

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
AVIATION MAINTENANCE MANAGEMENT	HVY3212137	Spring Semester	3+0	3	4
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Assist.Prof. Özlem İLDAY				
<b>Name of Lecturer(s)</b>	Assist.Prof. Özlem İLDAY				
<b>Assistant(s)</b>					
<b>Aim</b>	This course aims to teach the aircraft maintenance procedures, organization, the importance of maintenance and the relevant legislation in aviation in order to maintain/fully ensure the flight safety, airworthiness and reliability of the aircraft in use.				
<b>Course Content</b>	This course contains; Introduction, Importance of Maintenance and Relation to Flight Operations,Basic concepts of aircraft maintenance, airworthiness, safety, risk, reliability, failure,Operational and legal requirements of aircraft maintenance,Regulations on maintenance issued by international aviation authorities,Maintenance organizations,Types of maintenance, planned and unplanned maintenance, preventive maintenance, corrective maintenance, line maintenance, base maintenance,Cost of maintenance and cost management,Functions required for aircraft maintenance,Structure of maintenance organizations,Engineering department and applications,Aircraft maintenance department, line maintenance unit, hangar maintenance unit, overhaul shops,Production planning and control department, planning, forecast and control functions, maintenance checks,Materials department, purchasing, receiving, storing and shipping functions,Oversight functions, quality assurance, quality control, reliability program, safety program.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1 - Will be able to understand the operational and legal requirements of aircraft maintenance.			16, 9	A	
1.1 - Explains the operational requirements of aircraft maintenance.			16, 9	A	
1.2 - Explains the legal requirements of aircraft maintenance.			16, 9	A	
2 - Will be able to explain national and international regulations regarding aircraft maintenance.			16, 9	A	
2.1 - Understands and explains the regulations of international aviation authorities.			16, 9	A	
2.2 - Describes national regulations and practices regarding maintenance.			16, 9	A	
3 - Will be able to explain the principles, objectives, maintenance types and applications of aviation maintenance operations.			16, 9	A	
3.1 - Explains maintenance costs and understands cost management.			16, 9	A	
3.2 - Defines planned and unplanned maintenance, preventive maintenance, corrective maintenance, line maintenance and base maintenance.			16, 9	A	
4 - Will be able to understand the organizational structure, planning and control activities of maintenance companies.			16, 9	A	
4.1 - Defines the structure of the maintenance organization.			16, 9	A	
4.2 - Describes planning and control activities.			16, 9	A	
5 - Will be able to explain the duties and activities of the departments in the organization.			16, 9	A	
5.1 - Describes the engineering department and its activities.			16, 9	A	
5.2 - Describes the activities of the aircraft maintenance department, line maintenance, hangar maintenance and workshops.			16, 9	A	
5.3 - Explains the production planning and control department and its activities, planning, forecasting and control functions, maintenance periods, maintenance checks.			16, 9	A	
5.4 - Explains the materials department and its activities, purchasing, receiving, storing and shipping functions.			16, 9	A	
5.5 - Describes oversight functions, quality assurance, quality control, reliability program, and safety program.			16, 9	A	
<b>Teaching Methods</b>	16: Question - Answer Technique, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequenc e</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Introduction, Importance of Maintenance and Relation to Flight Operations				
2	Basic concepts of aircraft maintenance, airworthiness, safety, risk, reliability, failure				
3	Operational and legal requirements of aircraft maintenance				
4	Regulations on maintenance issued by international aviation authorities				
5	Maintenance organizations				
6	Types of maintenance, planned and unplanned maintenance, preventive maintenance, corrective maintenance, line maintenance, base maintenance				
7	Cost of maintenance and cost management				
8	Functions required for aircraft maintenance				
9	Structure of maintenance organizations				
10	Engineering department and applications				
11	Aircraft maintenance department, line maintenance unit, hangar maintenance unit, overhaul shops				
12	Production planning and control department, planning, forecast and control functions, maintenance checks				
13	Materials department, purchasing, receiving, storing and shipping functions				
14	Oversight functions, quality assurance, quality control, reliability program, safety program				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			

Syllabus

Midterm Exam	40
General Exam	60

**Resources**

- 1- "Aviation Maintenance Management", 2nd Ed., Harry Kinnison, McGraw-Hill Education, 2012
  - 2- "Havacılık Bakım Yönetimi" (Aviation Maintenance Management), Servet Başol, 2012, Ekin Basım Yayın
- ICAO Annexes (1, 6 and 8)  
EASA Documents  
SHGM Regulations and Instructions