

<b>I. GENERAL DATA ON SUBJECT COURSE</b>	
CODE AND NAME OF SUBJECT (in Estonian and English)	ATS.061 Õhusõidukid/ <i>Aircraft</i>
FORM OF STUDIES	daytime studies
CURRICULUM, SPECIALITY AND MODULE WHERE THE SUBJECT BELONGS TO	Curriculum: Air Traffic Services (2282), Module of Basic Speciality Studies, Year 3
SCOPE OF SUBJECT	3,0 ECTS
FORM OF CONTROL	Non - differentiative
WORKLOAD AND FORMAT OF STUDIES	Independent work with E-aid – 31 h, class studies – 14h
LANGUAGE OF INSTRUCTION	Estonian, English
ADDITIONAL INFORMATION (prerequisite subject courses, restrictions on participating in the course, etc)	Prerequisite course of Aerodynamics recommended
LECTURER	Jaan Susi, Jaan Annus

<b>II. THE GOAL, LEARNING OUTCOMES AND DESCRIPTION OF SUBJECT COURSE</b>	
GOAL	The goal of the subject is to explain the basic principles of the theory of flight and aircraft characteristics, their influence on ATC operations.
LEARNING OUTCOMES	The student having covered the subject course: Knows the relations between units of measurement used in aviation, describes various types of aircraft and their performance, recognizes the basic forces acting on an aircraft, describes the categorization of aircraft by type, approach speed, wake turbulence and noise, describes and analyses the principles of work of different aircraft engines and aircraft instrumentation.

<b>III. GRADING SYSTEM AND CRITERIA</b>	
PREREQUISITES TO BE ALLOWED TO TAKE EXAMINATION/PRELIMINARY EXAMINATION	All of the students, having passed the course, have the right to pass examination. The fact of passing the course is confirmed by passing self-assessment tests in Moodle.
FORMATION OF EXAMINATION MARK/OF PRELIMINARY EXAM	The final result will be determined by the final test to be passed in Moodle.
OPPORTUNITIES FOR SETTLING ARREARS	The students can retake the exam once before the end of semester.
<b>GRADING SYSTEM</b>	<b>RESPECTIVE MARKING CRITERIA</b>
1. Self-testing	Obligatory but not taken into account in final testing
2. Written test	Final written test should be passed with 75% efficiency.

<b>IV. TIMETABLE AND LIST OF TOPICS</b>		
<b>TOPICS AND MATERIALS</b>	<b>LEVEL</b>	<b>VOLUME</b>
1. ACFTB 1.2 Introduction.		1h class
2. ACFTB 1.1 Units of measurement	3	4h
3. ACFTB 3.1; ACFTB 4.1 Types of aircraft	2	6h
4. ACFTB 2.1; ACFTB 2.2; ACFTB 2.3 Principles of flight	2	6h
5. Seminar for topics 1 and 2		2h class
6. ACFTB 3.2; ACFTB 3.3 Wake turbulence and approach categories	1	4h
7. ACFTB 3.4 Environmental categories	1	4h
8. ACFTB 4.2 Data for most commonly used aircraft	2	4h
9. Seminar for topics 3 and 4.		2h class
10. ACFTB 5.1 Piston engines	2	5h
11. ACFTB 5.2 Jet engines	2	5h
12. ACFTB 5.3 Turboprop engines	2	4h
13. ACFTB 5.4 Aviation fuels	1	2h
14. ACFTB 6.1; ACFTB 6.2; ACFTB 6.3 Aircraft instruments	2	5h
15. ACFTB 6.4 Aircraft systems	2	5h
16. Seminar for topics 5 and 6.		2h class
17. ACFTB 7.1; ACFTB 7.2; ACFTB 7.3; ACFTB 7.4; ACFTB 7.5; ACFTB 7.6; ACFTB 7.7 Factors affecting aircraft performance: during take-off, climb, cruise, descent and initial approach, final approach, landing; economic and environmental factors	2	6h class
18. Examination test		2h class

<b>V. LEARNING MATERIALS</b>
<u>Compulsory materials::</u> 1) Aircraft – E-aid , Moodle
<u>Additional materials recommended:</u> 1) ATPL ground training series