

School of Business and Management Sciences / Aviation Management

2024 - 2025 Academic Year

AVIATION SECURITY

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
AVIATION SECURITY	HVY4114348	Fall Semester	3+0	3	5
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Elective				
Course Coordinator	Assist.Prof. Özlem İLDAY				
Name of Lecturer(s)	Assist.Prof. Özlem İLDAY				
Assistant(s)					
Aim	Comprehensive understanding of the importance of security issues in aviation, the measures to be taken to prevent illegal threats and attacks, and the international legislation and practices determined in this regard.				
Course Content	This course contains; Introduction to Aviation Security - Basic concepts, components of aviation security service, reasons for targeting aviation, threats and risks, terrorism, threatening passengers, historical case studies,Regulations of Civil Aviation Security,Organizations Regulating Civil Aviation Security,Airport physical security measures, airport structural security elements,Airport basic security measures, airport security equipment,Security areas and applications,Air Cargo Security - Security risks, logistics process,Air Cargo Security - Cargo Security Controls, Cargo Terminal Security,Human Resources in Aviation Security,Working conditions in the aviation industry,Air Traffic Management Security,Cyber threats, attacks and countermeasures,New Trends in Aviation Security,General review and open discussion.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1 - Will be able to define the concept of aviation security.			16, 9	A	
1.1 - Explains the basic components of aviation security.			16, 9	A	
1.2 - Explains the basic threat groups in terms of aviation security.			16, 9	A	
1.3 - Understands the importance of aviation security implementations.			16, 9	A	
2 - Will be able to define the requirements of aviation security.			16, 9	A	
2.1 - Explains ICAO security regulations.			16, 9	A	
2.2 - Defines the general framework of international agreements for air transportation activities.			16, 9	A	
3 - Will be able to explain the physical security measures used in aviation security.			16, 9	A	
3.1 - Describes airport structural security elements.			16, 9	A	
3.2 - Explains basic airport security measures.			16, 9	A	
3.3 - Explains airport security equipment.			16, 9	A	
4 - Will be able to identify airport sections that are critical for security.			16, 9	A	
4.1 - Knows the equipment used for security measures in airport sections.			16, 9	A	
4.2 - Defines the security measures to be taken on the land side and terminal area.			16, 9	A	
5 - Will be able to define security processes in air cargo transportation.			16, 9	A	
5.1 - Describes air cargo security risks.			16, 9	A	
5.2 - Explains air cargo logistics processes in terms of security.			16, 9	A	
5.3 - Lists air cargo security checks.			16, 9	A	
5.4 - Explains air cargo terminal security.			16, 9	A	
6 - Will be able to explain the importance of human resources in aviation security practices.			16, 9	A	
6.1 - Defines the personnel directly or indirectly responsible for ensuring aviation security.			16, 9	A	
6.2 - Explains the training required within the scope of aviation security.			16, 9	A	
7 - Will be able to explain the importance of cyber attacks and their impact on aviation security.			16, 9	A	
7.1 - Explains the place and importance of security in the air traffic management system.			16, 9	A	
7.2 - Expresses the areas in which cyber attacks are effective in air traffic management.			16, 9	A	
7.3 - Explains security measures to prevent cyber attacks.			16, 9	A	
Teaching Methods	16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to Aviation Security - Basic concepts, components of aviation security service, reasons for targeting aviation, threats and risks, terrorism, threatening passengers, historical case studies				
2	Regulations of Civil Aviation Security				
3	Organizations Regulating Civil Aviation Security				
4	Airport physical security measures, airport structural security elements				
5	Airport basic security measures, airport security equipment				
6	Security areas and applications				
7	Air Cargo Security - Security risks, logistics process				
8	Air Cargo Security - Cargo Security Controls, Cargo Terminal Security				
9	Human Resources in Aviation Security				
10	Working conditions in the aviation industry				
11	Air Traffic Management Security				
12	Cyber threats, attacks and countermeasures				
13	New Trends in Aviation Security				

School of Business and Management Sciences / Aviation Management
2024 - 2025 Academic Year
AVIATION SECURITY
Syllabus

Lecture Schedule		
Sequence	Topics	Preliminary Preparation
14	General review and open discussion	
Evaluation Methods		Weight(%)
Midterm Exam		40
General Exam		60

Resources
"Havacılık Güvenliđi" (Aviation Security), Doç.Dr. Uđur Keskin, Anadolu Üniversitesi Yayınları, 2016 - ICAO Annex 17 - Security - Safeguarding International Civil Aviation Against Acts of Unlawful Interference