

FACULTY OF AVIATION AND SPACE SCIENCES
DEPARTMENT OF AERONAUTICAL ENGINEERING

Start Date of the Program 23.06.2023

1 st Semester										2 nd Semester									
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	Preq		CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	Preq	
MTH101	Calculus I	Analiz I	C	4	0	4	6			MTH102	Calculus II	Analiz II	C	4	0	4	6	MTH101	
AER101	Introduction to Aeronautical Engineering	Uçak Mühendisliğine Giriş	C	2	0	2	3			CMP101	Programming Application for Engineers	Mühendisler için Programlama Uygulaması	C	1	2	3	5		
ENG101	English I	İngilizce I	C	3	0	3	4			ENG102	English II	İngilizce II	C	3	0	3	4	ENG101	
PHY101	Physics I	Fizik I	C	3	2	4	6			PHY102	Physics II	Fizik II	C	3	2	4	6	PHY101	
CHE105	General Chemistry	Genel Kimya	C	3	2	4	6			MTH112	Linear Algebra	Lineer Cebir	C	3	0	3	4		
MEC101	Technical Drawing I	Teknik Çizim I	C	2	2	3	5			TUR102**	Turkish II: Oral Expression	Türkçe II: Sözlü Anlatım	C	2	0	2	2	TUR101	
TUR101*	Turkish I: Written Expression	Türkçe I: Yazılı Anlatım	C	2	0	2	2			YIT104**	Turkish for International Students II	Uluslararası Öğrenciler için Türkçe II	C	2	0	2	2	YIT101	
YIT103**	Turkish for International Students I	Uluslararası Öğrenciler için Türkçe I	C	2	0	2	2			AER104	Fundamentals of Engineering and Ethics	Mühendisliğin Temelleri ve Etik	C	2	0	2	3		
Total				7	19	6	22	34		Total				7	19	4	21	32	
										Year 1- Summer School									
										CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	Preq	
										AER120	Internship I	Staj I	C	0	0	0	0		
3 rd Semester										4 th Semester									
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	Preq		CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	Preq	
MTH201	Differential Equations	Diferansiyel Denklemler	C	4	0	4	6	MTH102	AER306	Fluid Mechanics	Akışkanlar mekaniği	E	3	0	3	4	MTH201,MEC207		
MEC205	Material Science	Malzeme Bilimi	C	3	0	3	4	CHE105	AER208	Manufacturing Processes	İmal İşlemleri	C	3	0	3	4	MEC205		
MEC203	Statics	Statik	C	3	0	3	5	PHY101	MEC204	Dynamics	Dinamik	C	3	0	3	5	MEC203		
MEC207	Thermodynamics I	Termodinamik I	C	3	0	3	5	PHY101	MEC208	Thermodynamics II	Termodinamik II	C	3	0	3	4	MEC207		
GE****	General Elective	Genel Seçmeli	E	3	0	3	4		AER214	Mechanics of Materials	Malzemelerin Mekaniği	C	3	0	3	5	MEC203		
AER213	Engineering Experimentation	Mühendislik Deneyi	C	2	2	3	5		AER204	Electrics and Electronics	Elektrik ve Elektronik	C	3	2	4	6	PHY102		
Total				6	18	2	19	29		Total				6	18	2	19	28	
										Year 2- Summer School									
										CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	Preq	
										AER220	Internship II	Staj II	C	0	0	0	0	AER120	
5 th Semester										6 th Semester									
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E			CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	Preq	
MTH301	Numerical Analysis for Engineers	Mühendisler için Sayısal Analiz	C	3	0	3	4	MTH201	MTH312	Probability and Statistics	Olasılık ve İstatistik	C	3	0	3	5	MTH102		
AER333	Aerospace Structures	Hava-Uzay Yapıları	C	3	0	3	4	AER214	AER311	Gas Dynamics	Gaz Dinamiği	C	3	0	3	4	AER334/MEC208		
TE***	Technical Elective	Teknik Seçmeli	E	3	0	3	4		AER324	Flight Mechanics	Uçuş Mekaniği	C	3	0	3	4	AER334		
GE	General Elective	Genel Seçmeli	C	3	0	3	4		AER302	Control Systems	Kontrol Sistemleri	C	3	0	3	5			
EEE341	Signal and System Analysis	Sinyal ve Sistem Analizi	C	3	0	3	4	AER204	TE	Technical Elective	Teknik Seçmeli	E	3	0	3	4			
AER334	Aerodynamics I	Aerodinamik I	C	3	2	4	6	AER306	AER301	Heat and Mass Transfer	Isı Transferi	C	3	0	3	5			
AIT101*	Atatürk's Principles and the History of Turkish Revolution I	Atatürk İlkeleri ve İnkılap Tarihi I	C	2	0	2	2		AIT102*	Atatürk's Principles and the History of Turkish Revolution II	Atatürk İlkeleri ve İnkılap Tarihi II	C	2	0	2	2	AIT101		
AIT103**	History for International Students I	Uluslararası Öğrenciler için Tarih I	C	2	0	2	2		AIT104**	History for International Students II	Uluslararası Öğrenciler için Tarih II	C	2	0	2	2	AIT103		
Total				8	21	2	21	30		Total				7	20	0	20	31	
										7 th Semester									
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	Preq		8 th Semester									
AER422	Flight Stability & Control	Uçuş Kararlılığı ve Kontrolü	C	3	0	3	4	AER324	AER452	Aircraft Design	Uçak Tasarımı	C	3	2	4	6	AER324,AER334		
AER438	Modeling and Simulation	Modelleme ve Simülasyon	C	3	0	3	4		AER434	Aerospace Propulsion	Hava-Uzay İtici Sistemleri	C	3	0	3	4	AER311		
TE	Technical Elective	Teknik Seçmeli Ders	E	3	0	3	4		TE	Technical Elective	Teknik Seçmeli Ders	E	3	0	3	5			
TE	Technical Elective	Teknik Seçmeli Ders	E	3	0	3	4		TE	Technical Elective	Teknik Seçmeli Ders	E	3	0	3	5			
TE	Technical Elective	Teknik Seçmeli Ders	E	3	0	3	5		TE	Technical Elective	Teknik Seçmeli Ders	E	3	0	3	5			
GE	General Elective	Genel Seçmeli	E	3	0	3	5		AER400	Graduation Design Project	Mezuniyet Tasarım Projesi	C	0	4	2	7			
Total				6	18	0	18	26		Total				6	15	6	18	32	
Total No. of Courses				52								Percentage of Electives				19			
Total No. of Electives				10								Total ECTS				240			
Total No. of Credits				158															

Key:

C/E: Compulsory/Elective (Please indicate)	T: Hours of Theoretical Study	P: Hours of Practice/Lab	C: Credits	E: ECTS
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