

## CIVIL AIR TRANSPORTATION OPERATIONS

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SHI141	Ramp Safety and Apron Rules	(2,0,0)	2	3	Compulsory

Apron Safety Rules. Placement of Ground Service Equipment. Safety Areas and Safety Circles. Loading and Unloading of Aircraft. Loading Luggage Trolleys. Refueling. Ground Handling Equipment.(GSE). Out of Service Equipment. Marshalling. Airplane Passenger Gates. Air Bridges. Ambulift. Dangerous Goods(DGR)

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SHI142	Passenger Services	(2,2,0)	3	6	Compulsory

Passenger Services Concept. Regulations Associated with Passenger Services. Concepts Related to Passenger Services. Analysis of Flight Points. Tickets and Types of Tickets. Introduction of Flight Coupon. Passport Operations. Visa Processing. Health Papers. Passengers Requiring Special Service. Airlines' Conditions for Offering Special Assistance. Passenger Codes Requiring Special Assistance. Conditions for Requesting Medical Reports from Passengers Requiring Special Assistance. Passengers Requiring Special Assistance. Potentially Dangerous Passengers. Other Special Service Passengers. Passenger Documents Requiring Special Service. Passenger Special Service Message. Baggage and Baggage Types. Baggage Carrying Limits. Baggage Tagging. Excess Baggage Applications. Purposes and Types of Admission to Flight Procedures. Admission Methods. Documents Used in Admission to Flight Procedures. Boarding Process. Outbound and Inbound Passenger Operations. Messages Regarding Passenger Services. Delayed, Lost and Damaged Baggage. Passenger Rights for Delayed, Lost and Damaged Baggage.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SHI143	Load control and Communication	(4,2,0)	5	8	Compulsory

Airport, Airlines and Aircraft Registries Coding Systems. Aircraft Registration-Load Control And Its Stages.Aircraft And Aircraft Types-Parts.Newton's Laws Of Motion- Bernoulli's Theorem.Aerodynamic Section And Angle Of Attack-Factors Influencing Lifting Force.Aircraft Structure-Hull-Traffic Load-Load And Special Load Codes, Definitions - Cargo-Notoc- Considerations in Loading Aircraft. Loading Procedure-Completion of Loading- Dimensional Limitation (Dimensions=Dimensions)- Longitudinal Load Limit /Running(Linear) Load Limitation- Area Limit / Area Load Limitation.Loading Principles-Load and Balance-Load Importance of Control. Priority in Loading - Load Planning and Loading. Aircraft Weight Definitions - Maximum Structural Design Weights of Aircraft. Aircraft Fuel – Operational Weights.Load-Sheet & Trip Info- Loading Instruction Report ( Lr).Manual Load-Sheet - System Load And Trim Sheet (Edp)Last Minute Changes (Lmc) Messages-Loading Messages.Communication

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SHI241	Flight Operation	(2,0,0)	2	3	Compulsory

Load Control and Balance/ Aircraft Structure. Load and Special Load Codes, Definitions. Structural Load Limits. Loading Principles, Load Planning and Loading, Types of Unit Loading Vehicles (ULD). Preparation of Loading Plan. Preparation of Load and Trimsheet. Documentation. Equipment Used, Pushback – Headset Procedures. Control of Unit Loading Tools. Communication. Aviation Meteorology Apron Safety

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SHI242	Cargo Operations	(3,0,0)	3	4	Compulsory

Legal Framework of International Cargo Transportation. International Organizations in Air Cargo Transportation. Ground Handling Organizations. Strengths and Weaknesses of Cargo Air Transport. Cargoes

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
					According to Aircraft Loading Type. Cargoes According to the Characteristics of the Cargo. General Cargoes.Special Cargoes. Cargo Planes and Features. Antonov Cargo Planes. Ilyushin-Boeing-Mc Donnell Douglas Cargo Aircraft. Passenger Planes and Cargo Transportation.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
SHI243	Airport Activities and Equipments	(2,0,0)	2	3	Elective
					Major management basic concepts related to airport management and equipment. Relate airport operations and equipment management functions and systems to management theory.Introduction of airport classes certifications divisions and properties. Airport activities, promotion of services.Airport operational activities and emergency management Airport operating features, functions systems and capacity determination methods.New facts, organizational system, management processes and technologies in airport operations Airport efficient information management systems hardware.Airport geographic revenue management information system.Airport hardware systems management process and environmental approach.Air activities and hardware intelligent management process

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY101	Introduction to Civil Aviation	(2,0,0)	2	3	Compulsory
					Definition of Aircraft. Aircraft lighter than Air. Aircraft heavier than Air. Flight Principle of Aircraft heavier than Air. A Brief History of Aviation. Civil Aviation Activities. Economic Benefits of Aviation. Aviation Personnel and Training. Airline Business Terms. Classification of Airline Businesses. Management Organization of Airline Businesses. Revenue and Expense of Airline Businesses. Airport Identification Codes. Airport Elements. Visual Aids for Navigation. Airport Ground Services.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY102	Principles of Flight & Aircraft General Knowledge	(2,0,0)	2	4	Compulsory
					Introduction & History. Basic Physical Dimensions.Basic Concepts.Standard Atmosphere.Geometrical Properties of the Wing. Aerodynamic Properties of the Wing. Body. Tail Surfaces (Stability and Control).Landing Gear. Piston Engines.Gas Turbine Engines.Hydraulic Systems. Flight Control Systems. Pneumatic Systems. Pressurization and Oxygen Systems. Protection and Emergency Systems. Aircraft Electrical Systems. Flight Instruments and Indicator Systems. Aircraft Performance.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY103	Aviation Terminology	(2,0,0)	2	3	Compulsory
					Importance and Necessity of Using Terms.Terms Used in Aviation and Their Explanation.Airport Terms and Codes. Aviation Terms. Flight Terms. Cockpit Terms. Cabin Terms. Galley Terms. Lavatory Terms.Emergency Related Terms.Terms Related to Transportation, Passenger and Crew. Terms Related to Aircraft and Parts.Weather Related Terms

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY104	Introduction to Meteorology	(2,0,0)	2	3	Compulsory
					Meteorological Definitions and History of Meteorology. Earth and Atmosphere, Standard Atmosphere and ICAO Atmosphere. Components of Atmosphere Temperature, Density, Pressure and Humidity. Wind. Circulation of Atmosphere. Clouds and Precipitation. Meteorological Visibility Distance. Factors Limiting Visibility. Meteorological Events. Meteorological Forecasts.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY105	Air Transportation Organisations and Responsibilities	(2,0,0)	2	3	Compulsory

Responsibilities of the captain in command. Cabin chief and cabin crew powers and responsibilities. Mandatory documents and documents to be carried by cabin crew. Uniform dress code of cabin crew. Civil Aviation Inspections / Safa inspections. Crew Formation Chart. Incapacity Cabin Crew. Qualification and Performance Evaluations of Cabin Crew. Cabin Personnel Recruitment Standards. Cabin Crew Flight Duty Limits. Certification .Sickness on duty day .Flight Personnel Disciplinary Actions

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY111	Dangerous Goods in Air Transportation	(2,0,0)	2	3	Compulsory

What is the meaning of dangerous goods, international authorities in this field. Dangerous goods rules book. Carrier and shipper responsibilities. Hidden dangerous goods. Dangerous goods prohibited to be transported by air. Restrictions and approval requirements. IATA DGR booklet case studies. Transport of dangerous goods in accordance with the rules. Classifications and their contents. Classifications and their contents. Labeling. Action style against dangerous substance released during boarding and flight, DGR Kit. Emergency action chart, case studies.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY211	Aviation Law	(2,0,0)	2	3	Compulsory

Definition and terminology of Air Law , Classification of Air Law , History of Air Law , Sources of Air Law 2 , Major international organizations in aviation , Regional organizations in aviation , Other Organizations in Aviation, International conventions governing civil aviation in the period prior to the Chicago Convention , Convening, conducting and concluding the Chicago conference, International civil aviation convention technical annexes, Air traffic rights, Scheduled and non-scheduled international air services, Other matters regulated at the Chicago Convention, Carrier's Responsibility in Air Freight, Regulation of International Air Freight, Warsaw Convention, Montreal Convention, Aircraft and Air Carriage Contract , Definition, types and legal nature of the Aircraft, Nationality of aircraft, Aircraft Registry, Transfer of Ownership of the Aircraft, Aircraft Mortgage , Rental of aircraft , Air carriage contract, Other International Aviation Conventions, Rome Convention and Montreal Protocol, Responsibility towards third parties in Turkish Civil Aviation Law, International conventions on aviation security, Other conventions relating to aviation security, Passenger Rights in Air Transport, Passenger Traffic and the concept of passenger rights, Bilateral air transport agreements and types of bilateral agreements, General structure of bilateral air transport agreements and bilateral agreements in Turkey, Proper preparations for liberal multilateral air service agreements, Insurance concept and aviation insurance, Insurance legislation and aviation insurance in Turkey, Competition Law Practices in Air Transport, Competition law concept and its historical development, Application of competition law in the air transport sector in the European Union and Turkey.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY212	Aviation Security	(2,0,0)	2	3	Compulsory

Introduction to Aviation Security. Overview of Terrorism-History of Attacks on Civil Aviation. International Organizations and Contracts. Regulations Regarding Aviation Security in Turkey / Mshgp. Physical Security Measures and Security Equipment. Security Areas and Applications. Case Studies. Air Cargo Security. Human Resources in Aviation Security. Cyber Attacks And Air Traffic Management Security.New Trends in Aviation Safety. Incident Reporting / Contingency Actions. Protection of Aircraft. Communication and Body Language/ Case Studies.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY213	Aviation Safety	(2,0,0)	2	4	Compulsory
<p>Explaining the basic concepts of aviation safety. Explaining the concepts of Safety and Security. Investigation of Unsafe Incidents Aircraft Accidents and Unsafe Incidents. Examining the relationship between Human Factors and the SHEL Model. Examining the factors affecting human performance. International History of Aviation Security and Security Events Physical Security Measures at Airports. Human Error and Violations. Error Management. Swiss Cheese Model.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
HMY214	Occupational Health and Safety in Aviation	(2,0,0)	2	3	Elective
<p>Definition, scope and content of Occupational Health and Safety (OHS). Its historical development and formation. International and national institutions related to OHS. Legal legislation on which it is based. Organization within the institution. Hygienic, psychological, ergonomic and technical dimensions. Occupational diseases and accidents. Emergency plans. Precautions to be taken in different environments, techniques and conditions. Measures to be taken in different environments, techniques and conditions. Ethics in Working Life. Adult Education, Health and Safety Education at Workplace. Its place and importance in civil aviation.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ENG115	English I	(6,0,0)	6	8	Compulsory
<p>This course aims at A1 and A2 levels in English, as outlined by the Common European Framework of Reference (CEFR). The course content includes reading, writing, listening and speaking components of general English.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ENG116	English II	(6,0,0)	6	8	Compulsory
<p>Reading and understanding simple information and texts; and filling out forms and writing short texts on personal information, communicating in familiar situations; Managing most situations related to living and traveling to express or express ideas of personal interests such as experiences, events, hopes and passions, and to express ideas, reasons and plans.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ENG123	English I	(2,2,0)	3	4	Compulsory
<p>This course aims at A1 and A2 levels in English, as outlined by the Common European Framework of Reference (CEFR). The course content includes reading, writing, listening and speaking components of general English.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ENG124	İngilizce II	(2,2,0)	3	4	Compulsory
<p>This course aims at B1 level in English, as outlined by the Common European Framework of Reference (CEFR). The course content includes reading, writing, listening and speaking components of general English at B1 level.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ENG215	Listening and Pronunciation	(2,0,0)	2	4	Compulsory
<p>Aviation English is an intensive English language course designed for professional flight students who need to develop their English language proficiency in accordance with the International Civil Aviation Organization (ICAO). This is a fluency-based course, which is designed to engage and inform students by</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
					exposing them to a wealth of stimulating and varied listening material. The emphasis on aviation related real word tasks assists the development of students' (spoken) accuracy in grammar, vocabulary, functions and pronunciation.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ENG216	Oral Communication Skills	(2,0,0)	2	4	Compulsory
					Organization, identifying and producing different types of presentations, descriptive, narrative, persuasive and informative presentations and covering visual aids as well as research methods are some of the topics that will be covered.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ENG217	Aviation English I	(3,0,0)	3	5	Compulsory
					Aviation English is an intensive English language course designed for professional aviator students who need to develop their English language proficiency in accordance with the International Civil Aviation Organization (ICAO). This is a fluency-based course, which is designed to engage and inform students by exposing them to a wealth of stimulating and varied listening material. The emphasis on aviation related real word tasks assists the development of students' (spoken) accuracy in grammar, vocabulary, functions and pronunciation.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
ENG218	Havacılık İngilizcesi II	(3,0,0)	3	5	Compulsory
					Aviation English II is an intensive English language course designed for professional aviator students who need to develop their English language proficiency in accordance with the International Civil Aviation Organization (ICAO). This is a fluency-based course at an advanced level, which is designed to engage and inform students by exposing them to a wealth of stimulating and varied listening material. The emphasis on aviation related real word tasks assists the development of students' (spoken) accuracy in grammar, vocabulary, functions and pronunciation.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
BIL101	Education Technologies	(3,0,0)	3	3	Compulsory
					Basic concepts of information technologies, software and hardware, operating systems in general, word processing programs, spreadsheet programs, data presentation, internet use in education, the effects of information technologies on social structure and its place in education, information systems security and related ethical concepts.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
FIZ101	Physics	(3,0,0)	4	6	Compulsory
					Measurement, vectors, kinematics, force, mass. Newton's laws, applications of Newton's laws. Work and kinetic energy. Conservation of linear momentum. Impulse, collisions, rotation, moments of inertia. Torque, angular momentum, conservation of angular momentum, static equilibrium.

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
MAT103	Mathematics	(3,0,0)	3	4	Compulsory
					Functions, limits and continuity. Derivatives. Mean value theorem. Sketching graphs. Definite integrals, infinite integrals (antiderivatives). Logarithmic, exponential, trigonometric and inverse trigonometric functions and their derivatives. L'Hospital's rule. Techniques of integration. Applications of the definite integral, improper integrals.



Course Code	Course Name	(T,A,L)	Credit	ECT S	Compulsory/Elective Course
AIT101	Atatürk's Principles and the History of Turkish Revolution I	(2,0,0)	2	2	Compulsory
<p>The reasons that prepared the collapse of the Ottoman Empire and the Turkish Revolution. Disintegration of the Ottoman Empire, Tripoli War, Balkan Wars, First World War. Armistice of Mudros. The situation of the country in the face of the occupations and the reaction of Mustafa Kemal Pasha, the departure of Mustafa Kemal Pasha to Samsun. The opening of the Turkish Grand National Assembly of the National Struggle. Treaty of sevr. The Lausanne Peace Treaty. Atatürk's Principles: Republicanism, Nationalism. Populism, Statism. Secularism, Revolutionism.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECT S	Compulsory/Elective Course
AIT102	Atatürk's Principles and the History of Turkish Revolution II	(2,0,0)	2	2	Compulsory
<p>Abolition of the Sultanate; Proclamation of the Republic; Taking the Election Decision in the First Parliament; Establishment of the People's Party; Ankara Becoming the Capital, Proclamation of the Republic and Reactions; Abolition of the Caliphate (The Emergence of the Problem of the Caliphate and the Events Preparing the Abolition of the Caliphate), Progressive Republican Party and Sheikh Said Rebellion; Law of Takrir-i Sukun; Closing the Progressive Republican Party; İzmir Assassination Attempt), Free Republican Party and Menemen Incident; An Overview of Atatürk-Inönü Separation, Revolutions and Their Goals; Revolutions in Law; 1924 Organization-ı Esasiye Law; Adoption of the Turkish Civil Code; Adoption of Other Basic Laws; Revolutions in Women's Rights, Education and Culture; The Law of Unification of Education; Adoption of the New Turkish Alphabet; New Understanding of History and Language; From Darülfünun to Istanbul University; Fine Arts, Developments in Economics; Late Ottoman Economy; Turkish Economy Congress and Its Results; Economic Activities in the First Years of the Republic; Transition to the Practice of Statism, Revolutions Made in Social Life (Modernization in Clothing: The Law on Wearing Hats; Closure of Lodges, Zawiya and Tombs, Adoption of International Time, Calendar, Numbers, Measurements and Week Holidays; Adoption of the Law on Surnames; Developments), Turkey's Foreign Policy in Atatürk Era; Years 1919-1923; Years 1923-1930, Going to the Second World War and Turkish Foreign Policy 1931-1939, Principles of Atatürk; General Overview of Atatürk's Principles; Republicanism, Nationalism, Populism, Statism, Secularism, Revolutionism, İsmet İnönü Period (1938-1950); Domestic Policy During the Second World War; Establishment of the Democratic Party, Democratic Party Period (1950-1960); May 27 Military Intervention and National Unity Committee</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
TUR101	Turkish I: Written Expression	(2,0,0)	2	2	Compulsory
<p>Reading passages related to the chapter; grammar studies; vocabulary and translation activities; listening activities; debates on current issues related to the department (Repetition of tenses, Internet history, Health and medicine, passive frameworks, Social issues, Environmental issues, Repetition of modals, Law and punishment, repetition of adjective phrases, Language and Literature, Repetition of noun phrases.</p>					

Course Code	Course Name	(T,A,L)	Credit	ECTS	Compulsory/Elective Course
TUR102	Turkish II: Oral Expression	(2,0,0)	2	2	Compulsory
<p>Spelling, punctuation and composition (punctuation marks, other signs), Spelling, spelling rules (capital letters, spelling of numbers, spelling of abbreviations, spelling of quoted words), Composition (purpose of composition, method of writing composition), plan in composition, introduction, development, result, Expression features, clarity in expression, simplicity in expression, clarity and sincerity in expression, Expression disorders (using synonyms in sentences), Misuse of idioms, Expression styles (explanation, story, concise expression, description, satire, portrait, proof, speech, Verbal expression types (daily and</p>					

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	impromptu speech, prepared speech, panel discussion, debate, panel), Written expression types (letter, telegram, greeting, invitation, literary letter), business letters, official letter, petition, report, report, decision, advertisement, conversation, criticism, memoir, travel writing, interview, survey, autobiography, biography, novel, story, fairy tale, fable, theatre, tragedy,drama ,scenario) .				