

ALANYA ALAADDİN KEYKUBAT ÜNİVERSİTESİ
MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ 2018 MÜFREDATI

Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
MAK 101E	Introduction to Mech. Engineering	2.0	2	0	0	2	TM	Z	1	E
BIL 101E	Intro. to Comp. and Info. Systems	1.5	1	1	0	2	TM	Z	1	E
MAT 101E	Mathematics I	4.0	3	2	0	5	TB	Z	1	E
FIZ 101E	Physics I	3.0	3	0	0	4	TB	Z	1	E
FIZ 101EL	Physics I Lab.	1.0	0	0	2	1	TB	Z	1	E
KIM 101E	Chemistry	3.0	3	0	0	4	TB	Z	1	E
KIM 101EL	Chemistry Lab.	1.0	0	0	2	1	TB	Z	1	E
MAK 103E	Technical Drawing	3.0	2	2	0	5	TM	Z	1	E
TDB 101	Türk Dili I	2.0	2	0	0	2	ITB	Z	1	T
YDE 170E	Academic Language Skills	3.0	3	0	0	4	ITB	Z	1	E
Dönem 1:		23.5	19	5	4	30				
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
MAK 100E	Machine Shop Practice	0.0	0	0	8	0	TM	Z	2	E
MAT 102E	Mathematics II	4.0	3	2	0	5	TB	Z	2	E
FIZ 102E	Physics II	3.0	3	0	0	4	TB	Z	2	E
FIZ 102EL	Physics II Lab.	1.0	0	0	2	1	TB	Z	2	E
BIL 106E	Intoduction to Programming C	3.0	2	0	2	5	TM	Z	2	E
MAT 108E	Linear Algebra	3.0	3	0	0	4	TB	Z	2	E
MAK 110E	Statics	3.0	3	0	0	5	TM	Z	2	E
MAK104E	Computer Aided Technical Drawing	3.0	2	2	0	5	TM	Z	2	E
TDB 102	Türk Dili II	2.0	2	0	0	2	ITB	Z	2	T
	2nd Semester Elective English Course	3.0	3	0	0	4	ITB	S	2	E
Dönem 2:		25.0	21	4	4	35				
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
MAK 201E	Thermodynamics I	3.0	3	0	0	6	TM	Z	3	E
MAK 203E	Strength of Materials I	3.0	2	2	0	6	TM	Z	3	E
MAT 202E	Differential Equations	4.0	4	0	0	5	TB	Z	3	E
MAK 205E	Dynamics	4.0	4	0	0	5	TM	Z	3	E
MAK 209E	Material Science I	3.0	3	0	0	4	TM	Z	3	E
ATA 101	Atatürk İlkeleri ve İnkılap Tarihi I	2.0	2	0	0	2	ITB	Z	3	T
	3rd Semester Elective (ITB) - SGS	2.0	2	0	0	2	ITB	S	3	E

		Dönem 3:	21.0	20	2	0	30			
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
ELK 102E	Fund. of Electrical Electronics Eng.	3.0	3	0	0	5	TM	Z	4	E
MAK 202E	Thermodynamics II	3.0	3	0	0	6	TM	Z	4	E
MAK 204E	Strength of Materials II	3.0	2	2	0	6	TM	Z	4	E
MAK 206E	Fluid Mechanics I	3.0	3	0	0	5	TM	Z	4	E
MAK 210E	Material Science II	3.0	3	0	0	4	TM	Z	4	E
MAT 201E	Numerical Methods	3.0	3	0	0	4	TB	Z	4	E
ATA 102	Atatürk İlkeleri ve İnkılap Tarihi II	2.0	2	0	0	2	ITB	Z	4	T
	4th Semester Elective (ITB) - SGS	2.0	2	0	0	2	ITB	S	4	E
	4th Semester Elective Course (ITB)	3.0	3	0	0	4	ITB	S	4	E
		Dönem 4:	25.0	24	2	0	38			
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
MAK 300E	Internship I	0.0	0	0	0	0	MT	Z	5	
MAK 301E	Theory of Machines I	3.0	3	0	0	5	TM	Z	5	E
MAK 303E	Heat Transfer	3.0	3	0	0	6	TM	Z	5	E
MAK 305E	Fluid Mechanics II	3.0	3	0	0	5	MT	Z	5	E
MAK 307E	Machine Elements I	4.0	3	2	0	6	MT	Z	5	E
MAK 309E	Engineering Biology	3.0	2	2	0	4	TB	Z	5	E
	5th Semester Elective Course (ITB)	3.0	3	0	0	4	ITB	S	5	E
		Dönem 5:	19.0	17	4	0	30			
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
MAK 302E	Theory of Machines II	3.0	3	0	0	5	MT	Z	6	E
MAK 304E	Manufacturing Processes	3.5	3	1	0	5	MT	Z	6	E
MAK 306E	System Dynamics and Control	3.5	3	1	0	5	MT	Z	6	E
MAK 308E	Machine Elements II	4.0	3	2	0	6	MT	Z	6	E
	Design Elective (MT)	3.0	1	0	4	6	MT	S	6	E
	6th Semester Elective Course (ITB)	3.0	3	0	0	4	ITB	S	6	E
		Dönem 6:	20.0	16	4	4	31			
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
MAK 400E	Internship II	0.0	0	0	0	0	MT	Z	7	E
END 401E	Occupational Health and Safety I	2.0	2	0	0	2	TB	Z	7	E
MAK 401E	Mechanical Engineering Lab.	2.0	1	0	2	5	MT	Z	7	E
MAK 403E	Applied Machine Design	3.0	1	4	0	3	MT	Z	7	E

ETK 101E	Engineering Ethics	1.0	1	0	0	2	TB	Z	7	E
	7th Semester Technical Elective	3.0	3	0	0	5	MT	S	7	E
	7th Semester Technical Elective	3.0	3	0	0	5	MT	S	7	E
	7th Semester Elective Course (ITB)	3.0	3	0	0	4	ITB	S	7	E
	7th Semester Elective Course (ITB)	3.0	3	0	0	4	ITB	S	7	E
	Dönem 7:	20.0	17	4	2	30				
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
MAK 402E	Senior Design Project	3.0	0	6	0	8	MT	Z	8	E
END 402E	Occupational Health and Safety II	1.0	1	0	0	1	TB	Z	8	E
END 305E	Engineering Economics	3.0	3	0	0	5	TB	Z	8	E
	8th Semester Technical Elective	3.0	3	0	0	5	MT	S	8	E
	8th Semester Technical Elective	3.0	3	0	0	5	MT	S	8	E
	8th Semester Technical Elective	3.0	3	0	0	5	MT	S	8	E
	8th Semester Elective Course (ITB)	3.0	3	0	0	4	ITB	S	8	E
	Dönem 8:	19.0	16	6	0	33				
TOPLAM:		172.5	150.0	31.0	14.0	257.0				

Temel Bilim (TB)	40.0	23.2
Temel Mühendislik (TM)	49.5	28.7
Mühendislik Tasarım (MT)	47.0	27.2
İnsan & Toplum Bilim (ITB)	36.0	20.9
Toplam Kredi	172.5	100.0
Zorunlu Ders Kredisi	129.5	75.1
Seçmeli Ders Kredisi	43.0	24.9
Toplam Kredi	172.5	100.0

Bologna Kriterleri		
Toplam AKTS	257.0	100.0
Seçmeli	63.0	24.5

SEÇMELİ DERSLER:

2nd Semester Elective English Courses (ITB)										
Dersin Kodu	Dersin Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
YDE 229	Effective Communication Skills	3.0	3	0	0	4.0	ITB	S	2	E
YDE 123	Listening and Speaking	3.0	3	0	0	4.0	ITB	S	2	E
YDE 113	Pronunciation Skills	3.0	3	0	0	4.0	ITB	S	2	E
YDE 227	Language Acquisition	3.0	3	0	0	4.0	ITB	S	2	E

3rd and 4th Semester Elective Courses (ITB)(SGS)

Dersin Kodu	Dersin Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
SGS 101E	History of Art	2.0	2	0	0	2.0	ITB	S	3	E
SGS 103E	History and Philosophy of Science	2.0	2	0	0	2.0	ITB	S	3	E
SGS 105E	Disaster Awareness	2.0	2	0	0	2.0	ITB	S	3	E
SGS 107E	Eloquent Speech	2.0	2	0	0	2.0	ITB	S	3	E
SGS 109E	Basic First Aid and EMAKEmergency	2.0	2	0	0	2.0	ITB	S	3	E
SGS 111E	Archery	2.0	2	0	0	2.0	ITB	S	3	E
SGS 113E	Boxing, Karate and Taekwondo	2.0	2	0	0	2.0	ITB	S	3	E
SGS 115E	Football	2.0	2	0	0	2.0	ITB	S	3	E
SGS 117E	Volleyball	2.0	2	0	0	2.0	ITB	S	3	E
SGS 119E	Basketball	2.0	2	0	0	2.0	ITB	S	3	E
SGS 121E	Tennis	2.0	2	0	0	2.0	ITB	S	3	E
SGS 123E	Table Tennis	2.0	2	0	0	2.0	ITB	S	3	E
SGS 125E	Folk Dances	2.0	2	0	0	2.0	ITB	S	3	E
SGS 127E	Music Culture	2.0	2	0	0	2.0	ITB	S	3	E
SGS 129E	Arts&Painting	2.0	2	0	0	2.0	ITB	S	3	E
SGS 131E	Theatre and Cinema	2.0	2	0	0	2.0	ITB	S	3	E
SGS 133E	Healthy Living	2.0	2	0	0	2.0	ITB	S	3	E
SGS 135E	Nutrition	2.0	2	0	0	2.0	ITB	S	3	E
SGS 137E	Media Literacy	2.0	2	0	0	2.0	ITB	S	3	E
SGS 139E	Mathematical Esthetics	2.0	2	0	0	2.0	ITB	S	3	E
SGS 141E	Industrial Design	2.0	2	0	0	2.0	ITB	S	3	E
SGS 143E	Basic Photography	2.0	2	0	0	2.0	ITB	S	3	E

SGS 145E	Surfing	2.0	2	0	0	2.0	ITB	S	3	E
SGS 167E	Japonca I	2.0	2	0	0	2.0	ITB	S	3	E
SGS 169E	Japonca II	2.0	2	0	0	2.0	ITB	S	3	E

6th Semester Design Elective courses

Dersin Kodu	Dersin Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
MAK 310E	Applied Thermodynamics	3.0	1	0	4	6.0	MT	S	6	E
MAK 312E	Applied Heat Transfer	3.0	1	0	4	6.0	MT	S	6	E
MAK 314E	Robotic Design	3.0	1	0	4	6.0	MT	S	6	E
MAK 316E	Mechanics of Fiber-Reinforced Comp.	3.0	1	0	4	6.0	MT	S	6	E
MAK 318E	Computer Aided Design	3.0	1	0	4	6.0	MT	S	6	E
MAK 320E	Computer Aided Structural Analysis	3.0	1	0	4	6.0	MT	S	6	E
MAK 322E	Introduction to Automotive Engineering	3.0	1	0	4	6.0	MT	S	6	E

Other Semesters Elective Courses

(ITB)

Dersin Kodu	Dersin Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
ISL 426E	Sociology	3.0	3	0	0	5.0	ITB	S	4/5/6/7/8	E
END 106E	Economics	3.0	3	0	0	5.0	ITB	S	4/5/6/7/8	E
END 425E	Entrepreneurship	3.0	3	0	0	4.0	ITB	S	4/5/6/7/8	E
END 412E	Innovation Management	3.0	3	0	0	5.0	ITB	S	4/5/6/7/8	E
BIL 401E	Technology and Ethics	3.0	3	0	0	4.0	ITB	S	4/5/6/7/8	E
IKY 415E	Social Pshychology	3.0	3	0	0	5.0	ITB	S	4/5/6/7/8	E
ISM 406E	Organizational Behaviour	3.0	3	0	0	4.0	ITB	S	4/5/6/7/8	E
ISM 402E	Labour Law	3.0	3	0	0	4.0	ITB	S	4/5/6/7/8	E
END 308E	Project Management	3.0	3	0	0	0.0	ITB	S	4/5/6/7/8	E

7th and 8th Technical Elective Courses

(MT)

Dersin Kodu	Dersin Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
MAK 404E	Finite Element Analysis	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 405E	Composite Structures	3.0	3	0	0	5.0	MT	S	7/8	E

MAK 406E	Robotics	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 407E	Industrial Fluid Power	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 408E	Mechanical Vibrations	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 409E	HVAC Systems & Equipment Design	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 410E	Hydraulic and Pneumatic Circuits	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 411E	Computer Integrated Manufacturing	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 412E	Maintenance Engineering	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 413E	In.to Biomechanics and Biomedical Eng.	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 414E	Manufacturing Engineering	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 415E	Quality Control in Manufacturing	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 416E	Industrial Acoustics and Noise	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 417E	Advanced Fluid Mechanics	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 418E	Microfluidics	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 419E	Gas Turbines	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 420E	Renewable Energy Systems	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 421E	Energy Efficiency	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 422E	Control System Design	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 423E	Vehicle Technology	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 424E	Internal Combustion Engines	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 425E	Dynamic Systems Modelling and Sim.	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 426E	Material Selection in Design	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 427E	Advanced Strength of Materials	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 428E	Advanced Manufacturing Process	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 429E	Computer Aided Structural Analysis	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 430E	Introduction to Fracture Mechanics	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 431E	Experimental Stress Analysis	3.0	3	0	0	5.0	MT	S	7/8	E
MAK 432E	Computer Aided Mathematics	3.0	3	0	0	5.0	MT	S	7/8	E

Makine Mühendisliği Müfredatı Ön Şart Dersleri Tablosu

2018 Müfredatı		Ön Şart Dersi	
Ders Kodu	Ders Adı	Ders Kodu	Ders Adı
2018 Müfredatı		Ön Şart Dersi	
Ders Kodu	Ders Adı	Ders Kodu	Ders Adı
MAK 203E	Strength of Materials I	MAK 110E	Statics
MAK 202E	Thermodynamics II	MAK 201E	Thermodynamics I
MAK 204E	Strength of Materials II	MAK 203E	Strength of Materials I
MAK 210E	Material Science-II	MAK 209E	Material Science-I
MAK301 E	Theory of Machines I	MAK 205E	Dynamics
MAK307E	Machine Elements I	MAK 203E	Strength of Materials I
MAK302 E	Theory of Machines II	MAK 301E	Theory of Machines I
MAK 305E	Fluid Mechanics II	MAK 206E	Fluid Mechanics I
MAK 308E	Machine Elements II	MAK 307E	Machine Elements I
MAK 402E	Senior Design Project		7. yarıyıldan en az 2 dersten başarılı olmuş olmak
MAK310E	Applied Thermodynamics	MAK 303E	Thermodynamics II
MAK312 E	Applied Heat Transfer	MAK 202E	Heat Transfer
MAK 314 E	Robotic Design	MAK 301E	Theory of Machines I
MAT 201E	Numerical Methods	MAT 102E	Mathematics II
MAK 201E	Thermodynamics I	FIZ 101E	Physics I
MAT 102E	Mathematics II	MAT 101E	Mathematics I
MAT 202E	Differential Equations	MAT 102E	Mathematics II