



YILDIZ TECHNICAL UNIVERSITY DEPARTMENT OF CHEMICAL ENGINEERING



- Chemical engineering deals with the physical, chemical and biological transformations of matter that are the basis of making useful products.
- A chemical engineer works on the development of processes and their applications, in which these transformations occur in harmony.



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Chemical engineering is a rapidly developing profession where **interdisciplinary work** with other branches of engineering and science is necessary, in order to be at the **frontiers of science and technology**.



WHAT DOES A CHEMICAL ENGINEER DO?

The major tasks of a chemical engineer are to:

- DESIGN
- CONSTRUCT
- OPERATE

the processes.







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- A chemical engineer can work in the fields of:
- Petrochemicals
- Petroleum products
- Pharmaceuticals
- Healthcare
- Energy
- Pulp and paper
- Food processing
- Microelectronics



WHAT DOES A CHEMICAL ENGINEER DO?

- Polymers
- Biotechnology
- Paints/pigments/inks
- Plastics, synthetic resins and composites
- Rubber and rubber products
- Aerospace and automotive
- Mineral processing
- Environmental health and safety





- Cosmetics
- Textiles
- Agriculture
- Electronic and advanced materials
- Design and construction
- Modelling and software





Chemical engineers work in all aspects of the energy industry, such as:

- Alternative and nonconventional methods for energy production
- Developing inexpensive solar cells
- New materials for fuel cells
- Lighter and stronger composites for energy transportation.



BIOTECHNOLOGY AND PHARMACEUTICALS

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Chemical engineers collaborate with genetic engineers to manufacture new biotech-based drugs and products.

They also work on the manufacture of life-saving drugs, materials and devices that are used for human healthcare.



ENVIRONMENT



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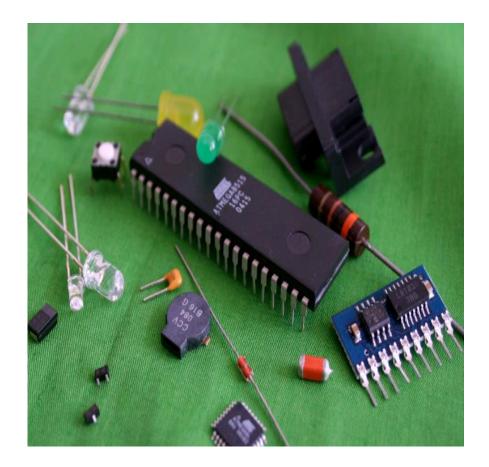


Chemical engineers work to minimize the negative impact on the environment by developing efficient processing and recycling methods.

ELECTRONIC AND HIGH-TECH MATERIALS







Chemical engineers create the materials that make our high-tech world possible, from the semiconductors in our laptops, to the liquid crystal polymers used in flat panel displays and batteries of cell phones.

PETROCHEMICALS



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Chemical engineers work in refineries, in which crude oil is transformed into the building blocks for fuels, plastics, paint, lubricants, detergents, etc.



FOOD





Chemical engineers contribute to food production from fertilizers that help crops grow, to processing methods that help to retain or enhance the taste and nutritional value.



DEPARTMENT OF CHEMICAL ENGINEERING



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Yıldız Technical University is the fourth oldest university of Turkey, with a history dating back to 1911.

- 1911-1922: Kondüktör Mekteb-i Âlisi / The Conductors (Technicians) School of Higher Education
- 1922-1937: Nafia Fen Mektebi/The School of Public Works
- 1937-1969: The Istanbul Technical School



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- 1969-1982: İstanbul State Academy of Engineering and Architecture
- 1982-1992: Yıldız University
- **1992-Today:** Yıldız Technical University



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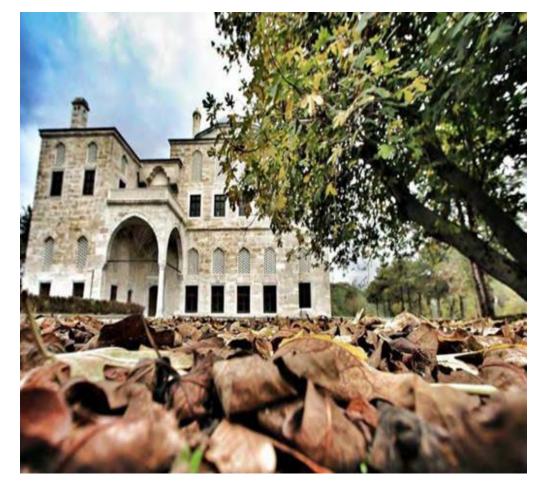
Today:

- 11 Faculties
- 2 Institutes
- Technical Vocational School of Higher Education
- School of National Palaces & Historical Buildings
- School of Foreign Languages

DAVUTPAŞA CAMPUS

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History dating back to Byzantine period, a place for military and palace ceremonies.

Ottoman empire: from 15th century.

Headquarters of Asakir-i Mansure-i Muhammediye army.

Military hospital during the first world war.

Property of YTÜ since 1999.

FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING



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- Chemical Engineering
- Bioengineering
- Metallurgical and Materials Engineering
- Mathematical Engineering
- Food Engineering

DEPARTMENT OF CHEMICAL ENGINEERING





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The Department of Chemical Engineering was first established with its original name "Galatasaray Chemical Engineering Private College" in 1964 at Galatasaray, İstiklal Street.

In later years the department moved to Şişli Abide-i Hürriyet Campus and it became a unit of İstanbul State Engineering and Architectural Academy.

DEPARTMENT OF CHEMICAL ENGINEERING





Under the act of conversion of academies to universities, the faculty and various other engineering colleges in Istanbul were combined under 'Yıldız University' in 1983.

The Department of Chemical Engineering served in the Engineering Faculty of Yıldız University until 1992, when the name of the university was changed to Yıldız Technical University.

DEPARTMENT OF CHEMICAL ENGINEERING



The Department of Chemical Engineering was then placed under the faculty of 'Chemical and Metallurgical Engineering' and continued its education at Şişli Campus until 2000, when it moved to Davutpaşa Campus.

ADMINISTRATIVE STAFF



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Chairman of the Department of Chemical Engineering: Prof. Dr. Belma Özbek

Vice Chairmen of the Department of Chemical Engineering: Assoc. Prof. Dr. Yavuz Salt Assoc. Prof. Dr. Elçin Yılmaz



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Currently the academic staff of the Department of Chemical Engineering involves:

- 7 professors
- 15 associate professors
- 6 assistant professors
- 10 research assistants
- 3 specialists.



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Professors:

Prof. Dr. Belma Özbek

http://avesis.yildiz.edu.tr/bozbek

Prof. Dr. Mualla Öner

http://avesis.yildiz.edu.tr/oner

Prof. Dr. Hasan Sadıkoğlu

http://avesis.yildiz.edu.tr/hsadik









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Prof. Dr. Mesut Akgün

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Prof. Dr. Jale Gülen

http://avesis.yildiz.edu.tr/gulenj

Prof. Dr. İbrahim Doymaz

http://avesis.yildiz.edu.tr/doymaz

Prof. Dr. Aysel Kantürk Figen

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Associate Professors:

Assoc. Prof. Dr. Dilek Kılıç Apar

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Assoc. Prof. Dr. Ayça Meriç Hasanoğlu

http://avesis.yildiz.edu.tr/aymeric

Assoc. Prof. Dr. Yavuz Salt

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Assoc. Prof. Dr. Osman İsmail

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Assoc. Prof. Dr. Özlem Doğan Aydeniz

http://avesis.yildiz.edu.tr/dogano

Assoc. Prof. Dr. Halit Eren Figen

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Assistant Professors:

Assist. Prof. Dr. Burcu Çorbacıoğlu

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http://avesis.yildiz.edu.tr/kucuk

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Assist. Prof. Dr. İnci Salt

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Assist. Prof. Dr. Seyfullah Keyf

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Assist. Prof. Dr. Ekin Kıpçak

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Research Assistants:

Res. Assist. Selen Ezgi Çelik

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Res. Assist. Abdullah Bilal Öztürk

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Res. Assist. Günay Baydar Atak

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Res. Assist. Elena Borucu

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Res. Assist. Deniz Uygunöz

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Res. Assist. Enis Muhammet Gül

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ACADEMIC STAFF

Specialists:

Specialist Dr. Semra Kırboğa Okumuş

http://avesis.yildiz.edu.tr/skirboga

Specialist Dr. H. İrem Özgündüz

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Specialist Dr. Elif Öztürk Er

http://avesis.yildiz.edu.tr/ozturke











Department Secretary: Emel Karahan



Student Affairs: Ertekin Karakuş



DIVISIONS



Process and Reactor Design (Head: Prof. Dr. Belma Özbek)

- Chemical Technologies

 (Head: Prof. Dr. İbrahim Doymaz)
- Unit Operations and Thermodynamics (Head: Prof. Dr. Hasan Sadıkoğlu)

RESEARCH AREAS



- Thermodynamics and heat transfer
- Energy technologies (coal, natural gas, hydrogen and biomass)
- Separation technology
- Kinetics
- Catalysis
- Reactor design
- Polymer technology
- Paint technology
- Advanced material technology

RESEARCH AREAS



- Enzyme kinetics and immobilization
- Adsorption
- Nanoparticle synthesis
- Drug delivery systems
- Production of artificial tissue skeletons
- Crystallization
- Supercritical fluid technology
- Process control
- Aging properties of cultural heritage

RESEARCH AREAS



- Cement and concrete technology
- Environmental pollution
- Boron technology
- Membrane processes
- Food technology
- Drying technology
- Biochemical engineering
- Computer applications
- Recycle of valuable metals

DEPARTMENT OF CHEMICAL ENGINEERING



- Has a reading room, 4 computer rooms, a seminar room and classrooms allocated for the undergraduate and graduate students.
- Contains 2 undergraduate and 14 research labs.
 Various research projects supported by national (DPT, TUBITAK, YTU) and international funds are conducted in the research labs, with necessary equipment to meet the demands of private and public sector.

DEPARTMENT OF CHEMICAL ENGINEERING



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The research laboratories present in our department are as follows:

- Prof. Dr. Abdülkadir Kuyulu Boron Technologies Laboratory
- Food and Inorganic Material Technologies Laboratory
- Fuel Technologies and Environment Laboratory
- Membrane and Food Technologies Laboratory
- Advanced Separation Technologies and Valuable Metal Recovery Laboratory





- Nanomaterials and Environmental Technologies Laboratory
- Polymer and Membrane Gas Separation Technologies Laboratory
- Advanced Material Synthesis Laboratory
- Membrane and Material Technologies Laboratory
- Biotechnology and Composite Materials Laboratory



DEPARTMENT OF CHEMICAL ENGINEERING

- Solid Phase Gas Diffusion Technologies Laboratory
- Bioprocess Research Laboratory
- Supercritical Fluid Technologies and Crystallization Laboratory
- Energy and Materials Laboratory

STUDYING CHEMICAL ENGINEERING

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The undergraduate students in the Department of Chemical Engineering must:

- Be successful in all of the courses with a minimum achievement grade of DC
- Complete at least 240 ECTS credits and score a minimum CGPA of 2.00/4.00
- Complete their compulsory internships within the designated period of time and within the scope of necessary qualifications.





STUDYING CHEMICAL ENGINEERING



- The undergraduate students in the Department of Chemical Engineering also must:
- Obey the discipline regulations
- Have an average grade of at least 40 out of 100 for a course, in order for the course to be evaluated as successful
- Attend at least 70% of theoretical courses and 80% of any practices apart from theoretical courses.





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Germany:

Berlin Technical University, Dortmund University, Chemnitz Technical University, Münster University of Applied Sciences, University of Rostock, Hochschule Esslingen

Italy:

Trieste University, Salerno University, Genova University

Chezch Republic:

Brno University of Technology



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Spain:

Oviedo University, Valladolid University, Almeria University, Alicante University, University of Santiago

Denmark:

Syddansk University

Austria:

Vienna University of Technology

France:

Toulouse University, Universite de Reims, Université Lille Sciences et Technologies



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Bulgaria:

University of Chemical Technology and Metallurgy **Estonia:**

University of Tartu

Portugal:

Polytechnic Institute of Coimbra, Porto University

Romania:

University Polytechnica of Bucharest

Lithuania:

Klaipeda University



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Poland:

Wroclaw University of Technology, Politechnika Poznanska, Cracow University of Technology, Zachodniopomorski Uniwersytet Technologyczny, Uniwersytet Technologiczno-Przyrodniczy

Norway:

Norwegian University of Science and Technology

Belgium:

KU Leuven

CURRICULUM – FIRST YEAR



http://www.bologna.yildiz.edu.tr

1.Year - Fall Semester									
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS		
FIZ1001		Physics 1	3	0	2	4	5		
KIM1501		General Chemistry 1	2	0	2	3	6		
KMM1041		Introduction to Chemical Engineering	2	0	0	2	5		
MAT1071		Mathematics 1	3	2	0	4	6		
MDB1031		Advanced English I	3	0	0	3	3		
TDB1031		Turkish Language 1	2	0	0	0	2		
SEC0001		Elective 1-1	3	0	0	3	3		
						Total:	30		
		1.Year - Spring Semester	r						
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS		
FIZ1002		Physics 2	3	0	2	4	5		
KIM1502		General Chemistry 2	2	0	2	3	6		
KMM1002		Basic Computer Science	2	2	0	3	5		
MAT1072		Mathematics 2	3	2	0	4	6		
MAT1320		Linear Algebra	2	0	0	2	3		
MDB1032		Advanced English II	3	0	0	3	3		
TDB1032		Turkish language 2	2	0	0	0	2		
						Total:	30		

CURRICULUM – FIRST YEAR



	Elective Courses 1									
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS			
DNS1210		Body and Movement Consciousness	3	0	0	3	3			
ITB2020		History of Science	3	0	0	3	3			
ITB2030		Philosophy of Science	3	0	0	3	3			
ITB2080		Women in Social Transformations	3	0	0	3	3			
ITB3010		Sociology	3	0	0	3	3			
ITB3020		Introduction to Philosophy	3	0	0	3	3			
ITB3040		Political Developments ana Social Movements in Twentieth-Century	3	0	0	3	3			
ITB3130		Political Ideologies: Theory and History	3	0	0	3	3			
ITB3150		History and Cinema	3	0	0	3	3			
ITB4100		Social Structures and Historical Transformations	3	0	0	3	3			
MDB4011		Introduction to German Language Skills	3	0	0	3	3			
MDB4031		Advanced German	3	0	0	3	3			
MTP4760		Dance in Istanbul from the 16th Century to the Present	3	0	0	3	3			

CURRICULUM – SECOND YEAR



		2.Year - Fall Semester					
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
ATA1031		Principles of Atatürk and History of Modern Turkey I	2	0	0	0	2
KIM2301		Analytical Chemistry	2	0	2	3	4
KMM2601		Occupational Health and Safety 1	2	0	0	2	2
KMM2611		Chemical Engineering Calculations	2	2	0	3	4
KMM2621		Physical Chemistry for Engineers	2	2	0	3	4
MAT2411		Differential Equations	4	0	0	4	5
MDB2051		Reading and Speaking in English	2	0	0	2	2
SEC0002		Elective 2-1	3	0	0	3	3
SEC0003		Elective 3-1	3	0	0	3	4
						Total:	30
		2.Year - Spring Semeste	er				
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
ATA1032		Principles of Atatürk and History of Modern Turkey II	2	0	0	0	2
KIM2462		Organic Chemistry	3	0	2	4	6
KMM2002		Internship I	0	0	0	0	2
KMM2602	\checkmark	Occupational Health and Safety 2	2	0	0	2	2
KMM2612		Fluid Mechanics in Chemical Engineering	2	2	0	3	5
KMM2622		Material Science for Chemical Engineers	2	0	0	2	2
KMM2632		Chemical Engineering Thermodynamics 1	3	0	0	3	4
SEC0004		Elective 4-1	3	0	0	3	3
SEC0005		Elective 5-1	3	0	0	3	4
						Total:	30

CURRICULUM – SECOND YEAR



		Elective Courses 2					
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
ITB3250		Introduction to Psychology	3	0	0	3	3
ITB3260		Cultural Studies and Identity	3	0	0	3	3
ITB3270		Istanbul: Past, Present, and Future	3	0	0	3	3
ITB3360		History of Art	3	0	0	3	3
ITB3390		History of Civilizations	3	0	0	3	3
ITB3420		The Social Structure of Ottoman Empire	3	0	0	3	3
ITB3550		Human Rights	3	0	0	3	3
ITB3560		Political Philosophy	3	0	0	3	3
MDB4021		German Language Skills	3	0	0	3	3
MDB4041		Reading &Speaking in German	3	0	0	3	3
MDB4051		Business German	3	0	0	3	3
		Elective Courses 3					
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
CEV2231		Statistics	3	0	0	3	4
CEV3321		Air Pollution	3	0	0	3	4
ISL1611		Introduction to Business	3	0	0	3	4
ISL1711		Introduction to Law	3	0	0	3	4
ISL3660		Business Communication	3	0	0	3	4

CURRICULUM – SECOND YEAR



		Elective Courses 4					
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
ITB2040		Economic Policies and Applications	3	0	0	3	3
ITB2090		Democracy Culture Principles and Institutions	3	0	0	3	3
ITB3210		Communication in Contemporary Society	3	0	0	3	3
ITB3220		Modernity and Consumer Society	3	0	0	3	3
ITB3330		Environment and Ecology	3	0	0	3	3
ITB3570		Philosophy of Education	3	0	0	3	3
		Elective Courses 5					
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
ELM2082		Energy Generation	3	0	0	3	4
ISL1622		Behavior Science	3	0	0	3	4
ISL3912		Human Resource Management (Business Administration)	3	0	0	3	4
KMM2642		Technical Drawing	3	0	0	3	4

CURRICULUM – THIRD YEAR



		3.Year - Fall Semester						
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS	
KMM3501		Entrepreneurship and Project Management	2	0	0	2	4	
KMM3511		Numerical Analysis	3	0	0	3	4	
KMM3521		Heat Transfer in Chemical Engineering	2	2	0	3	5	
KMM3531	\checkmark	Chemical Engineering Thermodynamics 2	3	0	0	3	5	
KMM3541		Mass Transfer	3	0	0	3	4	
SEC0006		Elective 6-1	3	0	0	3	4	
SEC0007		Elective 7-1	3	0	0	3	4	
						Total:	30	
3.Year - Spring Semester								
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS	
KMM3002		Internship II	0	0	0	0	2	
KMM3502		Separation Processes	2	2	0	3	5	
KMM3512		Computer Applications in Chemical Engineering	1	2	0	2	4	
KMM3522	\checkmark	Chemical Engineering Laboratory I	0	0	4	2	5	
KMM3532		Mathematical Modelling in Chemical Engineering	3	0	0	3	4	
KMM3542		Chemical Reaction Engineering	3	0	0	3	4	
MDB3032		Business English	2	0	0	2	2	
SEC0008		Elective 8-1	3	0	0	3	4	
						Total:	30	

CURRICULUM – THIRD YEAR



		Elective Courses 6							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECT		
ISL3930		Corporate Reputation from the Behavioral Perspective	3	0	0	3	4		
KMM3551		Environmental Technology	3	0	0	3	4		
KMM3561		Technical Communication	3	0	0	3	4		
KMM3571		Fuels and Fuel Technologies	3	0	0	3	4		
Elective Courses 7									
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS		
ISL4611		Business Ethics	3	0	0	3	4		
KMM3581		Energy Conservation	3	0	0	3	4		
KMM3591		Analysis Methods in Chemical Industry	3	0	0	3	4		
KMM3611		Quality Control in Chemical Industry	3	0	0	3	4		
KMM3621		Vocational English	3	0	0	3	4		
		Elective Courses 8							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS		
KMM3552		Experimental Design and Data Analysis	3	0	0	3	4		
KMM3562		Measurement and Control Equipment	3	0	0	3	4		
KMM3572		Design of Process Units	3	0	0	3	4		
KMM3582		Textile Processing Technology	3	0	0	3	4		
KMM3592		Food Technology	3	0	0	3	4		

CURRICULUM – FOURTH YEAR



	4.Year - Fall Semester									
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS			
KMM4601	\checkmark	Chemical Engineering Laboratory II	0	0	4	2	5			
KMM4611	\checkmark	Process Design in Chemical Engineering-I	2	2	0	3	6			
KMM4621		Chemical Reactor Design	3	0	0	3	5			
KMM4631		Process Dynamics and Control	3	0	0	3	6			
SEC0009		Elective 9-1	3	0	0	3	4			
SEC0010		Elective 10-1	3	0	0	3	4			
						Total:	30			
4.Year - Spring Semester										
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS			
KMM4000		Graduation Thesis	0	8	0	4	8			
KMM4602		Chemical Engineering Laboratory III	0	0	4	2	5			
KMM4622	\checkmark	Process Design in Chemical Engineering-II	2	2	0	3	5			
KMM4632		Chemical Technologies	3	0	0	3	4			
SEC0011		Elective 11-1	3	0	0	3	4			
SEC0012		Elective 12-1	3	0	0	3	4			
						Total:	30			
				Prog	gram Total E	ECTS:	240			

CURRICULUM – FOURTH YEAR



	Elective Courses 9									
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS			
KMM4641		Waste Recycling	3	0	0	3	4			
KMM4651		Biochemical Engineering Fundamentals	3	0	0	3	4			
KMM4661		Basic Processes in Food Technology	3	0	0	3	4			
KMM4671		Chemical Engineering Economics	3	0	0	3	4			
KMM4681		Polymer Production and Technology	3	0	0	3	4			
		Elective Courses 10								
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS			
KMM4691		Bioseparation	3	0	0	3	4			
KMM4711		Electrochemical Processes	3	0	0	3	4			
KMM4721		Optimization in Chemical Engineering	3	0	0	3	4			
KMM4731		Membrane and Membrane Processes	3	0	0	3	4			
KMM4741		Design of New and Renewable Energy Systems	3	0	0	3	4			

CURRICULUM – FOURTH YEAR



	Elective Courses 11									
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS			
ISL4420		Sales Management	3	0	0	3	4			
KMM4642		Fundamentals of Enzyme Engineering	3	0	0	3	4			
KMM4652		Catalysis and Catalytic Processes	3	0	0	3	4			
KMM4662		Corrosion in Chemical Industry	3	0	0	3	4			
KMM4672		Available Energy Analysis	3	0	0	3	4			
Elective Courses 12										
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS			
ELM3252		Combined Heat and Power	3	0	0	3	4			
KMM4682		Biomaterial Technologies	3	0	0	3	4			
KMM4692		Total Quality Assurance in Chemical Engineering	3	0	0	3	4			
KMM4702		Polymer Processing	3	0	0	3	4			
KMM4712		Chemical Enrichment Technology	3	0	0	3	4			
KMM4722		Computer Aided Advanced Chemical Engineering Applications	3	0	0	3	4			

ACADEMIC GUIDANCE



Department Website

www. kmm.yildiz.edu.tr

Scientific Websites

Google: www.google.com

Google Scholar: scholar.google.com

Web of Science: webofknowledge.com

Science Direct: www.sciencedirect.com

Scopus: www.scopus.com

etc.

ACADEMIC GUIDANCE

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http://www.kmm.yildiz.edu.tr





ANASAYFA BÖLÜM PERSONEL EĞİTİM ARAŞTIRMA ÖĞRENCİLER DEĞİŞİM PROGRAMLARI MEZUNLARIMIZ



HIZLI MENÜ	Duyurular	Tüm Duyurular	Haberler ve Etkinlikler	Tüm Haberler
İletişim	% 100 İngilizce Lisans Programıza Kayıtlı	*	3. Kimya Mühendisliği Tasarım Etkinliği	*
Akademik Takvim	Öğrencilerimizin Dikkatine 18 EYL 2019	_	(KİMMTE 3) 15 MAY 2019	

PERSONAL GUIDANCE



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- Student Guidance and Career Center (ÖRKAM) http://www.orkam.yildiz.edu.tr
- Online Psychological Consultation odek@yildiz.edu.tr
- YTÜ Office of Dean of Students
- http://www.ogrde.yildiz.edu.tr































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We hope that your journey for 4 years will be joyful, successful, educative and productive! Welcome to the Department of Chemical Engineering!

