Course Syllabus

Code - Course Title	**HİŞ201U - Basic Aircraft Theory and Principles of Flight**
Course Type	III. SEMESTER
Laboratory + Practice	0+0
ECTS	**7.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	ASSOC. PROF. DR. DİLEK TURAN

Mode of Delivery	Distance Education
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	-
Recommended Resources	-
Work Placement	-

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Basic Concept and Principles of Flight	
Week - 2		History of aircraft, Introduction to flight	
Week - 3		Newton’s laws and Bernoulli’s principle	
Week - 4		Forces acting on aircraft	
Week - 5		Aircraft Components: Aircraft structure	
Week - 6		Midterm Exam	
Week - 7		Major structural stresses, Aircraft loads, Numbering systems	
Week - 8		Aircraft Components: Fuselage and wings	
Week - 9		Aircraft Landing Gear Systems	
Week - 10		Aircraft Engine	
Week - 11		High Lift Devices: Flaps and slats	
Week - 12		Aircraft Balance, Stability and Flight Control	
Week - 13		High Speed Flight	
Week - 14		Final Exam	

Learning Outcomes

#	Learning Outcome
1	Will be able to explain fundamentals of aerodynamic and aerostatic
2	Will be able to explain place on aircraft, properties and purpose of wings and flaps
3	Will be able to explain structure and types of aircraft
4	Will be able to explain structure and functions of landing gear
5	Will be able to explain properties of high speed flight, sound speed and mach number
6	Will be able to explain operating principles of aircraft engines

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	30
Final Exam	1	70
	Sum (%)	**100**