

## SYLLABUS

<b>I. GENERAL DATA ON SUBJECT COURSE</b>	
CODE AND NAME OF SUBJECT (in Estonian and English)	AM.027 Lennunduse raadioside <i>Aeronautical Radio Communication</i>
ACADEMIC YEAR, TERM	2020/2021 autumn semester, daytime studies
CURRICULUM, SPECIALITY AND MODULE WHERE THE SUBJECT BELONGS TO	Aviation Management (2284), in module of Speciality Studies and Aircraft Engineering (118817), in module of Speciality Subjects, in Erasmus module
VOLUME OF SUBJECT (ECTS)	2,0 ECTS
FORM OF CONTROL	differentiated
WORKLOAD AND FORMAT OF STUDIES	52 hrs, including contact hours: 26 and independent work: 26 hrs
LANGUAGE OF INSTRUCTION	English
ADDITIONAL INFORMATION (PREREQUISITE SUBJECT COURSES, RESTRICTIONS)	-
LECTURER	Eerik Aas

<b>II. GOAL OF SUBJECT, LEARNING OUTCOMES AND SHORT DESCRIPTION OF THE COURSE</b>	
GOAL OF SUBJECT COURSE	Acquiring basic aeronautical radio communication knowledge for further utilization of the radio communication
LEARNING OUTCOMES	The student having passed the subject course: 1) Knows and understands radio communications rules and general procedures; 2) Knows and makes use of radio communications phraseology within the scope enabling to learn and hone the more detailed use of R/T in Rating Training; 3) Understands the radio communications in real working situations.

<b>III. GRADING SYSTEMS AND CRITERIA</b>	
PREREQUISITES TO BE ALLOWED TO TAKE EXAMINATION/PRELIMINARY EXAMINATION	Self-testing: 1) General operational procedures of radio communications; 2) Radio communications at an aerodrome and in its vicinity; 3) Phraseology.
FORMATION OF EXAMINATION MARK/OF PRELIMINARY EXAM	Written test – 100% of the final grade 1. <b>Self-testing:</b> At least 75% of the items are to receive correct answers 2. <b>Written examination:</b> 1) explains concisely the radio communications general rules and procedures; 2) utilizes the phraseology appropriate to the situation; 3) explains what happens in practical use of radio communications.

OPPORTUNITIES FOR SETTLING ARREARS/INSUFFICIENCIES IN ACADEMIC PROGRESS	Exam can be retaken
<b>GRADING SYSTEM</b>	<b>RESPECTIVE MARKING CRITERIA</b>
DIFFERENTIATED ASSESSMENT, THE STUDENTS' ACHIEVEMENT LEVEL OF LEARNING OUTCOMES IS GRADED ACCORDING TO THE FOLLOWING SIX-POINT SCALE	A 91 – 100 % B 81 – 90 % C 71 – 80 % D 61 – 70 % E 51 – 60 % F 0 – 50 %

<b>IV. SCHEDULE AND LIST OF TOPICS</b>			
<b>WEEK OF YEAR</b>	<b>WORK FORMAT</b>	<b>TOPICS</b>	<b>LECTURER</b>
	Lecture	<b>1 Introduction</b> 1.1 General principles of radio communications, the importance of exact and appropriate to the circumstance; 1.2 Radio communications in ensuring aviation safety; 1.3 Prerequisites for ensuring qualitative radio communications; 1.4 Microphone operating techniques.	E. Aas
	Lecture	<b>2. Radio communications general procedures</b> 2.1 Classes of messages; 2.2 Languages in use; 2.3 Alphabet; 2.4 Numbers in radio communications, transmission of radio frequencies; 2.5 Transmission of time; 2.6 Standard words and phrases; 2.7 Reading abbreviations; 2.8 Call signs for ground stations; 2.9 Aircraft call signs, their abbreviation and change; 2.10 Establishment of communications; 2.11 Radio check; 2.12 Content of radio transmitted messages; 2.13 Communication, use of call signs and their role in communication; 2.14 ATC clearances and their read-back; 2.15 Issue of messages under the conditions it is impossible to follow the clearance, issue of a new clearance; 2.16 Confirmation of messages; 2.17 Corrections and read-back; 2.18 Change of radio frequency, leaving the frequency; 2.19 Scheduled time of transmissions; 2.20 Radio communications failure; 2.21 Radio communications in emergency and unusual situations; 2.22 Radio communication in the event of unlawful interference with flight.	E. Aas
	Lecture	<b>3. General phraseology</b> 3.1 Conditional clearances; 3.2 Level, changing the level, changing level at a certain time or position; 3.3 VMC and own-separation; 3.4 Position reports; 3.5 Flight plans. Pre-flight plan. Airborne flight plan; 3.6 Meteorological information.	E. Aas
		<b>4. Phraseology at an aerodrome and in its vicinity</b>	

	Lecture	E. Aas
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## **V. LEARNING MATERIALS**

### Compulsory materials:

Lecture notes in e-learning environment

### Additional materials recommended:

- 1) ICAO. Doc 9432. 2006. Manual of Radiotelephony. Third Edition.
- 2) ICAO. Doc 4444. 2007. Air Traffic Management. Fifteenth Edition.
- 3) ICAO. Annex 10. Aeronautical Telecommunications.