

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
AIRLINE FLEET PLANNING and FLIGHT NETWORK	HVY3113599	Fall Semester	3+0	3	4
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Fatih KARAMAN				
Name of Lecturer(s)	Assist.Prof. Fatih KARAMAN				
Assistant(s)					
Aim	It is the definition of basic information about airline fleet planning and the examination of flight network structure. It also includes an overall assessment of airline scheduling, as well as what the processes related to airline fleet planning processes are.				
Course Content	This course contains; General Features of Air Freight,Fundamentals of Fleet Planning,Types of Fleet Planning,Flight Network Structures,Scheduling in Airline Operations,Tariff Planning,Aircraft Valuation in Fleet Planning,Flight Crew Planning,Efficiency Indicators,Plane / Flight Schedule Features,Strategic Alliances,Impact of Economic Regulations on Airline Businesses,Presentation / Debate,Presentation / Debate.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1 - Will have theoretical knowledge about the problems involved in airline scheduling processes.			16, 9	A	
1.1 - Understands time table development.			16, 9	A	
1.2 - Knows how to distinguish between fleet planning and fleet assignment.			16, 9	A	
2 - Will have knowledge about aircraft fleet planning and network structures.			16, 9	A	
2.1 - Knows aircraft and fleet assignment restrictions.			16, 9	A	
2.2 - Performs aircraft turnaround and rotation exercises.			16, 9	A	
3 - Will have information about the tariff planning processes in airline companies.			16, 9	A	
3.1 - Explains tariff planning processes.			16, 9	A	
3.2 - Explains aircraft assignment processes.			16, 9	A	
4 - Will be able to explain fleet and aircraft selection criteria.			16, 9	A	
4.1 - Knows and explains the selection criteria.			16, 9	A	
4.2 - Compares the selection criteria and determines the degree of priority.			16, 9	A	
5 - Will be able to explain the airline planning process.			16, 9	A	
5.1 - Understands the strategic importance of the airline planning process.			16, 9	A	
5.2 - Knows the relationship between airline fleet, line and tariff planning.			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	General Features of Air Freight				
2	Fundamentals of Fleet Planning				
3	Types of Fleet Planning				
4	Flight Network Structures				
5	Scheduling in Airline Operations				
6	Tariff Planning				
7	Aircraft Valuation in Fleet Planning				
8	Flight Crew Planning				
9	Efficiency Indicators				
10	Plane / Flight Schedule Features				
11	Strategic Alliances				
12	Impact of Economic Regulations on Airline Businesses				
13	Presentation / Debate				
14	Presentation / Debate				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
1- "Havacılık İşletmelerinde Operasyonel Planlama" (Operational Planning in Aviation Companies), Anadolu Üniversitesi, 2016.
2- Airline Operations and Management, A Management Textbook, Gerald N. Cook and Bruce G. Billig, London, Routledge, 2nd ed., 2023.
3- Air Transportation A Management Perspective, Wensveen, John G, Routledge, 9th ed., 2023.
The Global Airline Industry, Belobaba Peter, Odoni Amedeo, Barnhart Cynthia, Wiley-Blackwell, 2nd Ed., 2016.