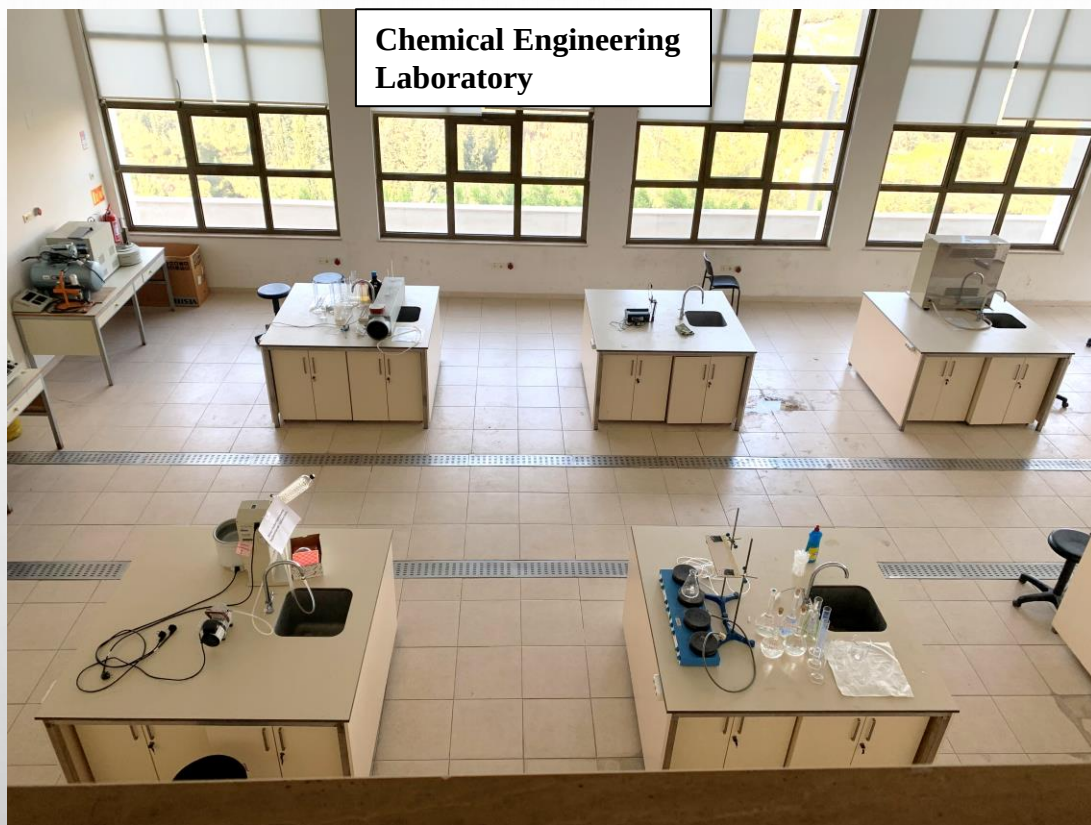


Chemical Engineering Department 2nd Floor Laboratory Layout Plan



Chemical Engineering Department 3rd Floor Laboratory Layout Plan

PHOTOS FROM OUR LABORATORIES



In order for the students of the Department of Chemical Engineering to understand and learn engineering courses practically, applied laboratory courses (**General Chemistry Lab., Physicochemical Systems Lab., Instrumental Analysis Lab., Chemical Engineering Lab. I and II**) are held starting from the first year. There are 2 student laboratories allocated for this purpose in our department. Apart from these, the Chemistry Laboratory of the Technical Sciences Vocational School within our university and the Advanced Technology, Education, Research and Application Center within our university are used according to the need. In the laboratories, the basic measurements that form the basis of Chemical Engineering, analysis methods (**UV-VIS, FTIR, AA, GC, HPLC etc.**) and the Unit operations and process's that a chemical engineer may encounter in business life after graduation (absorption, extraction, distillation, heat exchanger, reaction vessels etc.) are applied to the students. In addition, research projects are carried out within the scope of the Graduation Project course in the final year.

PHOTOS FROM WHITE COAT CEREMONIES

- ❖ For our first year students placed in our department; White Coat Ceremonies are held in partnership with our department and TMMOB Chamber of Chemical Engineers Southern Regional Branch.
- ❖ At the same time, during these ceremonies, our graduate colleagues from the department come together with all our students to share their experiences in their business lives.

2017 White Coat Dressing Ceremony



2021 White Coat Dressing Ceremony



2022 White Coat Dressing Ceremony



PHYSICAL INFRASTRUCTURE

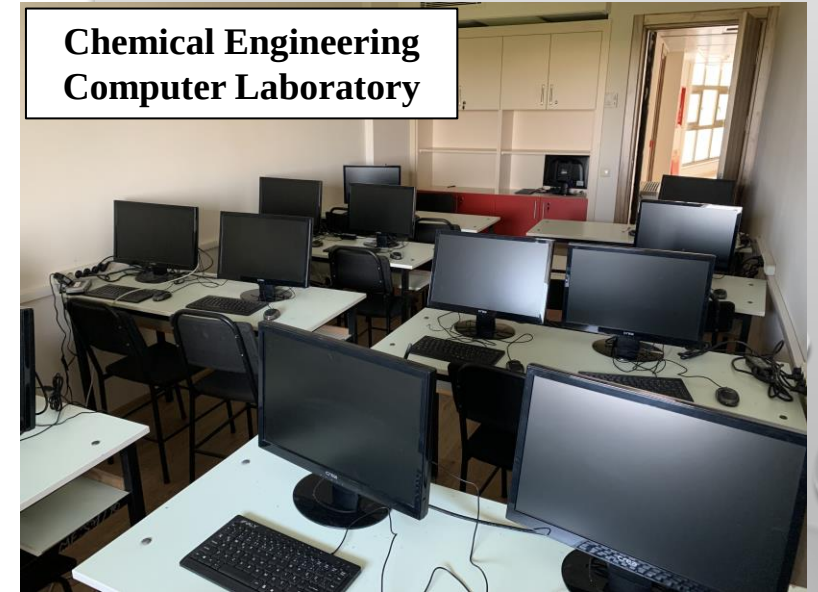
Computer and Informatics Infrastructure

- ❖ Computer skills needed in chemical engineering applications are supported by the Computer Engineering Department (Computer Programming) and the computer laboratory allocated for the common use of the faculty is used. In addition, students can also benefit from the computer laboratory in our department, which has 15 computers, whenever they want.
- ❖ In addition, thanks to the wireless internet access provided by our rectorate both within the department and in the building where the classrooms are located, our students can also access the internet with their personal computers, and thus they can access the databases subscribed by the library and the Library and Documentation Department free of charge.

**Computer Engineering
Computer Laboratory**



**Chemical Engineering
Computer Laboratory**



- ❖ Our library provides effective service in order to provide, organize and provide access to the materials required for the education, training and research activities of our university in the most efficient and rapid way.
- ❖ All publications arriving at our library are catalogued in accordance with the Anglo American Cataloguing Rules II and classified according to the Library of Congress System, and are presented to the reader in our book halls in accordance with the open shelf concept.
- ❖ In our library, the BLISS Library Automation Program was started to be used in 1994 and in 2000, the YORDAM Library Automation System was switched to. Thus, all books and documents were transferred to the automation system. The catalogue searching link using this system is given below. <http://yordam.mersin.edu.tr/yordambt/yordam.php?aTumu=>
- ❖ By using this link, you can access the books in the field of "**Chemical Engineering**" in our library.

In the catalogue search system, there are 2377 books in the field of "Mathematics" under the code QA, 869 books in the field of "Physics" under the code QC, and 823 books in the field of "Chemistry" under the code QD.

In the field of Chemical Engineering, there are a total of 119 books related to Chemical Engineering, including 55 under the code TP 155, 48 under the code TP 156, 7 under the code TP 157, 3 under the code TP 168, 3 under the code QA 371 and 297, 2 under the code QC 145 and 1 under the code TA 345.



PHYSICAL INFRASTRUCTURE

Library

Catalog Search Screenshot

Book Title	Author	Call Number	Status
Chemical and engineering thermodynamics	Stanley I. Sandler	60 504 525 1989 A.1 MERSİN	NEW
Applied mathematics and modeling for chemical engineers	Richard G. Rice, Duong D. Do	QA 371 837 1995 A.1 MERSİN	NEW
Molecular engineering	Henry A. McGee	TP 149 J488 1991 A.1 MERSİN	NEW
Chemical engineering kinetics	J. M. Smith	TP 155 558 1982 A.1 MERSİN	NEW
Mass transfer operations	Robert E. Treybal	TP 154 M3 17 1980 A.2 MERSİN	NEW
Mass transfer operations	Robert E. Treybal	TP 154 M3 17 1980 A.2 MERSİN	NEW



❖ Students of the Department of Chemical Engineering, who have completed their fourth semester, must complete two internships, each lasting at least 20 working days, in different sectors where chemical engineering applications are found, until they graduate.

❖ The company where the internship will take place is an organization/business operating in the field of chemistry/chemical technologies, where at least one person who graduated from a 4-year university department is responsible for production/business.

- The student who completes the internship submits the internship report (by filling in the internship notebook given by the faculty and getting it approved by the workplace where he/she did the internship) to the Department Secretary at the beginning of the following fall semester.
- The internship committee, consisting of department faculty members, evaluates the student as successful or unsuccessful through an oral exam, taking into account the internship report prepared by the student.

SUMMER INTERNSHIP

WORKPLACE TRAINING

- ✓ Our faculty has started to implement Workplace Training since the 2018-2019 Academic Year.
- ✓ In this context, our students can spend the 8th semester of their education in workplaces in their own fields.
- ✓ Although Workplace Training is optional, students and companies that will participate in this application must meet the criteria determined by our Faculty.
- ✓ Details of the Workplace Training can be accessed at <http://www.mersin.edu.tr/akademik/muhendislik-fakultesi/isyeri-egitimi>

Workplace Training collaborations



Teknopanel A.Ş.
Sandviç Panel ve EPS
Ürünleri Üreticisi



YILBOR BORU
PLASTİK PETROL
SAN. TİC. A.Ş.



Akyüzler
Alüminyum A.Ş.

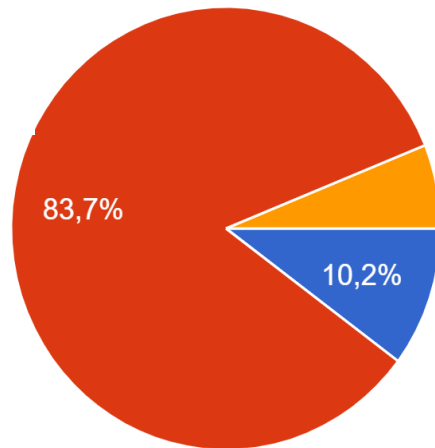
GRADUATE STATISTICS

(50 of our graduates participated in survey.)

What type of institution/organization do you work for?

49 answer

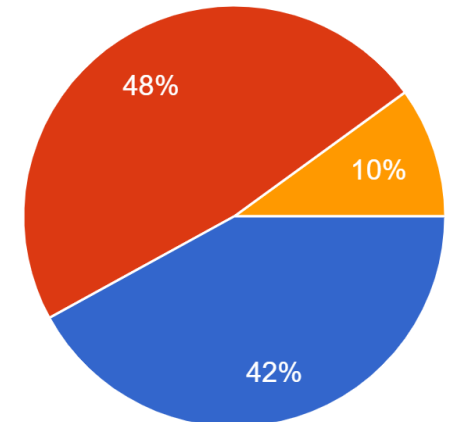
- public
- private
- my own business



What is your job description?

50 answer

- Managerial
- Technic
- Academic



PHOTOS FROM GRADUATION CEREMONIES

2016-2017



2017-2018



2018-2019



2023-2024



Our website

<http://www.mersin.edu.tr/akademik/muhendislik-fakultesi/bolumler/kimya-muhendisligi-bolumu>

+90 324 361 00 01 +90 324 361 00 73 yaziisleri@mersin.edu.tr E-Notification: 35632-32362-84960 f i x y

English Map



HOME UNIVERSITY ACADEMIC ADMINISTRATIVE STUDENT HOSPITALS RESEARCH QUALITY

HOME > Academic > Faculty of Engineering > Departments >

DEPARTMENT OF CHEMICAL ENGINEERING



MERSİN UNIVERSITY
A WORLD UNIVERSITY IN THE LIGHT OF SCIENCE AND MODERNITY

ANNOUNCEMENTS

GENERAL

- Administration
- Academic Staff
- Administrative Staff
- Programs
- Quality
- Request and Suggestion Form
- Department Promotional Film
- Department Presentation

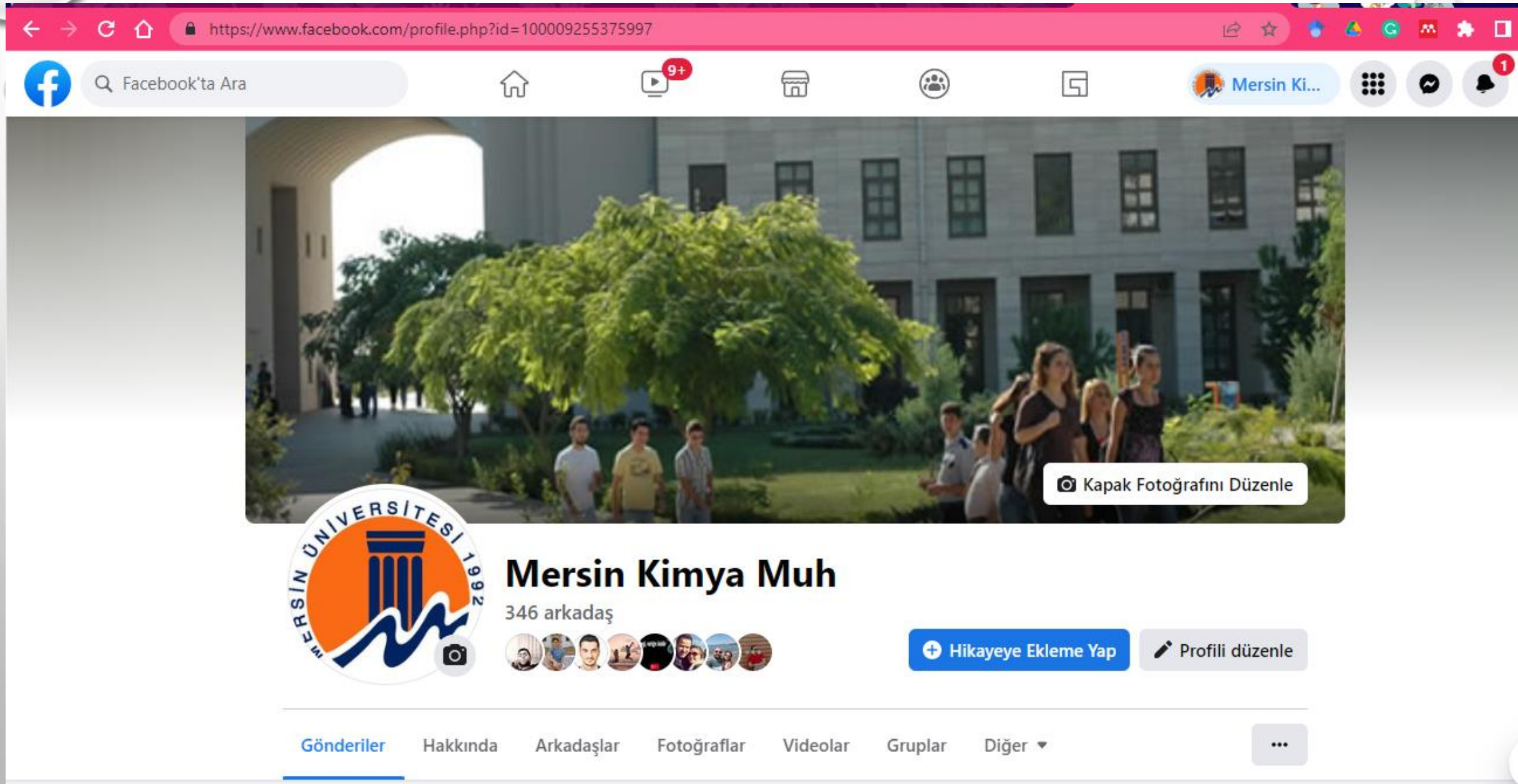
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Facebook

(Mersin Kimya Muh)

<https://www.facebook.com/profile.php?id=100009255375997>





**BEING A
CHEMICAL
ENGINEER IS A
NICE PRIVILEGE**

**As Mersin University Chemical
Engineering Department, we wish to see
you among us.**

THANKS ☺