

## COURSE POOL

### FACULTY OF ENGINEERING

Level	Department	Code	Courses	ECTS	Language of Instruction	Semester	Course Type	Instructor
Undergraduate	Energy Systems Engineering	ESM105	Chemistry	6	Turkish/English	Fall	Compulsory	Asst.Prof.Dr. Atif Emre DEMET
Undergraduate	Energy Systems Engineering	ESM308	Nuclear Energy	6	Turkish/English	Spring	Elective	Asst.Prof.Dr. Atif Emre DEMET
Graduate	Energy Systems Engineering	8206010053	Patent and Applications	8	Turkish/English	Spring	Elective	Asst.Prof.Dr. Atif Emre DEMET
Undergraduate	Civil Engineering	INS210	Fluid mechanics (Akışkanlar mekaniği )	5	English	Spring	Compulsory	Assoc. Dr. Şerife Yurdagül KUMCU
Undergraduate	Civil Engineering	INS312	Hydraulics (hidrolik)	4	English	Spring	Compulsory	Assoc. Dr. Şerife Yurdagül KUMCU
Graduate	Civil Engineering	8215010023	Open channel Hydraulics (Açık kanal hidroliği)	8	English	Spring	Elective	Assoc. Dr. Şerife Yurdagül KUMCU
Undergraduate	Environmental Engineering	CEV203	ENVIRONMENT CHEMISTRY-1	5	English	Fall	Compulsory	Prof. Dr. Ali Tor
Undergraduate	Environmental Engineering	CEV207	ENVIRONMENTAL MICROBIOLOGY	3	English	Fall	Compulsory	Dr. Öğr. Üyesi Fatma Kunt
Undergraduate	Environmental Engineering	CEV200	ENVIRONMENT CHEMISTRY-2	5	English	Spring	Compulsory	Prof. Dr. Ali Tor
Undergraduate	Environmental Engineering	CEV202	ENVIRONMENT CHEMISTRY LAB.	4	English	Spring	Compulsory	Prof. Dr. Ali Tor
Undergraduate	Environmental Engineering	CEV301	PHYSICAL BASIC OPERATIONS	5	English	Fall	Compulsory	Prof. Dr. Senar Aydın
Undergraduate	Environmental Engineering	CEV305	WATER QUALITY AND CONTROL	4	English	Fall	Compulsory	Doç. Dr. Fatma Bedük
Undergraduate	Environmental Engineering	CEV300	CHEMICAL AND BIOLOGICAL UNIT PROCESSES	5	English	Spring	Compulsory	Prof. Dr. Senar Aydın
Undergraduate	Environmental Engineering	CEV302	BASIC OPERATIONS LAB.	3	English	Spring	Compulsory	Dr. Öğr. Üyesi Gülizar Kurtoğlu Akkaya
Undergraduate	Environmental Engineering	CEV304	DRINKING WATER TREATMENT	5	English	Spring	Compulsory	Doç. Dr. Fatma Bedük
Undergraduate	Environmental Engineering	CEV401	SOLID WASTES AND CONTROL	4	English	Fall	Compulsory	Dr. Öğr. Üyesi Gülizar Kurtoğlu Akkaya
Undergraduate	Environmental Engineering	CEV403	WASTEWATER TREATMENT	4	English	Fall	Compulsory	Doç. Dr. Fatma Bedük
Undergraduate	Environmental Engineering	CEV407	AIR POLLUTION AND CONTROL	4	English	Fall	Compulsory	Dr. Öğr. Üyesi Fatma Kunt
Master/Doctorate	Environmental Engineering	FB-ORT-505	SCIENTIFIC RESEARCH METHODS AND PUBLICATION ETHICS	8	English	Fall	Compulsory	Dr. Öğr. Üyesi İlkey Buğdaycı
Master/Doctorate	Environmental Engineering	8201010011	USING THE TECHNIQUES OF INSTRUMENTAL ANALYSIS IN ENVIROMENTAL ENGINEERING	8	English	Fall	Elective	Prof. Dr. Ali Tor
Master/Doctorate	Environmental Engineering	8201010013	ADVANCED OXIDATION TECHNIQUES IN WATER TREATMENT	8	English	Fall	Elective	Doç. Dr. Fatma Bedük
Master/Doctorate	Environmental Engineering	8201030047	SOLID WASTE LEACHATE MANAGEMENT	8	English	Fall	Elective	Dr. Öğr. Üyesi Gülizar Kurtoğlu Akkaya
Master/Doctorate	Environmental Engineering	8201010015	ADVANCED STATISTICS APPLICATIONS IN ENVIRONMENTAL ENGINEERING	8	English	Spring	Elective	Prof. Dr. Ali Tor
Master/Doctorate	Environmental Engineering	8201010016	BEHAVIOR AND TRANSPORT OF POLLUTANT IN THE ENVIRONMENT	8	English	Spring	Elective	Doç. Dr. Fatma Bedük
Master/Doctorate	Environmental Engineering	8201010040	ARTIFICIAL INTELLIGENCE METHODS IN ENVIRONMENTAL ENGINEERING	8	English	Spring	Elective	Dr. Öğr. Üyesi Fatma Kunt
Undergraduate	Industrial Engineering	INE201	Probability	5	English	Fall	Compulsory	Prof. Dr. Mehmet Aktan
Undergraduate	Industrial Engineering	INE104	Linear Algebra	6	English	Spring	Compulsory	Dr. Öğr. Üyesi A. Reha Botsalı
Undergraduate	Industrial Engineering	INE213	Engineering and Techology Management	6	English	Fall	Elective	Dr. Öğr. Üyesi Kemal Alaykiran
Undergraduate	Industrial Engineering	INE202	Statistics	7	English	Spring	Compulsory	Dr. Öğr. Üyesi Bilal Ervural

Undergraduate	Industrial Engineering	INE214	Total Quality Management	6	English	Spring	Elective	Prof. Dr. Mehmet Aktan
Undergraduate	Industrial Engineering	INE303	Management and Organization	4	English	Fall	Compulsory	Dr. Öğr. Üyesi Kemal Alaykiran
Undergraduate	Industrial Engineering	INE310	Project Management	5	English	Spring	Compulsory	Dr. Öğr. Üyesi Burak Efe
Undergraduate	Industrial Engineering	INE403	Production Systems	5	English	Fall	Compulsory	Dr. Öğr. Üyesi A. Reha Botsalı
Undergraduate	Geomatics Engineering	HRT439	Navigation Purposed GNSS Applications	4	English	Fall	Elective	Assoc.Prof.Dr. Sermet OGUTCU
Undergraduate	Geomatics Engineering	HRT425	Disaster Management System	4	English	Fall	Elective	Asist.Prof.Dr.Ilkay BUGDAYCI
Undergraduate	Geomatics Engineering	HRT401	Engineering Surveying	3	English	Fall	Compulsory	Assoc.Prof.Dr. Salih ALCAY
Undergraduate	Geomatics Engineering	HRT437	Project Management in Survey Engineering	2	English	Fall	Compulsory	Assoc.Prof.Dr. Sermet OGUTCU
Undergraduate	Geomatics Engineering	HRT315	Cartography Date	4	English	Fall	Elective	Asist.Prof.Dr.Ilkay BUGDAYCI
Undergraduate	Geomatics Engineering	HRT205	Introduction to Cartography	3	English	Fall	Compulsory	Asist.Prof.Dr.Ilkay BUGDAYCI
Undergraduate	Geomatics Engineering	HRT209	Coordinate Systems In Geodesy	3	English	Fall	Compulsory	Assoc.Prof.Dr. Sermet OGUTCU
Undergraduate	Geomatics Engineering	HRT424	Analysis of GNSS data	4	English	Spring	Elective	Assoc.Prof.Dr. Salih ALCAY
Undergraduate	Geomatics Engineering	HRT428	Deformation Measurements	4	English	Spring	Elective	Assoc.Prof.Dr. Salih ALCAY
Undergraduate	Geomatics Engineering	HRT426	Cartography in Education	4	English	Spring	Elective	Asist.Prof.Dr.Ilkay BUGDAYCI
Undergraduate	Geomatics Engineering	HRT318	CORS-TR Applications	4	English	Spring	Elective	Assoc.Prof.Dr. Sermet OGUTCU
Undergraduate	Geomatics Engineering	HRT206	Height Measurements	5	English	Spring	Compulsory	Assoc.Prof.Dr. Salih ALCAY
Undergraduate	Geomatics Engineering	HRT306	Road Design and Project	3	English	Spring	Compulsory	Assoc.Prof.Dr. Sermet OGUTCU
Undergraduate	Geomatics Engineering	HRT302	Adjustment Computation	4	English	Spring	Compulsory	Assoc.Prof.Dr. Salih ALCAY
Undergraduate	Computer Engineering	BIL 113	Algorithms and Programming-1	7	Native Language	Fall	Compulsory	Assoc. Dr. Hüseyin HAKLI
Undergraduate	Computer Engineering	BIL204	Software Engineering	4	Native Language	Fall	Compulsory	Asst. Assoc. Dr. Şaban GÜLCÜ
Undergraduate	Computer Engineering	BIL301	Computer Architecture and Organization	5	Native Language	Fall	Compulsory	Asst. Assoc. Dr. Muhammed IBRAHİM
Undergraduate	Computer Engineering	BIL305	Database Systems	5	Native Language	Fall	Compulsory	Asst. Assoc. Dr. Onur İNAN
Graduate	Computer Engineering	8221010018	Data Mining	8	Native Language	Spring	Elective	Asst. Assoc. Dr. Ayşe Merve ACILAR
Graduate	Computer Engineering	8221010001	Advanced Image Processing	8	Native Language	Fall	Elective	Prof.Dr. Sabri KOÇER
Graduate	Computer Engineering	8221010022	Advanced Software Engineering	8	Native Language	Spring	Elective	Asst. Assoc. Dr. Şaban GÜLCÜ
Graduate	Computer Engineering	8221010027	Cyber Security	8	Native Language	Spring	Elective	Assoc. Dr. Mehmet HACİBEYOĞLU
Graduate	Computer Engineering	8221010029	Computational Swarm Intelligence	8	Native Language	Spring	Elective	Assoc. Dr. Hüseyin HAKLI
Undergraduate	tallurgical and Materials Engineer	MME201	Materials Science-1	4	English	Fall	Compulsory	Doç. Dr. Hasan KOTAN
Undergraduate	tallurgical and Materials Engineer	MME203	Statics and Strength of Materials	4	English	Fall	Compulsory	Dr. Öğr. Üyesi Hakan Burak KARADAĞ
Undergraduate	tallurgical and Materials Engineer	MME221	Thermodynamics of Materials-2	5	English	Fall	Compulsory	Dr. Öğr. Üyesi Yasin Ramazan EKER
Undergraduate	tallurgical and Materials Engineer	MME223	Mechanical Metallurgy	5	English	Fall	Compulsory	Doç. Dr. Hasan KOTAN
Undergraduate	tallurgical and Materials Engineer	MME225	Fundamentals of Manufacturing Technologies	5	English	Fall	Compulsory	Dr. Öğr. Üyesi Hakan Burak KARADAĞ
Undergraduate	tallurgical and Materials Engineer	MME301	Phase Equilibria	4	English	Fall	Compulsory	Doç. Dr. Hasan KOTAN
Undergraduate	tallurgical and Materials Engineer	MME305	Metallic Materials and Metallography	4	English	Fall	Compulsory	Arş. Gör. Dr. Ahmet Burçin BATIBAY
Undergraduate	tallurgical and Materials Engineer	MME303	Materials Characterization	4	English	Fall	Compulsory	Dr. Öğr. Üyesi Muhammet Emre AYHAN
Undergraduate	tallurgical and Materials Engineer	MME307	Polymer Materials	4	English	Fall	Compulsory	Arş Gör. Dr. Hasan Hüseyin İPEKÇİ
Undergraduate	tallurgical and Materials Engineer	MME321	Iron and Steelmaking	4	English	Fall	Compulsory	Dr. Öğr. Üyesi Hakan Burak KARADAĞ

Undergraduate	tallurgical and Materials Engineer	MME325	Casting and Solidification	4	English	Fall	Compulsory	Prof. Dr. Ercan CANDAN
Undergraduate	tallurgical and Materials Engineer	MME401	Principles of Corrosion and Corrosion Protection	5	English	Fall	Compulsory	Dr. Öğr. Üyesi Yasin Ramazan EKER
Undergraduate	tallurgical and Materials Engineer	MME202	Extractive Metallurgy	4	English	Spring	Compulsory	Arş. Gör. Gökhan POLAT
Undergraduate	tallurgical and Materials Engineer	MME204	Thermodynamics of Materials-1	5	English	Spring	Compulsory	Dr. Öğr. Üyesi Yasin Ramazan EKER
Undergraduate	tallurgical and Materials Engineer	MME224	Materials Science-2	5	English	Spring	Compulsory	Dr. Öğr. Üyesi Hakan Burak KARADAĞ
Undergraduate	tallurgical and Materials Engineer	MME428	Biomaterials	4	English	Spring	Compulsory	Doç. Dr. Aytekin UZUNOĞLU
Undergraduate	tallurgical and Materials Engineer	MME304	Chemical Metallurgy	4	English	Spring	Compulsory	Arş. Gör. Gökhan POLAT
Undergraduate	tallurgical and Materials Engineer	MME322	Ceramic Materials	4	English	Spring	Compulsory	Dr. Öğr. Üyesi Tuba BAHTLI
Undergraduate	tallurgical and Materials Engineer	MME324	Kinetics	4	English	Spring	Compulsory	Dr. Öğr. Üyesi Yasin Ramazan EKER
Undergraduate	tallurgical and Materials Engineer	MME426	Nanomaterials	4	English	Spring	Compulsory	Arş Gör. Dr. Hasan Hüseyin İPEKÇİ
Undergraduate	tallurgical and Materials Engineer	MME406	Non-Destructive Testing of Materials	4	English	Spring	Compulsory	Dr. Öğr. Üyesi Hakan Burak KARADAĞ
Undergraduate	tallurgical and Materials Engineer	MME408	Composite Materials	4	English	Spring	Compulsory	Aytekin UZUNOĞLU
Undergraduate	tallurgical and Materials Engineer	MME326	Physical Metallurgy	4	English	Spring	Compulsory	Doç. Dr. Hasan KOTAN
Undergraduate	tallurgical and Materials Engineer	MME402	Non-ferrous Metal Metallurgy	5	English	Spring	Compulsory	Dr. Öğr. Üyesi Muhammet Emre AYHAN
Graduate	Mechanical Engineering	MAK102	Statics	5	English	Spring	Compulsory	Dr. Ali ÖZTÜRK
Graduate	Mechanical Engineering	MAK201	Materials 1	4	English	Fall	Compulsory	Assoc. Prof. Dr. Hasan KOTAN
Graduate	Mechanical Engineering	MAK207	Thermodynamics 1	5	English	Fall	Compulsory	Prof. Dr. Ali KAHRAMAN
Graduate	Mechanical Engineering	MAK227	Technical English 1	3	English	Fall	Elective	Dr. M. Numan KAYA
Graduate	Mechanical Engineering	MAK202	Materials 2	4	English	Spring	Compulsory	Assoc. Prof. Dr. Hasan KOTAN
Graduate	Mechanical Engineering	MAK208	Thermodynamics 2	5	English	Spring	Compulsory	Prof. Dr. Ali KAHRAMAN
Graduate	Mechanical Engineering	MAK222	Principles of Electrical and Electronics	3	English	Spring	Compulsory	Dr. Veysel ÜNSÜR
Graduate	Mechanical Engineering	MAK214	Energy Management	5	English	Spring	Elective	Prof. Dr. Muammer ÖZGÖREN
Graduate	Mechanical Engineering	MAK228	Technical English 2	5	English	Spring	Elective	Dr. M. Numan KAYA
Graduate	Mechanical Engineering	MAK230	Solar Energy Systems	5	English	Spring	Elective	Prof. Dr. Muammer ÖZGÖREN
Graduate	Mechanical Engineering	MAK303	Heat Transfer	5	English	Fall	Compulsory	Prof. Dr. Hüseyin KURT
Graduate	Mechanical Engineering	MAK311	Fluid Mechanics 1	3	English	Fall	Compulsory	Prof. Dr. Muammer ÖZGÖREN
Graduate	Mechanical Engineering	MAK320	Fluid Mechanics 2	3	English	Spring	Compulsory	Prof. Dr. Muammer ÖZGÖREN
Graduate	Mechanical Engineering	MAK332	Heat exchangers	6	English	Spring	Elective	Prof. Dr. Hüseyin KURT
Graduate	Mechanical Engineering	MAK439	Renewable Energy Sources	5	English	Fall	Elective	Prof. Dr. Muammer ÖZGÖREN
Graduate	Mechanical Engineering	MAK441	Wind Energy and Wind Turbine Technology	5	English	Fall	Elective	Dr. M. Numan KAYA
Graduate	Mechanical Engineering	MAK437	Computational Fluid Dynamics	5	English	Fall	Elective	Dr. M. Numan KAYA
Graduate	Biomedical Engineering		Medical Image Processing	8	English	Spring	Elective	Assist.Prof. Muhammet Üsame ÖZİÇ
Graduate	Biomedical Engineering		Biopolymers	8	English	Spring	Elective	Assist.Prof. Kemal ÇETİN
Graduate	Biomedical Engineering		Biomechanic	8	English	Fall	Elective	Prof.Dr. Ahmet AVCI
Graduate	Biomedical Engineering		Nanocomposites	8	English	Spring	Elective	Prof.Dr. Ahmet AVCI
Graduate	Biomedical Engineering		Molecular Biology of Cancer	8	English	Fall	Elective	Assoc. Prof. Dr. Meltem KARS