

EGE ÜNİVERSİTESİ / MÜHENDİSLİK FAKÜLTESİ

MAKİNA MÜHENDİSLİĞİ BÖLÜMÜ

2025-2026 ÖNERİLEN MÜFREDAT

Ders Kodu	Dersin Adı	Saat/Hafta				Kredisi	AKTS Kredisi	Dersin Türü
		Kuramsal	Uygulama	Pratik/ Laboratuvar	Toplam			
Yıl 1 / Yarıyıl 1								
507001012022	TURKISH LANGUAGE I	2	0	0	2	2	2	Compulsory
507001022022	PRINCIPLES OF ATATURK AND RECENT TURKISH HISTORY I	2	0	0	2	2	2	Compulsory
CAL1032023	CALCULUS-I	3	2	0	5	4	7	Compulsory
507001052016	PHYSICS I	3	0	2	5	4	6	Compulsory
507001062022	GENERAL CHEMISTRY	3	0	1	4	3,5	7	Compulsory
507001072022	TECHNICAL DRAWING	2	2	0	4	3	3	Compulsory
507001272022	INTRODUCTION TO MECHANICAL ENGINEERING	2	0	0	2	2	1	Compulsory
507001292022	CAREER PLANNING	1	0	0	1	1	2	Compulsory
TOPLAM		18,0	4,0	3,0	25,0	21,5	30,0	
Yıl 1 / Yarıyıl 2								
507000922022	TURKISH LANGUAGE II	2	0	0	2	2	2	Compulsory
507000942022	PRINCIPLES OF ATATURK AND RECENT TURKISH HISTORY II	2	0	0	2	2	2	Compulsory
CAL1042023	CALCULUS-II	3	2	0	5	4	7	Compulsory
507001122016	PHYSICS II	3	0	2	5	4	7	Compulsory
507001132018	STATICS	3	0	0	3	3	5	Compulsory
507001142022	COMPUTER AIDED TECHNICAL DRAWING	2	2	0	4	3	4	Compulsory
507001242018	TECHNICAL ENGLISH	3	0	0	3	3	3	Compulsory
TOPLAM		18,0	4,0	2,0	24,0	21,0	30,0	
Yıl 2 / Yarıyıl 1								
507002012022	THERMODYNAMICS I	3	0	0	3	3	4	Compulsory
507002022023	MATERIALS SCIENCE	3	0	0	3	3	4	Compulsory
507002132018	DYNAMICS	3	0	0	3	3	4	Compulsory
507002042018	STRENGTH OF MATERIALS	4	0	0	4	4	6	Compulsory
LAG2052023	LINEAR ALGEBRA	2	1	0	3	2,5	6	Compulsory
507002332023	ENGINEERING ECONOMICS	2	0	0	2	2	2	Compulsory
507002312023	COMPUTER PROGRAMMING	2	1	0	3	2,5	4	Compulsory
MDSD01	Müfredat Dışı Seçmeli Ders Grubu-I	0	0	0	0	2	0	
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - I (İSTEĞE BAĞLI)								
TOPLAM		19,0	2,0	0,0	21,0	22,0	30,0	
Yıl 2 / Yarıyıl 2								
507002302022	THERMODYNAMICS II	3	0	0	3	3	4	Compulsory
507002102022	ENGINEERING MATERIALS	3	0	1	4	3,5	4	Compulsory
507002122018	COMPUTATIONAL MECHANICS	2	1	0	3	2,5	5	Compulsory
	FUNDAMENTALS OF ELECTRICAL AND ELECTRONICS ENGINEERING	2	0	0	2	2	2	Compulsory
507002322018	FLUID MECHANICS	4	0	0	4	4	5	Compulsory
507002202022	TECHNICAL TRAINING I	0	0	0	0	0	4	Compulsory
DIF2222023	DIFFERENTIAL EQUATIONS	2	1	0	3	2,5	6	Compulsory
MDSD02	Müfredat Dışı Seçmeli Ders Grubu-II	0	0	0	0	2	0	
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - II (İSTEĞE BAĞLI)								
TOPLAM		16,0	2,0	1,0	19,0	19,5	30,0	
Yıl 3 / Yarıyıl 1								
507003012022	MACHINE ELEMENTS - I	3	0	0	3	3	3	Compulsory
507003052022	MECHANISM TECHNIQUE	3	0	0	3	3	3	Compulsory
507003072022	SYSTEM DYNAMICS AND CONTROL	3	0	0	3	3	3	Compulsory
507003272018	COMPUTATIONAL FLUID DYNAMICS	2	1	0	3	2,5	5	Compulsory
507003312018	NUMERICAL ANALYSIS	4	0	0	4	4	7	Compulsory
507003112018	HEAT TRANSFER	4	0	0	4	4	6	Compulsory
UNI.ELEC.COU.I	UNIVERSITY ELECTIVE COURSE-I	0	0	0	0	0	3	Elective

MDS03	Müfredat Dışı Seçmeli Ders Grubu-III	0	0	0	0	2	0	
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - III (İSTEĞE BAĞLI)								
TOPLAM		19,0	1,0	0,0	20,0	21,5	30,0	
Yıl 3 / Yarıyıl 2								
507003022022	MACHINE ELEMENTS - II	3	0	0	3	3	3	Compulsory
507003062022	MACHINE DYNAMICS	3	0	0	3	3	3	Compulsory
507003302018	STATISTICS	3	0	0	3	3	7	Compulsory
507003462022	PROJECT MANAGEMENT	2	0	0	2	2	1	Compulsory
507003322022	TECHNICAL TRAINING II	0	0	0	0	0	2	Compulsory
507003042022	MANUFACTURING PROCESSES	4	0	0	4	4	4	Compulsory
MDS04	Müfredat Dışı Seçmeli Ders Grubu-IV	0	0	0	0	2	0	
RTEC-I	RESTRICTED TECHNICAL ELECTIVE COURSE I	0	0	4	4	2	7	Elective
UNI.ELEC.CO.U.II	UNIVERSITY ELECTIVE COURSE-II	0	0	0	0	0	3	Elective
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - IV (İSTEĞE BAĞLI)								
TOPLAM		15,0	0,0	4,0	19,0	19,0	30,0	
Yıl 4 / Yarıyıl 1								
507004012022	GRADUATE PROJECT	0	2	0	2	1	2	Compulsory
507008472022	GRADUATE PROJECT ⁽¹⁾	0	4	0	4	2	4	Compulsory
507008012022	OCCUPATIONAL HEALTH AND SAFETY I	2	0	0	2	2	2	Compulsory
CHA002	CHILD RIGHTS AND FAMILY EDUCATION	1	0	0	1	1	2	Compulsory
RTEC-II	RESTRICTED TECHNICAL ELECTIVE COURSE II	0	4	0	4	2	12	Elective
TEKSECDERS-I	FREE TECHNICAL ELECTIVE COURSE I	2	0	0	2	2	4	Elective
TEKSECDERS-I	FREE TECHNICAL ELECTIVE COURSE I	2	0	0	2	2	4	Elective
TEKSECDERS-I	FREE TECHNICAL ELECTIVE COURSE I	2	0	0	2	2	4	Elective
MDS05	Müfredat Dışı Seçmeli Ders Grubu-V	0	0	0	0	2	0	
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - V (İSTEĞE BAĞLI)								
TOPLAM		9,0	6,0	0,0	15,0	14,0	30,0	
Yıl 4 / Yarıyıl 2								
507004012022	GRADUATE PROJECT	0	2	0	2	1	2	Compulsory
507008002022	GRADUATE PROJECT ⁽¹⁾	0	4	0	4	2	4	Compulsory
507008022022	OCCUPATIONAL HEALTH AND SAFETY II	2	0	0	2	2	2	Compulsory
507008222022	MACHINE LABORATORY	0	0	2	2	1	3	Compulsory
TEKSECDERS-II	FREE TECHNICAL ELECTIVE COURSE II	2	0	0	2	2	4	Elective
TEKSECDERS-II	FREE TECHNICAL ELECTIVE COURSE II	2	0	0	2	2	4	Elective
NON.TECH.ELEC.CO.U.RSE	NON-TECHNICAL ELECTIVE COURSE	2	0	0	2	2	3	Elective
RTEC-III	RESTRICTED TECHNICAL ELECTIVE COURSE III	0	4	0	4	2	12	Elective
MDS06	Müfredat Dışı Seçmeli Ders Grubu-VI	0	0	0	0	2	0	
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - VI (İSTEĞE BAĞLI)								
TOPLAM		8,0	6,0	2,0	16,0	14,0	30,0	

(1) : Mezun olacak durumda olan bir öğrenci, 7. veya 8. yarıyıllarda açılan Bitirme Tezini, mezun olabileceği dönemde alabilir.
(2) : Kayıtlı oldukları dönem mezun olabilecek durumda olan öğrenciler ise, (I) yerine (II) veya tersi grubu dersleri alabileceklerdir.

ÖNERİLEN MÜFREDATA AİT SEÇMELİ DERSLER 2025-2026

Ders Kodu	Dersin Adı	Saat/Hafta				Kredisi	AKTS Kredisi	Dersin Türü
		Kuramsal	Uygulama	Pratik/ Laboratuvar	Toplam			
Yıl 2/Yarıyıl 1								
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - I (İSTEĞE BAĞLI)								
PF201	Eğitime Giriş	3	0	0	3	3	4	
PF203	Öğretim İlke ve Yöntemleri	3	0	0	3	3	4	
Yıl 2/Yarıyıl 2								
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - II (İSTEĞE BAĞLI)								
PF202	Eğitimde Ölçme ve Değerlendirme	3	0	0	3	3	4	
PF204	Eğitim Psikolojisi	3	0	0	3	3	4	
Yıl 3/Yarıyıl 1								
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - III (İSTEĞE BAĞLI)								
PF301	Sınıf Yönetimi	2	0	0	2	2	3	
PF303	Özel Öğretim Yöntemleri	3	0	0	3	3	4	
Yıl 3/Yarıyıl 2								
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - IV (İSTEĞE BAĞLI)								
PF302	Öğretim Teknolojileri	2	0	0	2	2	3	
Yıl 4/Yarıyıl 1								
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - V (İSTEĞE BAĞLI)								
PF401	Rehberlik ve Özel Eğitim	3	0	0	3	3	4	
Yıl 4/Yarıyıl 2								
PEDAGOJİK FORMASYON SEÇMELİ DERS GRUBU - VI (İSTEĞE BAĞLI)								
PF402	Öğretmenlik Uygulamaları	1	8	0	9	5	10	
Yıl 3/Yarıyıl 1								
UNIVERSITY ELECTIVE COURSE-I (Bu seçmeli grubundan sadece 1 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 3 AKTS kredisi ders alınacaktır.)								
EAM305TE XM	TEXTILE MANUFACTURING PROCESS FROM FIBER TO GARMENT WITH THE INNOVATIVE E-LEARNING METHODS	2	0	0	2	2	3	Elective
EMYO301B CP	BASIC COMPUTER PROGRAMMING WITH MATLAB	2	0	0	2	2	3	Elective
ENF309VM	DATA MINING	2	0	0	2	2	3	Elective
FEN305UPL	UNDERSTANDING PLANT LIFE	2	0	0	2	2	3	Elective
HEM305GH FA	GENERAL HEALTH AND FIRST AID	2	0	0	2	2	3	Elective
MÜH311INT M	INTRODUCTION TO MECHATRONICS	3	0	0	3	3	3	Elective
MÜH315BA BI	BACTERIA, BIOFILM AND BIOLOGICAL DENITRIFICATION	2	0	0	2	2	3	Elective
MÜH317DW T	DRINKING AND WASTE WATER TECHNOLOGY	2	0	0	2	2	3	Elective
MÜH321INTX	INTRODUCTION TO TEXTILES	2	0	0	2	2	3	Elective
YEN305EFB E	ENGLISH FOR BUSINESS AND ENTREPRENEURSHIP	2	0	0	2	2	3	Elective
ZİR305HLAN	HEALTHY LIFE AND NUTRITION	2	0	0	2	2	3	Elective
Yıl 3/Yarıyıl 2								
UNIVERSITY ELECTIVE COURSE-II (Bu seçmeli grubundan sadece 1 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 3 AKTS kredisi ders alınacaktır.)								
EĞT306CC DG	CAREER COUNSELING WITH DISADVANTAGED GROUPS	2	0	0	2	2	3	Elective

EMYO301B CP	BASIC COMPUTER PROGRAMMING WITH MATLAB	2	0	0	2	2	3	Elective
FEN306FU ND	FUNDEMENTAL PRINCIPLES OF LIFE	2	0	0	2	2	3	Elective
MÜH308AL EF	ALTERNATIVE ENGINES AND FUELS	3	0	0	3	3	3	Elective
MÜH312GC ST	GREEN CHEMISTRY AND SUSTAINABLE TECHNOLOGIES	2	0	0	2	2	3	Elective
MÜH314INT B	INTRODUCTION TO BIOMECHANICS	2	0	0	2	2	3	Elective
ZİR310FDP	FUNCTIONAL DAIRY PRODUCTS	2	0	0	2	2	3	Elective
Yıl 3/Yarıyıl 2								
RESTRICTED TECHNICAL ELECTIVE COURSE I (Bu seçmeli grubundan sadece 1 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 7 AKTS kredisi ders alınacaktır.)								
5070034420 24	MICROCONTROLLER APPLICATIONS & MECHATRONIC WORKSHOP	0	0	4	4	2	7	Elective
Yıl 4/Yarıyıl 1								
RESTRICTED TECHNICAL ELECTIVE COURSE II (Bu seçmeli grubundan sadece 1 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 12 AKTS kredisi ders alınacaktır.)								
507004092024	MACHINE PROJECT I	0	4	0	4	2	12	Elective
Yıl 4/Yarıyıl 1								
FREE TECHNICAL ELECTIVE COURSE I (Bu seçmeli grubundan sadece 3 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 12 AKTS kredisi ders alınacaktır.)								
507008172020	ADVANCED COMPUTER PROGRAMMING & APPLICATIONS	2	0	0	2	2	4	Elective
507008192020	NUMERICAL HEAT TRANSFER	2	0	0	2	2	4	Elective
507008212020	INTRODUCTION TO ROCKET TECHNOLOGY	2	0	0	2	2	4	Elective
507004192020	NUMERICAL THERMODYNAMICS	2	0	0	2	2	4	Elective
507004932020	WIND ENERGY ENGINEERING	2	0	0	2	2	4	Elective
507004372020	HYDRAULIC MACHINES	2	0	0	2	2	4	Elective
507008432022	CLIMATISATION TECHNIQUES	2	0	0	2	2	4	Elective
507008452022	GAS DYNAMICS	2	0	0	2	2	4	Elective
507004392020	DESIGN OF THERMAL SYSTEMS	2	0	0	2	2	4	Elective
507008492022	SOLAR ENERGY AND ITS APPLICATIONS	2	0	0	2	2	4	Elective
507008512022	STEAM BOILERS	2	0	0	2	2	4	Elective
507008532022	ENERGY TRANSFORMATIONS	2	0	0	2	2	4	Elective
507004532020	INTRODUCTION TO COMBUSTION	2	0	0	2	2	4	Elective
507008112020	THERMAL SYSTEM COMPUTER MODELLING	2	0	0	2	2	4	Elective
507008552022	INDUSTRIAL ENERGY MANAGEMENT I	2	0	0	2	2	4	Elective
507008572022	ENERGY SYSTEMS MEASUREMENTS AND CONTROL DESIGN	2	0	0	2	2	4	Elective
507008592022	HYDRAULIC SYSTEMS	2	0	0	2	2	4	Elective
507008612022	MOTORS	2	0	0	2	2	4	Elective
507008632022	AUTOMOTIVE CONTROL SYSTEMS	2	0	0	2	2	4	Elective
507008652022	INTRODUCTION TO FRACTURE MECHANICS	2	0	0	2	2	4	Elective
507008672022	MATERIAL REMOVAL PROCESSES	2	0	0	2	2	4	Elective
507008692022	MECHANICAL VIBRATIONS	2	0	0	2	2	4	Elective
507008712022	INTRODUCTION TO THEORY OF ELASTICITY	2	0	0	2	2	4	Elective
507008732022	ADVANCED STRENGTH OF MATERIALS	2	0	0	2	2	4	Elective
507004652020	INTRODUCTION TO COMPOSITE MATERIALS	2	0	0	2	2	4	Elective
507008752022	WELDING TECHNIQUES	2	0	0	2	2	4	Elective
	MATERIALS SELECTION	2	0	0	2	2	4	Elective
507008792022	MANUFACTURING METHODS OF POLYMER	2	0	0	2	2	4	Elective
507008812022	PLASTIC FORMING OF METALS	2	0	0	2	2	4	Elective
507008832022	INTRODUCTION TO PHOTONICS ENGINEERING	2	0	0	2	2	4	Elective
507008852022	MAINTANENCE ENGINEERING	2	0	0	2	2	4	Elective
507008872022	QUALITY CONTROL	2	0	0	2	2	4	Elective
507008892022	FACTORY ORGANIZATION	2	0	0	2	2	4	Elective

507008332020	INTRODUCTION TO NANOCOMPOSITES	2	0	0	2	2	4	Elective
507008912022	HEAT CONDUCTION	2	0	0	2	2	4	Elective
507008932022	HEAT CONVECTION	2	0	0	2	2	4	Elective
507008952022	PIPE FLOW	2	0	0	2	2	4	Elective
507008972022	GAS TURBINES	2	0	0	2	2	4	Elective
	MACHINE LEARNING APPLICATIONS IN MECHANICAL ENGINEERING	2	0	0	2	2	4	Elective
Yıl 4/Yarıyıl 2								
RESTRICTED TECHNICAL ELECTIVE COURSE II (Bu seçmeli grubundan sadece 1 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 12 AKTS kredisi ders alınacaktır.)								
507008842024	MACHINE PROJECT II	0	4	0	4	2	12	Elective
Yıl 4/Yarıyıl 2								
FREE TECHNICAL ELECTIVE COURSE II (Bu seçmeli grubundan sadece 3 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 8 AKTS kredisi ders alınacaktır.)								
507008382022	ANALYSIS AND SOLUTION OF ENGINEERING SYSTEMS	2	0	0	2	2	4	Elective
507008402022	COMPUTER AIDED VIBRATION SIMULATIONS	2	0	0	2	2	4	Elective
507008422022	COMPUTER AIDED STRUCTURAL ANALYSIS	2	0	0	2	2	4	Elective
507008142020	THE FINITE ELEMENT METHOD	2	0	0	2	2	4	Elective
507004642020	ADVANCED COMPUTER PROGRAMMING	2	0	0	2	2	4	Elective
507004962020	INDUSTRIAL FANS	2	0	0	2	2	4	Elective
507004162020	FUELS AND COMBUSTION SYSTEMS	2	0	0	2	2	4	Elective
507008442022	REFRIGERATION TECHNIQUES	2	0	0	2	2	4	Elective
507008462022	DESIGN OF CLIMATIZATION SYSTEMS	2	0	0	2	2	4	Elective
507008482022	INDUSTRIAL ENERGY MANAGEMENT II	2	0	0	2	2	4	Elective
507008502022	RENEWABLE ENERGY SYSTEMS	2	0	0	2	2	4	Elective
507008522022	HEAT RADIATION	2	0	0	2	2	4	Elective
507004242020	INTRODUCTION TO MECHANICS OF COMPOSITE MATERIALS	2	0	0	2	2	4	Elective
507008542022	INTRODUCTION TO THEORY OF PLASTICITY	2	0	0	2	2	4	Elective
507008562022	INTRODUCTION TO MECHATRONICS	2	0	0	2	2	4	Elective
507008582022	MATERIAL INSPECTION METHODS	2	0	0	2	2	4	Elective
507008602022	NUMERICAL CONTROLLED MACHINES	2	0	0	2	2	4	Elective
507008622022	INTRODUCTION TO THE THEORY OF STABILITY	2	0	0	2	2	4	Elective
507004702020	INTRODUCTION TO ROBOTICS	2	0	0	2	2	4	Elective
507008642022	POLYMERIC TECHNOLOGY	2	0	0	2	2	4	Elective
507008662022	POWDER METALLURGY	2	0	0	2	2	4	Elective
507008682022	POLYMERIC COMPOSITE TEST METHODS	2	0	0	2	2	4	Elective
507008702022	NONTRADITIONAL MANUFACTURING	2	0	0	2	2	4	Elective
507008722022	INDUSTRIAL ACOUSTICS AND NOISE	2	0	0	2	2	4	Elective
507004982020	INTRODUCTION TO NANOSCIENCE AND NANOTECHNOLOGY	2	0	0	2	2	4	Elective
507004262020	INTRODUCTION TO BIOMECHANICS	2	0	0	2	2	4	Elective
507008742022	LEAN PRODUCTION AND ENERGY MANAGEMENT	2	0	0	2	2	4	Elective
507008762022	HEATING TECHNIQUES	2	0	0	2	2	4	Elective
507008782022	HEAT EXCHANGERS	2	0	0	2	2	4	Elective
507008802022	CASTING TECHNOLOGY	2	0	0	2	2	4	Elective
507008822022	FUNDAMENTALS OF EXERGY ANALYSIS	2	0	0	2	2	4	Elective
507008992023	ADVANCED COMPUTATIONAL FLUID DYNAMICS	2	0	0	2	2	4	Elective
Yıl 4/Yarıyıl 2								
NON-TECHNICAL ELECTIVE COURSE (Bu seçmeli grubundan sadece 1 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 3 AKTS kredisi ders alınacaktır.)								
MAK4182022	HUMAN RESOURCE MANAGEMENT	2	0	0	2	2	3	Elective
MAK4042022	MARKETING	2	0	0	2	2	3	Elective
MTY4022022	BASIS OF BUSINESS MANAGEMENT AND MANAGERIAL SKILLS FOR ENGINEERS	2	0	0	2	2	3	Elective
MAK4062022	ENTREPRENEURSHIP FOR QUALITY	2	0	0	2	2	3	Elective

INT4042022	COMMERCIALIZATION OF INNOVATION AND ENTREPRENEURSHIP	2	0	0	2	2	3	Elective
GIP4022022	ENTREPRENEURSHIP AND PREPARATION OF BUSINESS PLAN	2	0	0	2	2	3	Elective
MAK4582022	FUNDAMENTALS OF COMMUNICATION	2	0	0	2	2	3	Elective
GID4062022	FUNDAMENTALS OF LAW	2	0	0	2	2	3	Elective
GID4082022	MANAGEMENT OF HUMAN RESOURCES	2	0	0	2	2	3	Elective
MAK4602022	PUBLIC AFFAIRS	2	0	0	2	2	3	Elective
GID4122022	TECHNICAL FOREIGN LANGUAGE II	2	0	0	2	2	3	Elective
GID4142022	MARKETING	2	0	0	2	2	3	Elective
GID4162022	READING AND WRITING SKILLS	2	0	0	2	2	3	Elective
GRE4022022	ENTREPRENEURSHIP	2	0	0	2	2	3	Elective
MAK424	HISTORY OF ENGINEERING SCIENCES	2	0	0	2	2	3	Elective
MAK4102022	BUSINESS LAW AT ENGINEERING	2	0	0	2	2	3	Elective
MAK4122022	INTRODUCTION TO COMPUTER	2	0	0	2	2	3	Elective
MAK4142022	INTRODUCTION TO UNIVERSITY LIFE	2	0	0	2	2	3	Elective
MAK4162022	COMMUNITY SERVICES ACTIVITIES	2	0	0	2	2	3	Elective
AKT4022022	ACADEMIC TURKISH	2	0	0	2	2	3	Elective