

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
FLIGHT PLANNING and MONITORING	HVY4114347	Fall Semester	3+0	3	5
<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>	Elective				
<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>	The course aims to enable students to understand the processes in creating a flight plan, to make range & time calculations using auxiliary graphics and tables, to make fuel planning, to fill out the standard flight plan form by preparing a flight plan report.				
<b>Course Content</b>	This course contains; Introduction to Flight Planning, General Definitions,Fuel, Time and Distance to Climb (SEP1),Recommended and economy cruise power settings, range, endurance (SEP1),Fuel, Time and Distance to Climb (MEP1),Range at standard temperatures, cruise power setting and fuel flow, true airspeed (MEP1),Endurance, fuel, time and distance to descent (MEP1),Optimum altitudes, simplified fuel planning (MRJT),Practice Examples,Detailed fuel planning (MRJT),Holding fuel planning, non-normal operation, extended range operations, fuel tankering,Flight plan content, flight rules and flight plan categories, flight plan time,Flight plan revisions in case of changes, cancelling of flight plan, termination of flight plan,Instructions for Completion of the FPL Form,Examples for Completion of the Flight Plan Form.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1 - Will be able to understand flight planning processes and requirements.			16, 9	A	
1.1 - Explains flight planning processes.			16, 9	A	
1.2 - Describes general definitions about flight planning.			16, 9	A	
2 - Will be able to make range, time calculations and fuel planning using auxiliary graphics and tables for a sample aircraft with a single piston engine.			16, 6, 9	A	
2.1 - Determines fuel, time and distance to climb.			16, 6, 9	A	
2.2 - Determines recommended and economy cruise power settings, range and endurance.			16, 6, 9	A	
3 - Will be able to make range, time calculations and fuel planning using auxiliary graphics and tables for a sample aircraft with multi piston engine.			16, 6, 9	A	
3.1 - Determines fuel, time and distance to climb and descent.			16, 6, 9	A	
3.2 - Determines recommended and economy cruise power settings, range and endurance.			16, 6, 9	A	
4 - Will be able to make range, time calculations and fuel planning for a sample jet aircraft using auxiliary graphics and tables.			16, 6, 9	A	
4.1 - Determines the optimum altitude and performs simplified fuel planning.			16, 6, 9	A	
4.2 - Performs detailed fuel planning.			16, 6, 9	A	
5 - Will be able to understand and follow the processes of creating flight plans and monitoring flights.			16, 9	A	
5.1 - Knows flight plan content, timing, filing, revision, cancellation and termination.			16, 9	A	
5.2 - Fills out the standard flight plan form.			16, 6, 9	A	
<b>Teaching Methods</b>	16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Introduction to Flight Planning, General Definitions				
2	Fuel, Time and Distance to Climb (SEP1)				
3	Recommended and economy cruise power settings, range, endurance (SEP1)				
4	Fuel, Time and Distance to Climb (MEP1)				
5	Range at standard temperatures, cruise power setting and fuel flow, true airspeed (MEP1)				
6	Endurance, fuel, time and distance to descent (MEP1)				
7	Optimum altitudes, simplified fuel planning (MRJT)				
8	Practice Examples				
9	Detailed fuel planning (MRJT)				
10	Holding fuel planning, non-normal operation, extended range operations, fuel tankering				
11	Flight plan content, flight rules and flight plan categories, flight plan time				
12	Flight plan revisions in case of changes, cancelling of flight plan, termination of flight plan				
13	Instructions for Completion of the FPL Form				
14	Examples for Completion of the Flight Plan Form				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

**Resources**

- 1 - CAP-697 Flight Planning Manual, Civil Aviation Authority, Safety Regulation Group, 2006
- 2 - CAP-694 The UK Flight Planning Guide, Civil Aviation Authority, Directorate of Airspace Policy