

**FACULTY OF AVIATION AND SPACE SCIENCES
DEPARTMENT OF AERONAUTICAL ENGINEERING**

1 st Semester								2 nd Semester							
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E
AER101	Introduction to Aeronautical Engineering	Uçak Mühendisliğine Giriş	C	2	0	2	3	MTH112	Linear Algebra	Lineer Cebir	C	3	0	3	4
CHE105	General Chemistry	Genel Kimya	C	3	2	4	6	AER102	Creativity and Innovation in Engineering	Mühendislik Tasarımında Yaratıcılık	C	2	0	2	3
MEC101	Technical Drawing I	Teknik Resim I	C	2	2	3	5	PHY102	Physics II	Fizik II	C	3	2	4	6
PHY101	Physics I	Fizik I	C	3	2	4	6	MTH102	Calculus II	Sayısal Analiz II	C	4	0	4	6
MTH101	Calculus I	Sayısal Analiz I	C	4	0	4	5	ENG102	Foreign Language II	Yabancı Dil II	C	3	0	3	4
ENG101	Foreign Language I	Yabancı Dil I	C	3	0	3	4	CMP101	Programming Application for Engineers	Mühendisler için Programlama	C	2	2	3	5
TUR151*	Turkish I: Written Expression	Türkçe I	C	2	0	0	2	TUR152*	Turkish II: Oral Expression	Türkçe II	C	2	0	0	2
YIT151**	Turkish for International Students I	Türkçe I	C	2	0	0	2	YIT152**	Turkish for International Students II	Türkçe II	C	2	0	0	2
Total				21	6	20	33	Total				21	4	19	32
3 rd Semester								4 th Semester							
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E
MEC203	Statics	Statik	C	3	0	3	5	MEC204	Dynamics	Dinamik	C	3	0	3	5
MTH201	Differential Equations	Diferansiyel Denklemler	C	4	0	4	6	AER214	Mechanics of Materials	Malzemelerin Mekanikliği	C	3	2	4	6
MEC209	CAD and 3-D Printing	CAD ve 3Boyutlu Yazdırma	C	3	0	3	5	AER208	Processes in Manufacturing	İmal Usulleri	C	3	0	3	4
MEC205	Material Science	Malzeme Bilimi	C	3	0	3	4	AER204	Electrics and Electronics	Elektrik ve elektronik	C	3	2	4	6
MEC207	Thermodynamics I	Termodinamik I	C	3	0	3	5	MEC208	Thermodynamics II	Termodinamik II	C	3	0	3	4
ENG201	Academic Reading and Writing Skills	Akademik Okuma Yazma	E	3	0	3	4	AER213	Engineering Experimentation	Mühendislik Deneylemesi	E	3	0	3	4
AER120	Summer Internship I	Yaz Stajı I	C	0	0	0	0								
AER200	Undergraduate Seminar I	Lisans Semineri I	C	1	0	0	1								
Total				20	0	19	30	Total				18	4	20	29
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
AER306	Fluid Mechanics I	Akışkanlar Mekanikliği I	C	3	0	3	4	AER334	Aerodynamics	Aerodinamik	C	3	2	4	6
AER333	Aerospace Structures	Hava uzay Yapıları	C	3	0	3	4	AER324	Flight Mechanics	Uçuş Mekanikliği	C	3	0	3	4
AER315	Mechanical Vibrations	Mekanik Titreşimler	C	3	0	3	4	AER302	Control Systems	Kontrol Sistemleri	C	3	0	3	4
EEE341	Signal and System Analysis	Sinyal ve Sistem Analizi	C	3	2	4	6	AER206	Dynamics of Systems	Sistemlerin Dinamiği	C	3	0	3	4
MTH301	Numerical Analysis for Engineers	Mühendisler için Sayısal Analiz	C	3	0	3	5	AER304	Heat and Mass Transfer	Isı ve Kütle Transferi	C	3	0	3	4
AIT151*	Principles of Atatürk and the History of Turkish Revolution I	Atatürk İlkeleri ve İnkılap Tarihi I	C	2	0	0	2	MTH312	Probability and Statistics	Olasılık ve İstatistik	C	3	0	3	5
AIT153**	History for International Students I	Tarih	C	2	0	0	2	AIT152*	Principles of Atatürk and the History of Turkish Revolution II	Atatürk İlkeleri ve İnkılap Tarihi II	C	2	0	0	2
AER412	Aircraft Maintenance	Uçak Bakımı	E	3	0	3	4	AIT154**	History for International Students II	Tarih	C	2	0	0	2
AER220	Summer Internship II	Yaz Stajı II	C	0	0	0	0								
AER300	Undergraduate Seminar II	Lisans Semineri II	C	1	0	0	1								
Total				23	2	19	32	Total				22	2	19	31
7 th Semester								8 th Semester							
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E	CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E
AER422	Flight Dynamics & Control	Uçuş Dinamiği ve Kontrol	C	4	0	4	6	AER452	Aircraft Design	Uçak Tasarımı	C	3	2	4	7
AER311	Gas Dynamics	Gaz Dinamiği	C	3	0	3	4	AER432	Gas Turbines & Jet Propulsion	Gaz Türbinleri ve Jet İtkileme	C	3	0	3	5
AER457	Quality Control	Kalite Kontrol	E	3	0	3	5	AER425	Aerospace Propulsion	Uzay İtkileme	E	3	0	3	5
MEC315	Turbomachinery	Turbomakineler	E	3	0	3	5	AER468	Optimization in Aerospace Engineering	Uçak Mühendisliğinde Optimizasyon	E	3	0	3	5
AER435	Introduction to Energy Conversion	Enerji Dönüşümüne Giriş	E	3	0	3	5	AER461	Industrial Pneumatics	Endüstriyel Pnömatik	E	3	0	3	5
EAS431	Economics for Engineers		E	3	0	3	5								
AER320	Summer Internship III	Yaz Stajı III	C	0	0	0	0	AER400	Graduation Design Project		C	0	4	2	5
Total				19	0	19	30	Total				15	6	18	32

Total No. of Courses	63
Total No. Of Electives	12
Total No. Of Credits	153

Percentage of Electives	19%
Total ECTS	240

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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