

FACULTY OF AERONAUTICS AND ASTRONAUTICS

Eskisehir Technical University, Faculty of Aeronautics and Astronautics was established in 1986 in order to train personnel having suitable qualifications that Global Civil Aviation Sector. In the Avionics, Airframe and Powerplant Maintenance, Air Transportation Management, Air Traffic Control, and Flight Training Departments one year of optional Intensive English Language training and 4 years of undergraduate education is offered. Students are accepted to the Air Traffic Control and Flight Training Departments by an entrance examination conducted by the university following a preliminary registration. Students may get acceptance to the Avionics, Airframe and Powerplant Maintenance, and Air Transportation Management Departments by taking centralized examinations run on a national scale: Citizens of Turkey and Turkish Republic of Northern Cyprus should take the ÖSS; Citizens of Other Countries should take the YÖS (Foreign Student Examination).

At the Faculty of Aeronautics and Astronautics, there are an international airport, a SHY-145 certified maintenance center, 20 aircrafts, 28 laboratories; and flight, airport control, and radar simulators. Via the maintenance center that it has, the Faculty School has the ability to conduct the overall maintenance of aircrafts lighter than 5700 kg. At the Faculty of Aeronautics and Astronautics with its, effectively run, Airport establishment, Air Traffic Control services, flight and maintenance operations, the students find the opportunity to learn in field the subject matters coinciding with their respective area of application.

With this integrated structure, the Faculty continues its cooperation with the national and international aviation institutions and industry. The service provided in the Aviation Sector has international attributes as a result the personnel employed in this Sector and the educational institutions training these personnel have to be properly certified according to the standards. Since the past, the Faculty of Aeronautics and Astronautics is continuing its operation according to the international and national standards while offering education and conducting aviation operations. The Faculty is one of the few Faculty of Aeronautics and Astronautics worldwide with its human resources, available equipment and facilities; and aforementioned attributes.

Dean	: Prof. Dr. Öznur USANMAZ
Vice-Dean	: Prof. Dr. Enis Turhan TURGUT
Vice-Dean	: Asst. Prof. Dr. Sinem KAHVECİOĞLU
Secretary to the Faculty	: Recai ÇELİK

STAFF

Professors:

Önder ALTUNTAŞ, Özlem ATALIK, Ender GEREDİ, T. Hikmet KARAKOÇ, Mehmet Şerif KAVSAOĞLU, Ayşe KÜÇÜK YILMAZ, Hakan OKTAL, Ferhan ŞENGÜR, Önder TURAN, Dilek TURAN, Enis Turhan TURGUT, Öznur USANMAZ, Tolga BAKLACIOĞLU, Cem ÇETEK

Associate Professors:

Savaş S. ATEŞ, Ünal BATTAL, Vildan DURMAZ, Nalan ERGÜN, Emre KIYAK, Özlem ŞAHİN, Suat USLU, Gülay ÜNAL, Ebru YAZGAN, Aziz KABA

Assistant Professors:

Müge ARMATLI KAYRAK, Fulya AYBEK ÇETEK, Emre AYDOĞAN, Kübra Gülnaz BÜLBÜL, Ertan ÇINAR, Hülya ERGÜL, Yasemin IŞIK, Sinem KAHVECİOĞLU, Nevzet KAYA, Hakan KORUL, İlkay ORHAN, Gamze ORHAN, Uğur ÖZDEMİR, Asuman ÖZGER, Metin ÖZGÜR, Ali Emre SARILGAN, Orkun TUNÇKAN, Alper ULUDAĞ, Kadriye YAMAN, A. Akile YILDIRIM, Emircan ÖZDEMİR, Tamer SAVAŞ,

Lecturers:

Fusun ADAR, Hakan AYDEMİR, Tulga Metin CANDAS, Gökhan DURMUŞ, Gülcan GÜNAY, M. Selçuk İRDE, Ramazan KALE, Hasan LİK, Osman ODABAŞI, Erkan ORMAN, Okan SALDOĞAN, Sema SAB, Hasan TİFTİK, Nilgün YILDIRIM, Ali Ozan CANARSLANLAR,

Research Assistants:

Hakkı AKSOY, Murat AYAR, Emre AYDIN, Demet CANPOLAT TOSUN, Eşref ÇAKIR, Hurşit DEĞİRMENCİ, Ahmet ERMEYDAN, Onur GÜNEY, Cemal IŞILAK, Ferhat İNCE, Barış KARABAYRAK, Mustafa ÖZDEMİR, Nedim SUNAY, Burak TARHAN, Ümran ÜNDER, Muhammet YILANLI, Ece YURDUSEVİMLİ METİN, Enes ÖZÇELİK, Nurşah ÖZ, Hilal Tuğçe LAPÇİN, Merve KINACI, Fatih Kutay AKPINAR, Ali Armağan DİLER

DEPARTMENT OF AIR TRAFFIC CONTROL

In this department, air traffic controllers are trained according to the International Civil Aviation Organization and EUROCONTROL standards in order to ensure safe, effective and orderly air traffic flow. In our country, it is the first and only department offering undergraduate education in the field of air traffic control. Besides the theoretical courses, the students are trained at air traffic control radar simulator, airport control simulator, and flight procedures design laboratory for applications.

Furthermore, the air traffic control services conducted at Eskişehir Technical University's Hasan Polatkan Airport offers education in real air traffic environment to the students.

Every academic year, fifteen students are accepted to the Air Traffic Control Department by preliminary registration followed by a special aptitude test. In the department, one year of optional Intensive English Language education is followed by four years of undergraduate education. There is 30 workdays internship requirement for the students at the air traffic control units. The graduates work at the Air Traffic Control Units of the General Directorate of State Airports.

Department Head : Assoc. Prof.Dr. Cem ÇETEK
 Deputy Department Head : Assoc. Prof.Dr. Özlem ŞAHİN
 Deputy Department Head : Dr. Lecturer Ali Ozan CANARSLANLAR

PROGRAM

I.Semester				II.Semester			
HTK101	Aircraft Basic Knowledge	4+0	4,0	HTK 104	Aerodrome Control Procedures	5+0	6,0
HTK103	Air Traffic Services	4+0	5,5	HTK 105	Introduction to Air Traffic Control	2+0	3,0
HTK205	Communication and Navigation Systems	3+0	4,0	HTK 108	Basic Principles of Helicopter	2+0	2,5
İNG117	(Eng) English Speaking Skills I	6+0	4,0	HTK 215	Aerodromes	3+0	4,5
MAT119	Mathematics I	3+1	5,0	İNG 118	(Eng) English Speaking Skills II	6+0	4,0
SHU102	Meteorology	3+0	5,5	MAT 120	Mathematics II	3+1	4,0
	Elective Course		2,0	MEK 110	Mechanics for Air Traffic Control	3+0	3,0
					Elective Course		3,0
			30,0				30,0
III.Semester				IV.Semester			
ARY 205	Research Methods and Presentation Techniques	3+0	3,0	HTK 234	Navigation	3+0	3,5
HTK 227	(Eng) Aerodrome Control Simulation I	2+2	5,0	HTK 224	Flight Mechanics and Aircraft Performance	3+0	3,0
HTK222	Aeronautical Information Management	4+0	4,5	BİM301	Algorithm and Programming	2+2	4,5
İNG 219	(Eng) English Speaking Skills III	4+0	2,0	HTK 220	Non-Radar Control Procedures	5+0	6,0
İST 409	Mathematical and Statistical Methods in Decision Making	4+0	4,0	HTK 228	(Eng) Aerodrome Control Simulation II	2+4	6,0
MAT 108	Linear Algebra and Analytic Geometry	2+0	3,0	HTK 232	Air Traffic Communication	3+0	3,0
PLT 225	Aerodynamics	3+0	3,5	İNG 220	(Eng) English Speaking Skills IV	4+0	2,0
TAR 165	Atatürk's Principles and History of Turkish Revolution I	2+0	2,0	TAR 166	Atatürk's Principles and History of Turkish Revolution II	2+0	2,0
	Elective Course		3,0				
			30,0				30,0
V.Semester				VI.Semester			
HTK 316	Radar Control Procedures	5+0	6,0	HEE 403	Aircraft Instruments	3+1	4,5
HTK 317	Instrument Flight Procedures	4+2	8,0	HTK 320	Human Factors in Air Traffic Control	3+0	4,0
HTK 323	Trajectory Analysis and Prediction	3+0	4,5	HTK 324	Surveillance Systems	3+0	3,0
HTK 325	(Eng) Non-Radar Control Simulation (Radarsız Kontrol Simülasyonu)	7+1	6,5	HTK 326	(Eng) Radar Approach Control	7+1	14,0

						Simulation		
HYO 105		Havayolu Tařımacılıęı Yönetimi	3+0	3,0	HUK 418	Air Law	2+0	2,5
İNG 321	(Eng)	English Speaking Skills V (İngilizce Konuşma Becerileri V)	4+0	2,0	İNG 322	(Eng) English Speaking Skills VI	4+0	2,0
								30,0
								30,0
		VII.Semester				VIII.Semester		
HTK 409		Civil-Military Air Traffic Coordination	2+0	3,0	HTK 106	Unmanned Aerial Vehicles	2+0	2,5
HTK 418		Airspace Organization	2+0	3,0	HTK 428	Trends, Perspectives and Visions in Air Traffic Management	2+0	3,0
HTK 423		Air Traffic Flow Management	3+0	2,5	HTK 434	Air Traffic Management	3+0	2,5
HTK 425	(Eng)	Radar Area Control Simulation	7+1	12,5	HTK 436	(Eng) Radar Coordination Simulation	7+1	8,5
HTK 426		Safety Management in Air Traffic System	2+0	2,5	HTK 438	Air Traffic Practices II	0+4	2,5
HTK 433		Air Traffic Practices I	0+4	2,5	HTKSJ 402	Internship	0+2	5,0
İNG 423	(Eng)	English Speaking Skills VII	4+0	2,0	İNG 424	(Eng) English Speaking Skills VIII	4+0	2,0
TÜR 125		Turkish Language I	2+0	2,0	TÜR 126	Turkish Language II	2+0	2,0
						Elective Course		2,0
								30,0

ELECTIVE COURSES

BEÖ 155		Physical Education	2+0	2,0	ESTÜ 130	Turkish as a Foreign Language II	2+0	2,0
ESTÜ 101		Introduction to University Life	0+1	2,0	ESTÜ 131	Argentine Tango Dance	0+2	2,0
ESTÜ 104		Academic and Life Skills	2+1	3,0	ESTÜ 132	History of Political Thought	3+0	3,0
ESTÜ 106		Project Management	2+1	3,0	ESTÜ 133	Disability and Awareness	3+0	3,0
ESTÜ 111		Volunteering Works	1+2	4,0	ESTÜ 201	Turkish Sign Language	3+0	3,0
ESTÜ 112		Cyber Security for Everyone	2+0	2,0	ESTÜ 203	Introduction to Sociology	3+0	3,0
ESTÜ 113		Design Thinking	3+0	3,0	ESTÜ 301	Science Communication	2+0	3,0
ESTÜ 114		Visual Thinking	3+0	3,0	ESTÜ 307	Children Rights and Family Education	2+0	2,0
ESTÜ 115		Photographic Viewpoint	2+1	3,0	ESTÜ 401	Coaching and Leadership	1+1	2,0
ESTÜ 116		Computer Aided Design I	3+0	3,0	ESTÜ 402	Basic Computer Utilization	3+0	3,0
ESTÜ 117		Computer Aided Design II	3+0	3,0	ESTÜ 403	Turkish Sign Language	3+0	4,0
ESTÜ 118		Visual Thinking with Concepts	3+0	3,0	MÜZ 155	Turkish Folk Music	2+0	2,0
ESTÜ 119		Flute	3+1	3,0	MÜZ 157	Traditional Turkish Art Music	2+0	2,0
ESTÜ 120		Solfege	3+1	3,0	SAĞ 102	First Aid	2+0	2,5
ESTÜ 121		Piano	3+1	3,0	SAN 155	Hall Dances	0+2	2,0
ESTÜ 122		Guitar	3+1	3,0	SNT 155	History of Art	2+0	2,0

ESTÜ 123	Gender Equality in Work Life	2+0	3,0	SOS 155	Folkdance	2+0	2,0
ESTÜ 125	Philosophy of Science	3+0	3,0	SOS 312	Organizational Behavior	3+0	4,5
ESTÜ 127	Diction	1+2	3,0	THU 203	Community Services	0+2	3,0
ESTÜ 129	Turkish as a Foreign Language I	2+0	2,0				

DEPARTMENT OF AVIONICS

In this department, highly qualified maintenance approval personnel are educated, according to the international standards, for aviation sector. In the Department of Avionics, education is offered according to European Union Standards, EASA Part-Aircraft Maintenance Personnel Regulations, and EASA Part-147 Aircraft Maintenance Educational Institutions Regulations. The Faculty has the SHY Part-147 Aircraft Maintenance Education Institution Authorization Certificate from the General Directorate of Civil Aviation of the Ministry of Transportation. Besides the theoretical courses, students get education tailored to the application in the Avionics, High Frequency, Automatic Control, DME, VOR, ILS, Computer, Basic Electricity and Electronics, Electrotechnics, Communication Systems laboratories and SHY-145 certified maintenance facilities.

Sixty students are accepted to the Department of Avionics by centralized nationwide placement examinations. In the department, one year of optional Intensive English Language education is followed by four years of undergraduate education. 40 workdays of internship is required.

The graduates work at Turkish Airlines, Turkish Air Force Air Supply and Maintenance Centers, private airline companies, and at the technical departments of other companies operating in the aviation sector.

Department Head : Assoc. Prof. Dr. Emre KIYAK
Deputy Department Head :
Deputy Department Head :

PROGRAM

I.Semester				II.Semester			
FİZ 105	Physics I	4+0	6,0	FİZ 231	Waves and Optics	4+0	5,0
FİZ 107	Physics Laboratory I	0+2	1,5	HYO 116	Aviation Legislation	3+0	4,0
HEE 105	Theory of Flight	3+0	3,5	HYO 122	Aircraft Materials I	2+1	3,0
HYO 115	Introduction to Civil Aviation	2+0	3,0	MAT 802	Mathematics II	4+0	4,0
MAT 801	Mathematics I	4+0	4,0	MEK 112	Mechanics	3+0	3,0
MAT 803	Linear Algebra	3+0	3,0	TAR 166	Atatürk's Principles and History of Turkish Revolution II	2+0	2,0
TAR 165	Atatürk's Principles and History of Turkish Revolution I	2+0	2,0		Foreign Language Course		3,0
	Foreign Language Course		3,0		Elective Courses		6,0
	Elective Courses		4,0				
			30,0				30,0

III.Semester

HEE 213	Aircraft Structures and	3+1	3,0
HEE 215	Systems I	2+0	2,0
HYO 221	Aircraft Materials II	3+0	3,0
HYO 223	Electrical Fundamentals I	0+2	1,5
HYO 225		3+0	4,0
İNG 209	(Eng) Electrical Fundamentals	3+0	3,0

IV.Semester

HEE 214	Aircraft Structures and	2+0	2,0
HEE 222	Systems II	0+2	2,0
HEE 226	Non-destructive Inspection	0+2	2,0
HEE 230	Electronic Fundamentals	0+2	1,5
HEE 234	Laboratory I	2+0	3,0
HEE 236	Communication Systems	2+0	3,0

MAT 208	Laboratory I	3+0	3,5	HYO 222	Laboratory I	3+0	3,0
TER 203	Aircraft Maintenance	4+0	4,0	HYO 224	Electronic Fundamentals I	0+2	1,5
TRS 131	Terminology I	4+0	4,0	HYO 226		3+0	4,0
TÜR 125	English Language Skills III	2+0	2,0	İNG 210 (Eng)	Communication Systems I	3+0	3,0
				MEK 218		3+0	3,0
				TÜR 126	Electrical Fundamentals II	2+0	2,0
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			30,0				30,0

V.Semester

HEE 313	Aircraft Hardware	2+3	4,5
HEE 315	Aircraft Structures and Systems III	2+0	3,0
HEE 325	Maintenance Practices I	2+4	5,0
HEE 327	Electronic Fundamentals II	2+1	3,0
HEE 329	Digital Circuits I	2+1	3,0
HYO 313	Electrical Machinery	3+0	3,0
HYO 315	Electrical Machinery Laboratory	0+2	1,5
HYO 319	Aircraft Aerodynamics	3+1	4,0
İNG 309 (Eng)	English Language Skills V	3+0	3,0
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			30,0

VI.Semester

HEE 318	Electronic Fundamentals III	2+0	2,0
HEE 320	Digital Circuits II	2+1	3,0
HEE 324	Navigation Systems I	3+0	4,0
HEE 326	Aircraft Electricity Workshop	2+4	5,0
HEE 328	Digital Data Transmission	2+0	2,0
HYO 336	Aircraft Electrical Systems	4+0	4,0
HYO 338	Electronic Instrument Systems	3+0	4,0
MEK 318	Flight Mechanics	3+0	3,0
	Area Elective Course		3,0
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			30,0

VII.Semester

HEE 421	Communication Systems II	3+0	3,0
HEE 423	Navigation Systems II	3+0	3,0
HEE 427	Troubleshooting Methodology	2+0	2,0
HEE 431	Gas Turbine Engines	3+0	3,0
HEE 443	Microprocessors	3+1	3,0
HEE 445	Aircraft Instrument Systems I	2+1	3,0
HYO 420	Electromagnetic Environment	2+0	2,5
HYO 421	Automatic Flight Systems	3+0	3,0
	Area Elective Courses		7,5
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			30,0

VIII.Semester

HEE 428	Maintenance Practices II	2+4	3,5
HEE 432	Gas Turbine Engines Workshop	0+3	1,5
HEE 444	Aircraft Instrument Systems II	2+0	2,0
HEE 446	Applications of Avionics	0+3	3,0
HEESJ 402	Internship I	0+2	5,0
HYO 419	Modern Avionic Systems	2+0	2,5
HYO 422	Human Factors	3+0	3,0
HYO 436	Flight Controls	2+0	2,0
	Area Elective Courses		7,5
			<hr/>
			30,0

AREA ELECTIVE COURSES

ESTÜ 305	Sustainable Marketing	3+0	5,0	HYO 406	Helicopter Theory and Systems	3+0	4,5
ESTÜ 403	Basic Computer Utilization	3+0	4,0	HYO 409	Case Studies in Aviation Safety	2+0	3,0
ESTÜ 405	Computer Programming	3+0	5,0	HYO 411	Vibration Analysis in Aircrafts	2+1	3,0

HEE 322		Unmanned Aerial Vehicle Design, Control Systems and Workshop Applications	2+2	4,5	HYO 413	(Eng)	Aircraft Systems Design	2+2	4,5
HEE 419		Maintenance and Repair in Aircraft Electric Systems	2+1	3,0	HYO 415		Academic and Technological Progresses in Aviation	3+0	4,5
HEE 434		Automatic Control	2+2	4,5	HYO 416		Reciprocating Engine Theory, Systems and Maintenance	3+0	3,0
HEE 440		Maintenance Practices-M13 II	0+3	3,0	HYO 425		Safety Management System	2+0	3,0
HEE 441		Maintenance Workshop Applications-M13 I	0+5	3,0	HYO 428		Aviation Meteorology	3+0	3,0
HEE 442		Maintenance Workshop Applications-M13 II	0+5	4,5	İNG 145	(Eng)	Business English I	2+0	2,0
HEE 447		Aircraft Structures and Systems Applications-M11	0+3	3,0	İNG 146	(Eng)	Business English II	2+0	2,0
HEE 448	(Eng)	Microwave Theory	3+0	3,0	İNG 310	(Eng)	English Language Skills VI	3+0	3,0
HEE 449		Maintenance Practices-M13 I	0+5	4,5	İŞL 301		Human Resources Management	3+0	4,0
HEE 452	(Eng)	I.L.S./V.O.R./D.M.E.	3+0	3,0	SHU 221		Sustainability in Aviation	3+0	6,0
HEE 454		Vocational Training in Workplace	0+18	18,0	SHU 308		Aviation Ethics	2+0	4,5
HEESJ 404		Internship II	0+2	2,5	SHU 424		Aircraft Maintenance and Reliability Management	3+0	3,0
HYO 105		Air Transportation Management	3+0	3,0	UGB 422		Environmental Impact Assessment in Aviation	3+0	4,5
HYO 114		Ergonomics in Aviation	4+0	5,0	UGB 424		Reciprocating Engines	1+3	4,5
HYO 304		Aircraft Manufacturing Technologies	3+0	4,5	UMB 407		Heat Transfer and Aircraft Engine Applications Environmental Impact Assessment in Aviation	3+0	4,5

ELECTIVE COURSES

BEÖ 155		Physical Education	2+0	2,0	ESTÜ 203		Introduction to Sociology	3+0	3,0
BİL 303		Visual Programming	3+0	3,0	ESTÜ 204		Effective Reading and Writing Skills	3+0	4,0
ESTÜ 101		Introduction to University Life	0+1	2,0	ESTÜ 301		Science Communication	2+0	3,0
ESTÜ 104		Academic and Life Skills	2+1	3,0	ESTÜ 307		Children Rights and Family Education	2+0	2,0
ESTÜ 106		Project Management	2+1	3,0	ESTÜ 401		Introduction to Professional Life	1+1	2,0
ESTÜ 111		Volunteering Works	1+2	4,0	ESTÜ 402		Coaching and Leadership	3+0	3,0
ESTÜ 112		Cyber Security for Everyone	2+0	2,0	FRA 255	(Fra.)	French I	3+0	4,0
ESTÜ 113		Design Thinking	3+0	3,0	FRA 256	(Fra.)	French II	3+0	4,0
ESTÜ 114		Visual Thinking	3+0	3,0	HYO 113		Aviation History	2+0	2,0
ESTÜ 115		Photographic Viewpoint	2+1	3,0	HYO 120		Basics of Rescue and Fire Fighting	2+0	3,0
ESTÜ 116		Computer Aided Design I	3+0	3,0	HYO 334		Sustainable Aviation Technologies	2+0	2,0
ESTÜ 117		Computer Aided Design II	3+0	3,0	İLT 307		Communication	3+0	3,0
ESTÜ 118		Visual Thinking with Concepts	3+0	3,0	İSG 401		Occupational Health and Safety I	2+0	2,0
ESTÜ 119		Flute	3+1	3,0	İSG 402		Occupational Health and Safety II	2+0	2,0
ESTÜ 120		Solfège	3+1	3,0	MÜZ 155		Turkish Folk Music	2+0	2,0
ESTÜ 121		Piano	3+1	3,0	MÜZ 157		Traditional Turkish Art Music	2+0	2,0

ESTÜ 122	Guitar	3+1	3,0	REK 242	Sports Aviation	1+2	3,0
ESTÜ 123	Gender Equality in Work Life	2+0	3,0	RUS 255	(Rus.) Russian I	3+0	4,0
ESTÜ 125	Philosophy of Science	3+0	3,0	RUS 256	(Rus.) Russian II	3+0	4,0
ESTÜ 127	Diction	1+2	3,0	SAĞ 102	First Aid	2+0	2,5
ESTÜ 129	Turkish as a Foreign Language I	2+0	2,0	SAN 155	Hall Dances	0+2	2,0
ESTÜ 130	Turkish as a Foreign Language II	2+0	2,0	SNT 155	History of Art	2+0	2,0
ESTÜ 131	Argentine Tango Dance	0+2	2,0	SOS 155	Folkdance	2+0	2,0
ESTÜ 132	History of Political Thought	3+0	3,0	THU 203	Community Services	0+2	3,0
ESTÜ 133	Disability and Awareness	3+0	3,0	TKY 304	Quality Assurance Systems	2+0	3,0
ESTÜ 201	Turkish Sign Language	3+0	3,0				

FOREIGN LANGUAGE COURSES

İNG 111	(Eng)	English Language Skills I	3+0	3,0	İNG 195	(Eng)	English for General Purposes I	4+0	3,0
İNG 112	(Eng)	English Language Skills II	3+0	3,0	İNG 196	(Eng)	English for General Purposes II	4+0	3,0

DEPARTMENT OF AVIATION ADMINISTRATION

In this department, highly qualified personnel in the field of management demanded by government and private institutions operating in the aviation sector is educated according to international requirements. Professional courses such as Air Transportation Management, Aviation Management, Airport Management, Operational Performance, Aviation Safety and Security; theoretical management courses such as Financial Management, Marketing, Human Resource Management, Logistics; and, IATA certified courses providing certificates such as Ground Handling, Passenger Handling Services, Air Cargo, and Dangerous Goods take part in the curriculum of the Department of Air Transportation Management. Every academic year, 60 students are accepted by centralized nationwide entry examinations. In the department, one year of optional Intensive English Language education is followed by four years of undergraduate education. Optional internship period is 20 workdays. The graduates work at Turkish Airlines, private airline companies, airports, airport ground services, catering and cargo shipping companies and other aviation institutions.

Department Head : Prof. Dr. Ferhan ŞENGÜR
Deputy Department Head : Asst. Prof. Dr. Gamze ORHAN
Deputy Department Head : Asst. Prof. Dr. Emircan ÖZDEMİR

PROGRAM

I.Semester				II.Semester				
HYO 451	General Aviation	3+0	4,5	İNG 128	(Eng)	English II	4+0	4,0
İKT 151	Economics	3+0	3,0	MAT 172		Mathematics II	2+0	3,0
İNG 127	(Eng) English I	4+0	4,0	SHU 103		Flight Theory	2+0	3,5
İŞL 101	Introduction to Business	3+0	4,5	SHU 108		Air Transportation	3+0	4,5
MAT 129	Mathematics I	2+0	4,0	SHU 112		Meteorology I	3+0	6,0
MUH 151	Introduction to Accounting	3+0	4,5	SHU 244		Ground Handling I	4+0	5,0
SHU 101	Introduction to Civil Aviation	2+0	3,5			Area Elective Course		4,0
	Elective Course		2,0					
			<hr/>					<hr/>
			30,0					30,0

III.Semester					IV.Semester				
İNG 229	(Eng)	English III	4+0	3,5	HYO 230		Aviation Security	3+0	5,0
İŞL 102		Management and Organization	3+0	4,0	İNG 230	(Eng)	English IV	4+0	4,0
SHU 213		Flight Operations	3+0	4,5	SHU 236		Flight Performance	2+0	3,0
SHU 217		Airport Operations and Equipment	3+0	4,0	SHU 242		Operation and Performance I	4+0	6,0
SHU 219		Navigation and Navigation of Aids	3+0	4,0	TAR 166		Atatürk's Principles and History of Turkish Revolution II	2+0	2,0
SOS 107		Behavioral Sciences	2+0	3,0	TÜR 126		Turkish Language II	2+0	2,0
TAR 165		Atatürk's Principles and History of Turkish Revolution I	2+0	2,0			Area Elective Courses		8,0
TÜR 125		Turkish Language I	2+0	2,0					
		Area Elective Course		3,0					
				<hr/>					<hr/>
				30,0					30,0

V.Semester					VI.Semester				
FİN 202		Financial Management	3+0	4,5	İNG 308	(Eng)	Aviation English II	4+0	5,0
İNG 307	(Eng)	Aviation English I	4+0	5,0	İŞL 417		Management Information Systems	3+0	4,5
PZL 302		Marketing Management	3+0	4,5	SHU 302		Airline Management	3+0	4,5
SHU 405		Aviation Safety	3+0	4,5	SOS 312		Organizational Behavior	3+0	4,5
		Area Elective Courses		11,5			Area Elective Courses		9,0
				<hr/>			Elective Course		2,5
				30,0					<hr/>
									30,0

VII.Semester					VIII.Semester				
HYO 417		Crew Resource Management	3+0	4,5	HUK 418		Air Law	2+0	2,5
İNG 401	(Eng)	Advanced English I	4+0	3,0	İNG 402	(Eng)	Advanced English II	4+0	3,0
NÜM 305		Quantitative Methods	3+0	4,5	PZL 410		Airline Marketing	2+0	3,0
SHU 403		Finance in Aviation Companies	3+0	4,5	SHU 412		Airline Fleet Planning	2+0	3,0
SHU 404		Airport Management	3+0	4,5	SHU 416		Aircraft Maintenance Management	2+0	3,0
SHU 411		Airport Terminal Management	3+0	4,5			Area Elective Courses		12,5
		Area Elective Course		4,5			Elective Course		3,0
				<hr/>					<hr/>
				30,0					30,0

AREA ELECTIVE COURSES

ESTÜ 208		Scientific Research Methods	2+1	3,0	SHU 240		Passenger Handling Services I	4+0	6,0
ESTÜ 305		Sustainable Marketing	3+0	5,0	SHU 246		Dangerous Goods	4+0	6,0

HUK 153	Fundamentals Concepts of Law	2+0	3,0	SHU 301	Production Management in Service Companies	3+0	6,0
HUK 154	Commercial Law	2+0	3,0	SHU 303	Meteorology II	3+0	6,0
HUK 252	Labor Law	2+0	2,5	SHU 304	Air Traffic Rules and Services	3+0	6,0
HYO 432	Customer Relationship Management in Aviation	3+0	6,0	SHU 305	Business Analytics	2+1	6,0
HYO 434	Aviation Management Practices	0+6	10,0	SHU 308	Aviation Ethics	2+0	4,5
İNG 145	(Eng) Business English I	2+0	2,0	SHU 310	Accounting Practices in Aviation Business	3+0	6,0
İNG 146	(Eng) Business English II	2+0	2,0	SHU 311	Decision Making Techniques for Business	2+1	6,0
İSN 409	Organizational Communication	3+0	4,5	SHU 341	Passenger Handling Services II	4+0	6,0
İŞL 301	Human Resources Management	3+0	4,0	SHU 343	Operation and Performance II	4+0	6,0
İŞL 406	Strategic Management	3+0	4,5	SHU 345	Ground Handling II	4+0	6,0
MUH 302	Analysis of Financial Reports	3+0	4,5	SHU 426	Transportation Policies	2+0	4,5
SHU 205	Management Statistics	3+0	6,0	SHU 428	Logistics Management	2+0	4,5
SHU 221	Sustainability in Aviation	3+0	6,0	SHU 432	Innovation Management	2+0	4,5
SHU 232	Air Cargo	3+0	6,0	SHU 436	Planning and Scheduling of Airline Operations	3+0	6,0
SHU 234	Flight Planning and Monitoring	3+0	6,0	SHUSJ 402	Internship	0+2	5,0

ELECTİVE COURSES

BEÖ 155	Physical Education	2+0	2,0	ESTÜ 133	Disability and Awareness	3+0	3,0
ESTÜ 101	Introduction to University Life	0+1	2,0	ESTÜ 201	Türk İşaret Dili	3+0	3,0
ESTÜ 104	Academic and Life Skills	2+1	3,0	ESTÜ 203	Sosyolojiye Giriş	3+0	3,0
ESTÜ 106	Project Management	2+1	3,0	ESTÜ 301	Bilim İletişimi	2+0	3,0
ESTÜ 111	Volunteering Works	1+2	4,0	ESTÜ 307	Children Rights and Family Education	2+0	2,0
ESTÜ 112	Cyber Security for Everyone	2+0	2,0	ESTÜ 401	Introduction to Professional Life	1+1	2,0
ESTÜ 113	Design Thinking	3+0	3,0	ESTÜ 402	Coaching and Leadership	3+0	3,0
ESTÜ 114	Visual Thinking	3+0	3,0	ESTÜ 403	Basic Computer Utilization	3+0	4,0
ESTÜ 115	Photographic Viewpoint	2+1	3,0	FRA 255 (Fra.)	French I	3+0	4,0
ESTÜ 116	Computer Aided Design I	3+0	3,0	FRA 256 (Fra.)	French II	3+0	4,0
ESTÜ 117	Computer Aided Design II	3+0	3,0	HYO 120	Basics of Rescue and Fire Fighting	2+0	3,0
ESTÜ 118	Visual Thinking with Concepts	3+0	3,0	İSG 401	Occupational Health and Safety I	2+0	2,0
ESTÜ 119	Flute	3+1	3,0	İSG 402	Occupational Health and Safety II	2+0	2,0
ESTÜ 120	Solfege	3+1	3,0	MÜZ 155	Turkish Folk Music	2+0	2,0
ESTÜ 121	Piano	3+1	3,0	MÜZ 157	Traditional Turkish Art Music	2+0	2,0
ESTÜ 122	Guitar	3+1	3,0	REK 242	Sports Aviation	1+2	3,0
ESTÜ 123	Gender Equality in Work Life	2+0	3,0	RUS 255 (Rus.)	Russian I	3+0	4,0
ESTÜ 125	Philosophy of Science	3+0	3,0	RUS 256 (Rus.)	Russian II	3+0	4,0
ESTÜ 127	Diction	1+2	3,0	SAĞ 102	First Aid	2+0	2,5

ESTÜ 129	Turkish as a Foreign Language I	2+0	2,0	SAN 155	Hall Dances	0+2	2,0
ESTÜ 130	Turkish as a Foreign Language II	2+0	2,0	SNT 155	History of Art	2+0	2,0
ESTÜ 131	Argentine Tango Dance	0+2	2,0	SOS 155	Folkdance	2+0	2,0
ESTÜ 132	History of Political Thought	3+0	3,0	THU 203	Community Services	0+2	3,0

DEPARTMENT OF FLIGHT TRAINING

In this department, highly qualified pilots are educated, according to the international standards, for aviation sector. In our country, it is the first and only department offering undergraduate education in the field of flight training. After the training conducted according to the standards of International Civil Aviation Organization, ICAO, European Aviation Standard and national requirements, the students can be graduated as pilots having ATP(A) credit and CPL(A)/IR(A) license. Students starting their education, receive theoretically based ground training in the first 3 semesters (one and a half year). Following that, they receive their flight training in general purpose flight simulators and 8 SOCATA TB 20 TRINIDAD, 5 CESSNA 172SP, 2 BEECH CRAFT C90 GTI a fleet of 15 airplanes consisting of different types. Every academic year, 5 students are accepted to the Flight Training Department by centralized nationwide entry examinations. In the department, one year of optional Intensive English Language education is followed by four years of undergraduate education. Optional internship period is 20 workdays.

The graduates work at Turkish Airlines, Private airline companies, air-taxi companies, and at flight training schools.

Department Head : Asst. Prof. Dr. Uğur ÖZDEMİR
Deputy Department Head : Asst. Prof. Dr. Kübra Gülnaz BÜLBÜL
Deputy Department Head :

PROGRAM

I. Period / I. Phase				I. Period / II. Phase			
FİZ 119	Aeronautical Physics I	3+0	3,0	FİZ 120	Aeronautical Physics II	3+0	3,0
HUK 147	Air Law I (International Agreements and Aerodromes)	2+0	2,5	İNG 130 (Eng)	Aviation English II	6+0	4,0
İNG 125 (Eng)	Aviation English I	6+0	4,0	PLT 114	Aircraft General Knowledge I (Airframe and Systems)	3+0	4,0
MAT 168	Mathematics	4+2	5,5	PLT 118	Meteorology II	2+0	3,0
PLT 113	Principles of Flight	4+0	3,5	PLT 120	Aircraft General Knowledge II (Electrics)	1+0	1,0
PLT 115	Safety Management System I	2+0	1,5	PLT 122	Flight Operations	3+0	3,0
PLT 117	Meteorology I	4+0	4,0	PLT 124	Knowledge, Skills and Attitudes	4+0	5,0
TAR 165	Atatürk's Principles and History of Turkish Revolution I	2+0	2,0	PLT 239	Aircraft General Knowledge III (Aircraft Engines)	2+0	3,0
TÜR 125	Turkish Language I	2+0	2,0	TAR 166	Atatürk's Principles and History of Turkish Revolution II	2+0	2,0
	Elective Course		2,0	TÜR 126	Turkish Language II	2+0	2,0
			30,0				30,0
I. Period / III. Phase				II. Period / I. Phase			
HUK 250	Air Law II (ATC Procedures and Flight Procedures)	2+0	3,0	PLT 240	Avionics I	12+0	1,5
İNG 235 (Eng)	Aviation English III	4+0	4,0	PLT 242	Normal Procedures I	18+0	1,5
PLT 247	General Navigation	5+0	5,0	PLT 244	Emergency Procedures I	18+0	1,5
PLT 251	Human Performance and Limitations	4+0	4,5	PLT 260	Introduction to Aircraft Types I	24+0	3,0

PLT 253	Air Traffic Communication I	2+0	4,5	PLT 262	VFR Navigation and Flight Planning	18+0	3,0
PLT 255	Aircraft General Knowledge IV (Flight Instrument)	3+0	4,0	PLT 264	Standard Operation Procedures I	30+0	2,5
PLT 257	Radio Navigation I (Basic Radio Aids)	4+0	5,0	PLT 266	Safety Management System II	18+0	2,0
				PLT 268	Practice in Flight I	0+15	3,5
				PLT 270	Practice in Flight II	0+46	7,0
				PLT 272	Practice in Flight III	0+24	4,5
			30,0				30,0
	II. Period / II. Phase				II. Period / III. Phase		
PLT344	Mass and Balance	30+0	4,5	ING 329 (Eng)	Aviation English IV	60+0	3,0
PLT348	Performance	40+0	5,0	PLT 336	Emergency Procedures II	15+0	1,5
PLT350	Radio Navigation II (Radar, RNAV)	28+0	5,5	PLT 338	Normal Procedures II	15+0	1,5
				PLT 342	Air Traffic Communication II	12+0	1,5
				PLT 352	Basic Instrument	18+0	4,5
				PLT 354	Radio Navigation III (FMS)	18+0	6,0
				PLT 356	Flight Planning and Monitoring	48+0	7,5
				PLT 358	Introduction to Aircraft Types II	24+0	3,0
				PLT 360	Standard Operation Procedures II	15+0	1,5
			15,0				30,0
	III. Period / I. Phase				III. Period / II. Phase		
ING 331 (Eng)	Aviation English V	60+0	3,0	PLT 372	Simulator Application II	0+14	4,0
PLT 362	Practice in Flight IV	0+20	7,0	PLT 374	Practice in Flight VI	0+22	6,0
PLT 364	Safety Management System III	12+0	1,5	PLT 388	Simulator Application III	0+8	2,0
PLT 366	Radio Instrument and Radio Instrument Cross Country	30+0	4,5	PLT 456	Night Flight	12+0	3,0
PLT 368	Simulator Application I	0+15	5,5	SAŽ 401	First Aid	18+0	3,0
PLT 370	Practice in Flight V	0+16	6,0				
PLT 387	Instrument Flight Charts	18+0	2,5				
			30,0				18,0
	III. Period / III. Phase				III. Period / IV. Phase		
PLT 422	Multy Crew Cooperation (MCC)	25+0	3,5	PLT 462	Normal Procedures III	18+0	2,0
PLT 447	Avionics II	30+0	4,0	PLT 464	Emergency Procedures III	12+0	1,5
PLT 460	MCC Simulator Application	0+15	4,5	PLT 468	Introduction to Aircraft Types III	24+0	1,5
				PLT 470	Standard Operation Procedures III	18+0	3,0
				PLT 472	Practice in Flight VII	0+11	2,0
					Area Elective Course		5,0
			12,0				15,0

AREA ELECTIVE COURSES

ESTÜ 305	Sustainable Marketing	3+0	5,0	PLT 480	Situational Awareness in Pilots	2+0	5,0
PLT 478	Flight Management System	28+0	5,0	PLTSJ402	Internship	0+2	5,0

ELECTIVE COURSES

BEÖ 155	Physical Education	2+0	2,0	ESTÜ 131	Argentine Tango Dance	0+2	2,0
ESTÜ 101	Introduction to University Life	0+1	2,0	ESTÜ 132	History of Political Thought	3+0	3,0
ESTÜ 104	Academic and Life Skills	2+1	3,0	ESTÜ 133	Disability and Awareness	3+0	3,0
ESTÜ 106	Project Management	2+1	3,0	ESTÜ 201	Turkish Sign Language	3+0	3,0
ESTÜ 111	Volunteering Works	1+2	4,0	ESTÜ 203	Introduction to Sociology	3+0	3,0
ESTÜ 112	Cyber Security for Everyone	2+0	2,0	ESTÜ 301	Science Communication	2+0	3,0
ESTÜ 113	Design Thinking	3+0	3,0	ESTÜ 307	Children Rights and Family Education	2+0	2,0
ESTÜ 114	Visual Thinking	3+0	3,0	ESTÜ 401	Introduction to Professional Life	1+1	2,0
ESTÜ 115	Photographic Viewpoint	2+1	3,0	ESTÜ 402	Coaching and Leadership	3+0	3,0
ESTÜ 116	Computer Aided Design I	3+0	3,0	ESTÜ 403	Basic Computer Utilization	3+0	4,0
ESTÜ 117	Computer Aided Design II	3+0	3,0	HYO 409	Case Studies in Aviation Safety	2+0	3,0
ESTÜ 118	Visual Thinking with Concepts	3+0	3,0	MÜZ 155	Turkish Folk Music	2+0	2,0
ESTÜ 123	Gender Equality in Work Life	2+0	3,0	MÜZ 157	Traditional Turkish Art Music	2+0	2,0
ESTÜ 125	Philosophy of Science	3+0	3,0	SAN 155	Hall Dances	0+2	2,0
ESTÜ 127	Diction	1+2	3,0	SNT 155	History of Art	2+0	2,0
ESTÜ 129	Turkish as a Foreign Language I	2+0	2,0	SOS 155	Folkdance	2+0	2,0
ESTÜ 130	Turkish as a Foreign Language II	2+0	2,0	THU 203	Community Services	0+2	3,0

DEPARTMENT OF AIRFRAME AND POWERPLANT MAINTENANCE

In this department, highly qualified maintenance approval personnel are educated, according to the international standards, for aviation sector. In the Department of Airframe and Powerplant Maintenance, education is offered according to European Union Standards, EASA Part-66 Aircraft Maintenance Personnel Regulations, and EASA Part-147 Aircraft Maintenance Educational Institutions Regulations. The Faculty has the SHY-147 Aircraft Maintenance Education Institution Authorization Certificate from the General Directorate of Civil Aviation of the Ministry of Transportation. Besides the theoretical courses, students get education tailored to application in the Aerodynamics, Hydraulic Systems, Material Science, CAD/CAM, Computer laboratories; Airframe, Powerplant, Test Cell Workshops and SHY-145 certified maintenance facilities. Every academic year, Sixty students are accepted by centralized nationwide entry examinations. In the department, one year of optional Intensive English Language education is followed by four years of undergraduate education. 40 workdays of internship is required.

The graduates work at Turkish Airlines, Turkish Air Force Air Supply and Maintenance Centers, private airline companies, and at the technical departments of other companies operating in the aviation sector.

Department Head : Prof. Dr. Enis T. TURGUT
Deputy Department Head :

PROGRAM

I. Semester				II. Semester			
FİZ 105	Physics I	4+0	6,0	FİZ 231	Waves and Optics	4+0	5,0
FİZ 107	Physics Laboratory I	0+2	1,5	HYO 116	Aviation Legislation	3+0	4,0
HYO 115	Introduction to Civil Aviation	2+0	3,0	HYO 225	Aircraft Maintenance Terminology I	3+0	4,0
MAT 801	Mathematics I	4+0	4,0	MAT 802	Mathematics II	4+0	4,0
MAT 803	Linear Algebra	3+0	3,0	TAR 165	Atatürk's Principles and History of Turkish Revolution I	2+0	2,0
TRS 131	Technical Drawing and Standards	4+0	4,0	TÜR 126	Turkish Language II	2+0	2,0
TÜR 125	Turkish Language I	2+0	2,0		Foreign Language Course		3,0
UGB 105	Theory of Flight	3+0	3,5		Elective Courses		6,0
	Foreign Language Course		3,0				
			30,0				30,0
III. Semester				IV. Semester			
HYO 122	Aircraft Materials I	2+1	3,0	HYO 222	Electrical Fundamentals II	3+0	3,0
HYO 221	Electrical Fundamentals I	3+0	3,0	HYO 224	Electrical Fundamentals Laboratory II	0+2	1,5
HYO 223	Electrical Fundamentals Laboratory I	0+2	1,5	İNG 210	(Eng) English Language Skills IV	3+0	3,0
HYO 226	Aircraft Maintenance Terminology II	3+0	4,0	MEK 218	Fluid Mechanics	3+0	3,0
İNG 209	(Eng) English Language Skills III	3+0	3,0	UGB 202	Electronic Fundamentals I	2+1	3,5
MAT 208	Differential Equations	3+0	3,5	UGB 203	Aircraft Materials II	3+0	4,0
MEK 112	Mechanis	3+0	3,0		Electrical Fundamentals II		12,0
TAR 166	Atatürk's Principles and History of Turkish Revolution II	2+0	2,0				
TER 203	Thermodynamics	4+0	4,0				
	Elective Course		3,0				
			30,0				30,0
V. Semester				VI. Semester			
HYO 319	Aircraft Aerodynamics	3+1	4,0	HYO 313	Electrical Machinery	3+0	3,0
HYO 336	Aircraft Electrical Systems	4+0	4,0	HYO 315	Electrical Machinery Laboratory	0+2	1,5
İNG 309	(Eng) English Language Skills V	3+0	3,0	MEK 318	Flight Mechanics	3+0	3,0
UGB 307	Electronic Fundamentals II	2+1	4,0	UGB 320	Aircraft Hardware and Applications II	3+3	4,5
UGB 315	Gas Turbine Engine Theory	3+0	4,0	UGB 322	Gas Turbine Engine Systems I	4+0	4,5
UGB 317	Aircraft Hardware and Applications I	3+5	6,0	UGB 324	Aircraft Structure and Systems I	4+1	4,5
UGB 321	Aircraft Electricity Workshop	2+4	5,0	UGB 326	Avionic Systems	4+0	4,0
				UGB 328	Non-destructive Inspection Methods	0+3	2,0

						Area Elective Course	3,0
			30,0				30,0
	VII. Semester				VIII. Semester		
HYO 338	Electronic Instrument Systems	3+0	4,0	HYO 420	Electromagnetic Environment	2+0	2,5
HYO 419	Modern Avionic Systems	2+0	2,5	HYO 436	Flight Controls	2+0	2,0
HYO 422	Human Factors	3+0	3,0	UGB 412	Aircraft Structure and Systems III	3+0	4,0
UGB 407	Aircraft Structure and Systems II	3+0	4,0	UGB 415	Applications of Powerplant-Airframe Maintenance	0+3	3,0
UGB 409	Maintenance Practices	3+5	6,5	UGB 420	Propeller	3+0	4,0
UGB 411	Gas Turbine Engine Systems II	4+0	5,5	UGB 426	Gas Turbine Engine Workshop	0+8	5,0
	Area Elective Course		4,5	UGBSJ 402	Internship I	0+2	5,0
					Area Elective Course		4,5
			30,0				30,0

AREA ELECTIVE COURSES

ESTÜ 305	Sustainable Marketing	3+0	5,0	İNG 146	(Eng) Business English II	2+0	2,0
ESTÜ 405	Computer Programming	3+0	5,0	İNG 310	(Eng) English Language Skills VI	3+0	3,0
HYO 105	Air Transportation Management	3+0	3,0	SHU 424	Aircraft Maintenance and Reliability Management	3+0	3,0
HYO 114	Ergonomics in Aviation	4+0	5,0	UGB 204	Aircraft Powerplants (TEI/TUSAS)	5+9	12,0
HYO 304	Aircraft Manufacturing Technologies	3+0	4,5	UGB 206	Aircraft Powerplants (HUBF)	5+9	12,0
HYO 406	Helicopter Theory and Systems	3+0	4,5	UGB 417	Magnetic Particle and Ultrasonic Inspection	3+0	4,5
HYO 409	Case Studies in Aviation Safety	2+0	3,0	UGB 422	Environmental Impact Assessment in Aviation	3+0	4,5
HYO 411	Vibration Analysis in Aircrafts	2+1	3,0	UGB 424	Reciprocating Engines	1+3	4,5
HYO 413	(Eng) Aircraft Systems Design	2+2	4,5	UGB 425	Aircraft Maintenance Practices M11	0+5	4,5
HYO 415	Academic and Technological Progresses in Aviation	3+0	4,5	UGB 428	Aircraft Maintenance Practices M7	0+4	4,5
HYO 416	Reciprocating Engine Theory, Systems and Maintenance	3+0	3,0	UGB 430	Aircraft Maintenance Practices M17	0+4	3,0
HYO 421	Automatic Flight Systems	3+0	3,0	UGB 432	Vocational Training in Workplace	0+8	15,0
HYO 425	Safety Management System	2+0	3,0	UGBSJ 404	Internship II	0+2	2,5
HYO 428	Aviation Meteorology	3+0	3,0	UMB 407	Heat Transfer and Aircraft Engine Applications	3+0	4,5
İNG 145	(Eng) Business English I	2+0	2,0				

ELECTIVE COURSES

BEÖ 155	Physical Education	2+0	2,0	ESTÜ 301	Science Communication	2+0	3,0
BİL 303	Visual Programming	3+0	3,0	ESTÜ 307	Children Rights and Family Education	2+0	2,0
ESTÜ 101	Introduction to University Life	0+1	2,0	ESTÜ 401	Introduction to Professional Life	1+1	2,0
ESTÜ 104	Academic and Life Skills	2+1	3,0	ESTÜ 402	Coaching and Leadership	3+0	3,0
ESTÜ 106	Project Management	2+1	3,0	ESTÜ 403	Basic Computer Utilization	3+0	4,0
ESTÜ 111	Volunteering Works	1+2	4,0	HYO 113	Aviation History	2+0	2,0
ESTÜ 112	Cyber Security for Everyone	2+0	2,0	HYO 120	Basics of Rescue and Fire Fighting	2+0	3,0
ESTÜ 113	Design Thinking	3+0	3,0	HYO 334	Sustainable Aviation Technologies	2+0	2,0
ESTÜ 114	Visual Thinking	3+0	3,0	İLT 307	Communication	3+0	3,0
ESTÜ 115	Photographic Viewpoint	2+1	3,0	İSG 401	Occupational Health and Safety I	2+0	2,0
ESTÜ 116	Computer Aided Design I	3+0	3,0	İSG 402	Occupational Health and Safety II	2+0	2,0
ESTÜ 117	Computer Aided Design II	3+0	3,0	MÜZ 155	Turkish Folk Music	2+0	2,0
ESTÜ 118	Visual Thinking with Concepts	3+0	3,0	MÜZ 157	Traditional Turkish Art Music	2+0	2,0
ESTÜ 123	Gender Equality in Work Life	2+0	3,0	REK 242	Sports Aviation	1+2	3,0
ESTÜ 125	Philosophy of Science	3+0	3,0	SAĞ 102	First Aid	2+0	2,5
ESTÜ 127	Diction	1+2	3,0	SAN 155	Hall Dances	0+2	2,0
ESTÜ 129	Turkish as a Foreign Language I	2+0	2,0	SNT 155	History of Art	2+0	2,0
ESTÜ 130	Turkish as a Foreign Language II	2+0	2,0	SOS 155	Folkdance	2+0	2,0
ESTÜ 131	Argentine Tango Dance	0+2	2,0	SOS 312	Organizational Behavior	3+0	4,5
ESTÜ 132	History of Political Thought	3+0	3,0	THU 203	Community Services	0+2	3,0
ESTÜ 133	Disability and Awareness	3+0	3,0	TKY 304	Quality Assurance Systems	2+0	3,0
ESTÜ 201	Turkish Sign Language	3+0	3,0		Sports Aviation		
ESTÜ 203	Introduction to Sociology	3+0	3,0				

FOREIGN LANGUAGE COURSES

İNG 111	(Eng)	English Language Skills I	3+0	3,0	İNG 195	(Eng)	English for General Purposes I	4+0	3,0
İNG 112	(Eng)	English Language Skills II	3+0	3,0	İNG 196	(Eng)	English for General Purposes II	4+0	3,0

COURSE CONTENTS

HYO 425 Safety Management System**2+0 3,0**

Safety Management System: Hazard, Risk; Safety Management Fundamentals; Safety Culture; Safety Performance Management; Safety Data Collection; Safety Analysis; State Safety Programme; Safety Management Systems: Safety management system framework, Safety policy and objectives, Safety risk management, Safety assurance, Safety promotion.

UGB 206 Aircraft Powerplants (HUBF)**5+9 12,0**

Main Engine Knowledge: Air inlet, Compressors, Combustion chamber; Turbine Section: Types of turbine blades and their operating characteristics; Exhaust; Bearings and Seals; Lubricants and Fuels; Lubrication Systems; Fuel Systems; Air Systems; Starting and Ignition Systems; Engine Indication Systems; Power Increasing Systems; Engine Test; Engine Storage and Preservation.

UGB 204 Aircraft Powerplants (TEI/TUSAS)**5+9 12,0**

Health of Workers and Security of Work; Technical English; Main Engine Knowledge of F-110 and F-100: Air inlet, Compressors, Combustion chamber; Turbine Section: Types of turbine blades and their operating characteristics; Exhaust; Bearings and Seals; Lubricants and Fuels; Lubrication Systems; Fuel Systems; Air Systems; Starting and Ignition Systems; Engine Indication Systems; Power Increasing Systems; Baroscopic Control; Quality Control Systems; Paper Works of Engine Installation; Education of Engine Installation Workshop; Engine Test; Engine Storage and Preservation.

SHU 305 Business Analytics**2+1 6,0**

Business Analytics Framework and Basic Concepts: Business analytics and business intelligence, Big data, Spreadsheets; Descriptive Analytics; Predictive Analytics; Business Analytics Software; Data Preparation: Organizing data, Classifying data, Cleaning data, Inspecting data; Data Management and Analysis with Spreadsheets; Data Visualization; Descriptive Analytics with Spreadsheets; Predictive Analytics with Spreadsheets; Data Mini.

ESTÜ 305 Sustainable Marketing**3+0 5,0**

The Concept of Sustainability; Sustainability and Environment; Marketing and Sustainable Marketing: Sustainability and marketing relationship, Historical process in sustainable marketing, Basic principles and framework of sustainable marketing; Sustainable Marketing Environment: Sustainability and socio-cultural environment, Sustainability and economic environment, Sustainability and competitive environment, Sustainability and technological environment, Sustainability and legal environment, Sustainability and natural environment; Sustainable Marketing Mix: Sustainable products and services, Sustainable pricing, Sustainable distribution, Sustainable promotion.

PLT 480 Situational Awareness in Pilots**2+0 5,0**

Introduction to Situational Awareness: Definition and Importance of Situational Awareness; Levels of Situational Awareness; Components of Situational Awareness; Factors Affecting Situational Awareness: Workload, Fatigue, Stress, Burnout, Physiological Factors, Lack of Communication, Lack of Experience/Training, Cognitive Bias, Spatial Disorientation; Measuring Situational Awareness: Tools and Methods; Cockpit Design for Situational Awareness; Accident/Incident Case Studies.

***The contents of the newly opened courses in the 2023-2024 Academic Year are available above. You can access other course contents from the 2022-2023 Academic Year course contents section.**