

## MÜHENDİSLİK FAKÜLTESİ/MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ

## 2023-2024 EĞİTİM PLANI

Ders Kodu	Dersin Adı	Saat/Hafta				Kredisi	AKTS Kredisi	Dersin Türü
		Kuramsal	Uygulama	Pratik/ Laboratuv	Toplam			
<b>Yıl 1 / Yarıyıl 1</b>								
507001012022	TURKISH LANGUAGE I	2	0	0	2	2	2	Zorunlu
507001022022	PRINCIPLES OF ATATURK AND RECENT TURKISH HISTORY I	2	0	0	2	2	2	Zorunlu
	CALCULUS-I	3	2	0	5	4	7	Zorunlu
507001052016	PHYSICS I	3	0	2	5	4	6	Zorunlu
507001062022	GENERAL CHEMISTRY	3	0	1	4	3,5	7	Zorunlu
	TECHNICAL DRAWING	2	2	0	4	3	3	Zorunlu
507001272022	INTRODUCTION TO MECHANICAL ENGINEERING	2	0	0	2	2	1	Zorunlu
507001292022	CAREER PLANNING	1	0	0	1	1	2	Zorunlu
TOPLAM		18,0	4,0	3,0	25,0	21,5	<b>30,0</b>	
<b>Yıl 1 / Yarıyıl 2</b>								
507000922022	TURKISH LANGUAGE II	2	0	0	2	2	2	Zorunlu
507000942022	PRINCIPLES OF ATATURK AND RECENT TURKISH HISTORY II	2	0	0	2	2	2	Zorunlu
507001112022	CALCULUS-II	3	2	0	5	4	7	Zorunlu
507001122016	PHYSICS II	3	0	2	5	4	7	Zorunlu
507001132018	STATICS	3	0	0	3	3	5	Zorunlu
507001142022	COMPUTER AIDED TECHNICAL DRAWING	2	2	0	4	3	4	Zorunlu
507001242018	TECHNICAL ENGLISH	3	0	0	3	3	3	Zorunlu
TOPLAM		18,0	4,0	2,0	24,0	21,0	<b>30,0</b>	
<b>Yıl 2 / Yarıyıl 1</b>								
507002012022	THERMODYNAMICS I	3	0	0	3	3	4	Zorunlu
	MATERIALS SCIENCE	3	0	0	3	3	4	Zorunlu
	STRENGTH OF MATERIALS	4	0	0	4	4	6	Zorunlu
507002132018	DYNAMICS	3	0	0	3	3	4	Zorunlu
	LINEAR ALGEBRA	2	1	0	3	2,5	6	Zorunlu
	ENGINEERING ECONOMICS	2	0	0	2	2	2	Zorunlu
	COMPUTER PROGRAMMING	2	1	0	3	2,5	4	Zorunlu
TOPLAM		19,0	2,0	0,0	21,0	20,0	<b>30,0</b>	
<b>Yıl 2 / Yarıyıl 2</b>								
507002302022	THERMODYNAMICS II	3	0	0	3	3	4	Zorunlu
507002102022	ENGINEERING MATERIALS	3	0	1	4	3,5	4	Zorunlu
507002122018	COMPUTATIONAL MECHANICS	2	1	0	3	2,5	5	Zorunlu
507002062022	FUNDAMENTALS TO ELECTRICAL AND ELECTRONICS ENGINEERING	2	0	0	2	2	2	Zorunlu
507002322018	FLUID MECHANICS	4	0	0	4	4	5	Zorunlu
507002202022	TECHNICAL TRAINING I	0	0	0	0	0	4	Zorunlu
	DIFFERENTIAL EQUATIONS	2	1	0	3	2,5	6	Zorunlu
TOPLAM		16,0	2,0	1,0	19,0	17,5	<b>30,0</b>	
<b>Yıl 3 / Yarıyıl 1</b>								
507003012022	MACHINE ELEMENTS - I	3	0	0	3	3	3	Zorunlu
507003052022	MECHANISM TECHNIQUE	3	0	0	3	3	3	Zorunlu
507003072022	SYSTEM DYNAMICS AND CONTROL	3	0	0	3	3	3	Zorunlu
507003272018	COMPUTATIONAL FLUID DYNAMICS	2	1	0	3	2,5	5	Zorunlu
507003312018	NUMERICAL ANALYSIS	4	0	0	4	4	7	Zorunlu
507003112018	HEAT TRANSFER	4	0	0	4	4	6	Zorunlu
UNI.ELEC.CO.U.I	UNIVERSITY ELECTIVE COURSE-I	0	0	0	0	0	3	Zorunlu
TOPLAM		19,0	1,0	0,0	20,0	19,5	<b>30,0</b>	

Yil 3 / Yarıyıl 2								
507003022022	MACHINE ELEMENTS - II	3	0	0	3	3	3	Zorunlu
507003062022	MACHINE DYNAMICS	3	0	0	3	3	3	Zorunlu
507003302018	STATISTICS	3	0	0	3	3	7	Zorunlu
	MICROCONTROLLER APPLICATIONS	0	0	4	4	2	4	Zorunlu
507003462022	PROJECT MANAGEMENT	2	0	0	2	2	1	Zorunlu
	MECHATRONIC WORKSHOP	0	0	4	4	2	3	Zorunlu
507003322022	TECHNICAL TRAINING II	0	0	0	0	0	2	Zorunlu
507003042022	MANUFACTURING PROCESSES	4	0	0	4	4	4	Zorunlu
UNI.ELEC.CO.U.II	UNIVERSITY ELECTIVE COURSE-II	0	0	0	0	0	3	Zorunlu
TOPLAM		15,0	0,0	8,0	23,0	19,0	30,0	
Yil 4 / Yarıyıl 1								
507004012022	GRADUATE PROJECT	0	2	0	2	1	7	Zorunlu
507008472022	GRADUATE PROJECT <sup>(1)</sup>	0	4	0	4	2	14	Zorunlu
507008012022	OCCUPATIONAL HEALTH AND SAFETY I	2	0	0	2	2	2	Zorunlu
507008152022	INNOVATION, TECHNOLOGY AND ENTREPRENEURSHIP	2	0	0	2	2	2	Zorunlu
507004092022	MACHINE PROJECT	0	2	0	2	1	7	Zorunlu
TEKSECDERS-I	TECHNICAL ELECTIVE COURSE I	2	0	0	2	2	4	Seçmeli
TEKSECDERS-I	TECHNICAL ELECTIVE COURSE I	2	0	0	2	2	4	Seçmeli
TEKSECDERS-I	TECHNICAL ELECTIVE COURSE I	2	0	0	2	2	4	Seçmeli
TOPLAM		10,0	4,0	0,0	14,0	12,0	30,0	
Yil 4 / Yarıyıl 2								
507004012022	GRADUATE PROJECT	0	2	0	2	1	7	Zorunlu
507008002022	GRADUATE PROJECT <sup>(1)</sup>	0	4	0	4	2	14	Zorunlu
507008022022	OCCUPATIONAL HEALTH AND SAFETY II	2	0	0	2	2	2	Zorunlu
507008222022	MACHINE LABORATORY	0	0	2	2	1	6	Zorunlu
TEKSECDERS-II	TECHNICAL ELECTIVE COURSE II	2	0	0	2	2	4	Seçmeli
TEKSECDERS-II	TECHNICAL ELECTIVE COURSE II	2	0	0	2	2	4	Seçmeli
TEKSECDERS-II	TECHNICAL ELECTIVE COURSE II	2	0	0	2	2	4	Seçmeli
NON.TECH.ELEC.CO URSE	NON-TECHNICAL ELECTIVE COURSE	2	0	0	2	2	3	Seçmeli
TOPLAM		10,0	2,0	2,0	14,0	12,0	30,0	
<p>(1) : Mezun olacak durumda olan bir öğrenci, 7. veya 8. yarıyılarda açılan Bitirme Tezini, mezun olabileceği dönemde alabilir.</p> <p>(2) : Kayıtlı oldukları dönem mezun olabilecek durumda olan öğrenciler ise, (I) yerine (II) veya tersi grubu dersleri alabileceklerdir.</p>								

SEÇMELİ DERSLER 2023-2024								
Ders Kodu	Dersin Adı	Saat/Hafta				Kredisi	AKTS Kredisi	Dersin Türü
		Kuramsal	Uygulama	Pratik/ Laboratuvar	Toplam			
<b>Yıl 3/Yarıyıl 1</b>								
<b>UNIVERSITY ELECTIVE COURSE-I (Bu seçmeli grubundan sadece 1 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 3 AKTS kredisi ders</b>								
503003572010	BACTERIA,BIOFILM AND BIOLOGICAL DENITRIFICATION	2	0	0	2	2	3	Seçmeli
503004491999	DRINKING AND WASTE WATER TECHNOLOGY	2	0	0	2	2	3	Seçmeli
507004652020	INTRODUCTION TO COMPOSITE MATERIALS	2	0	0	2	2	3	Seçmeli
HEM305GHFA	GENERAL HEALTH AND FIRST AID	2	0	0	2	2	3	Seçmeli
TE733	INTRODUCTION TO TEXTILE ENGINEERING	2	0	0	2	2	3	Seçmeli
Tip314ONH	OPTIMUM NUTRITION FOR HEALTH	2	0	0	2	2	3	Seçmeli
<b>Yıl 3/Yarıyıl 2</b>								
<b>UNIVERSITY ELECTIVE COURSE-II (Bu seçmeli grubundan sadece 1 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 3 AKTS kredisi ders</b>								
11320203E11842	CURRENT ISSUES IN MANAGEMENT	3	0	0	3	3	3	Seçmeli
1302009042018	STRATEGIC BRAND MANAGEMENT	3	0	0	3	3	3	Seçmeli
503004602019	INOVATATION, TECHNOLOGY AND ENTREPRENEURSHIP	2	0	0	2	2	3	Seçmeli
503004622019	ENTREPRENEURSHIP AND INTRODUCTION TO INTELLECTUAL PROPERTY RIGHTS	2	0	0	2	2	3	Seçmeli
507004262020	INTRODUCTION TO BIOMECHANICS	2	0	0	2	2	3	Seçmeli
FEN306FUND	FUNDEMENTAL PRINCIPLES OF LIFE	2	0	0	2	2	3	Seçmeli
Hem312GenH	GENERAL HEALTH AND FIRST AID COURSE	2	0	0	2	2	3	Seçmeli
Tip314ONH	OPTIMUM NUTRITION FOR HEALTH	2	0	0	2	2	3	Seçmeli
<b>Yıl 4/Yarıyıl 1</b>								
<b>TECHNICAL ELECTIVE COURSE I (Bu seçmeli grubundan sadece 3 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 12 AKTS kredisi ders</b>								
507008172020	ADVANCED COMPUTER PROGRAMMING & APPLICATIONS	2	0	0	2	2	4	Seçmeli
507008192020	NUMERICAL HEAT TRANSFER	2	0	0	2	2	4	Seçmeli
507008212020	INTRODUCTION TO ROCKET TECHNOLOGY	2	0	0	2	2	4	Seçmeli
507004192020	NUMERICAL THERMODYNAMICS	2	0	0	2	2	4	Seçmeli
507004932020	WIND ENERGY ENGINEERING	2	0	0	2	2	4	Seçmeli
507004372020	HYDRAULIC MACHINES	2	0	0	2	2	4	Seçmeli
507008432022	CLIMATISATION TECHNIQUES	2	0	0	2	2	4	Seçmeli
507008452022	GAS DYNAMICS	2	0	0	2	2	4	Seçmeli
507004392020	DESIGN OF THERMAL SYSTEMS	2	0	0	2	2	4	Seçmeli
507008492022	SOLAR ENERGY AND ITS APPLICATIONS	2	0	0	2	2	4	Seçmeli
507008512022	STEAM BOILERS	2	0	0	2	2	4	Seçmeli
507008532022	ENERGY TRANSFORMATIONS	2	0	0	2	2	4	Seçmeli
507004532020	INTRODUCTION TO COMBUSTION	2	0	0	2	2	4	Seçmeli
507008112020	THERMAL SYSTEM COMPUTER MODELLING	2	0	0	2	2	4	Seçmeli
507008552022	INDUSTRIAL ENERGY MANAGEMENT I	2	0	0	2	2	4	Seçmeli
507008572022	ENERGY SYSTEMS MEASUREMENTS AND CONTROL DESIGN	2	0	0	2	2	4	Seçmeli
507008592022	HYDRAULIC SYSTEMS	2	0	0	2	2	4	Seçmeli
507008612022	MOTORS	2	0	0	2	2	4	Seçmeli
507008632022	AUTOMOTIVE CONTROL SYSTEMS	2	0	0	2	2	4	Seçmeli
507008652022	INTRODUCTION TO FRACTURE MECHANICS	2	0	0	2	2	4	Seçmeli
507008672022	MATERIAL REMOVAL PROCESSES	2	0	0	2	2	4	Seçmeli
507008692022	MECHANICAL VIBRATRONS	2	0	0	2	2	4	Seçmeli
507008712022	INTRODUCTION TO THEORY OF ELASTICITY	2	0	0	2	2	4	Seçmeli
507008732022	ADVANCED STRENGTH OF MATERIALS	2	0	0	2	2	4	Seçmeli
507004652020	INTRODUCTION TO COMPOSITE MATERIALS	2	0	0	2	2	4	Seçmeli

507008752022	WELDING TECHNIQUES	2	0	0	2	2	4	Seçmeli
507008772022	SELECTING OF MATERIALS	2	0	0	2	2	4	Seçmeli
507008792022	MANUFACTURING METHODS OF POLYMER	2	0	0	2	2	4	Seçmeli
507008812022	PLASTIC FORMING OF METALS	2	0	0	2	2	4	Seçmeli
507008832022	INTRODUCTION TO PHOTONICS ENGINEERING	2	0	0	2	2	4	Seçmeli
507008852022	MAINTANENCE ENGINEERING	2	0	0	2	2	4	Seçmeli
507008872022	QUALITY CONTROL	2	0	0	2	2	4	Seçmeli
507008892022	FACTORY ORGANIZATION	2	0	0	2	2	4	Seçmeli
507008332020	INTRODUCTION TO NANOCOMPOSITES	2	0	0	2	2	4	Seçmeli
507008352020	INTRODUCTION TO MEDICAL DEVICE DESIGN	2	0	0	2	2	4	Seçmeli
507008912022	HEAT CONDUCTION	2	0	0	2	2	4	Seçmeli
507008932022	HEAT CONVECTION	2	0	0	2	2	4	Seçmeli
507008952022	PIPE FLOW	2	0	0	2	2	4	Seçmeli
507008972022	GAS TURBINES	2	0	0	2	2	4	Seçmeli

**Yıl 4/Yarıyıl 2**

**TECHNICAL ELECTIVE COURSE II (Bu seçmeli grubundan sadece 3 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 12 AKTS kredisi ders**

507008382022	ANALYSIS AND SOLUTION OF ENGINEERING SYSTEMS	2	0	0	2	2	4	Seçmeli
507008402022	COMPUTER AIDED VIBRATION SIMULATIONS	2	0	0	2	2	4	Seçmeli
507008422022	COMPUTER AIDED STRUCTURAL ANALYSIS	2	0	0	2	2	4	Seçmeli
507008142020	THE FINITE ELEMENT METHOD	2	0	0	2	2	4	Seçmeli
507004642020	ADVANCED COMPUTER PROGRAMMING	2	0	0	2	2	4	Seçmeli
507004962020	INDUSTRIAL FANS	2	0	0	2	2	4	Seçmeli
507004162020	FUELS AND COMBUSTION SYSTEMS	2	0	0	2	2	4	Seçmeli
507008442022	REFRIGERATION TECHNIQUES	2	0	0	2	2	4	Seçmeli
507008462022	DESIGN OF CLIMATIZATION SYSTEMS	2	0	0	2	2	4	Seçmeli
507008482022	INDUSTRIAL ENERGY MANAGEMENT II	2	0	0	2	2	4	Seçmeli
507008502022	RENEWABLE ENERGY SYSTEMS	2	0	0	2	2	4	Seçmeli
507008522022	HEAT RADIATION	2	0	0	2	2	4	Seçmeli
507004242020	INTRODUCTION TO MECHANICS OF COMPOSITE MATERIALS	2	0	0	2	2	4	Seçmeli
507008542022	INTRODUCTION TO THEORY OF PLASTICITY	2	0	0	2	2	4	Seçmeli
507008562022	INTRODUCTION TO MECHATRONICS	2	0	0	2	2	4	Seçmeli
507008582022	MATERIAL INSPECTION METHODS	2	0	0	2	2	4	Seçmeli
507008602022	NUMERICAL CONTROLLED MACHINES	2	0	0	2	2	4	Seçmeli
507008622022	INTRODUCTION TO THE THEORY OF STABILITY	2	0	0	2	2	4	Seçmeli
507004702020	INTRODUCTION TO ROBOTICS	2	0	0	2	2	4	Seçmeli
507008642022	POLYMERIC TECHNOLOGY	2	0	0	2	2	4	Seçmeli
507008662022	POWDER METALLURGY	2	0	0	2	2	4	Seçmeli
507008682022	POLYMERIC COMPOSITE TEST METHODS	2	0	0	2	2	4	Seçmeli
507008702022	NONTRADITIONAL MANUFACTURING	2	0	0	2	2	4	Seçmeli
507008722022	INDUSTRIAL ACOUSTICS AND NOISE	2	0	0	2	2	4	Seçmeli
507004982020	INTRODUCTION TO NANOSCIENCE AND NANOTECHNOLOGY	2	0	0	2	2	4	Seçmeli
507004262020	INTRODUCTION TO BIOMECHANICS	2	0	0	2	2	4	Seçmeli
507008242020	INTRODUCTION TO MEDICAL IMAGING SYSTEMS	2	0	0	2	2	4	Seçmeli
507008742022	LEAN PRODUCTION AND ENERGY MANAGEMENT	2	0	0	2	2	4	Seçmeli
507008762022	HEATING TECHNIQUES	2	0	0	2	2	4	Seçmeli
507008782022	HEAT EXHANGERS	2	0	0	2	2	4	Seçmeli
507008802022	CASTING TECHNOLOGY	2	0	0	2	2	4	Seçmeli
507008822022	FUNDAMENTALS OF EXERGY ANALYSIS	2	0	0	2	2	4	Seçmeli
	ADVANCED COMPUTATIONAL FLUID DYNAMICS	2	0	0	2	2	4	Seçmeli

**Yıl 4/Yarıyıl 2**

NON-TECHNICAL ELECTIVE COURSE (Bu seçmeli grubundan sadece 1 ders alınacaktır.)/ (Bu seçmeli grubundan toplam 3 AKTS kredisi ders								
MAK4182022	HUMAN RESOURCE MANAGEMENT	2	0	0	2	2	3	Seçmeli
MAK4042022	MARKETING	2	0	0	2	2	3	Seçmeli
MTY4022022	BASIS OF BUSINESS MANAGEMENT AND MANAGERIAL SKILLS FOR ENGINEERS	2	0	0	2	2	3	Seçmeli
MAK4062022	ENTREPRENEURSHIP FOR QUALITY	2	0	0	2	2	3	Seçmeli
INT4042022	COMMERCIALIZATION OF INNOVATION AND ENTREPRENEURSHIP	2	0	0	2	2	3	Seçmeli
GIP4022022	ENTREPRENEURSHIP AND PREPARATION OF BUSINESS PLAN	2	0	0	2	2	3	Seçmeli
MAK4582022	FUNDAMENTALS OF COMMUNICATION	2	0	0	2	2	3	Seçmeli
GID4062022	FUNDAMENTALS OF LAW	2	0	0	2	2	3	Seçmeli
GID4082022	MANAGEMENT OF HUMAN RESOURCES	2	0	0	2	2	3	Seçmeli
MAK4602022	PUBLIC AFFAIRS	2	0	0	2	2	3	Seçmeli
GID4122022	TECHNICAL FOREIGN LANGUAGE II	2	0	0	2	2	3	Seçmeli
GID4142022	MARKETING	2	0	0	2	2	3	Seçmeli
GID4162022	READING AND WRITING SKILLS	2	0	0	2	2	3	Seçmeli
GRE4022022	ENTREPRENEURSHIP	2	0	0	2	2	3	Seçmeli
MAK424	HISTORY OF ENGINEERING SCIENCES	2	0	0	2	2	3	Seçmeli
MAK4102022	BUSINESS LAW AT ENGINEERING	2	0	0	2	2	3	Seçmeli
MAK4122022	INTRODUCTION TO COMPUTER	2	0	0	2	2	3	Seçmeli
MAK4142022	INTRODUCTION TO UNIVERSITY LIFE	2	0	0	2	2	3	Seçmeli
MAK4162022	COMMUNITY SERVICES ACTIVITIES	2	0	0	2	2	3	Seçmeli
AKT4022022	ACADEMIC TURKISH	2	0	0	2	2	3	Seçmeli