

SYLLABUS

I. GENERAL DATA ON SUBJECT COURSE	
CODE AND TITLE OF SUBJECT	SD.053 Aeronautical Radio Communication
FORM OF STUDIES	daytime study
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
VOLUME OF SUBJECT (ECTS)	2.0 ECTS
FORM OF ASSESSMENT	differentiated
WORKLOAD AND FORMAT OF STUDIES	contact hours: 26 hrs, independent work: 26 hrs, practical training: 0
LANGUAGE OF INSTRUCTION	English
ADDITIONAL INFORMATION (PREREQUISITE SUBJECTS)	-
LECTURER	Erik Aas
II. GOAL OF SUBJECT COURSE AND LEARNING OUTCOMES OF COURSE	
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.
III. GRADING SYSTEMS AND CRITERIA	
PREREQUISITES TO PASS EXAM/ 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 FINAL RESULT OF EXAM/ PRELIMINARY EXAM	Written test – 100% of the final grade 1. Self-testing: At least 75% of the items are to receive correct answers 2. Written examination: 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
IV. TIMETABLE AND LIST OF TOPICS	
<p>1 Introduction</p> <p>1.1 General principles of radio communications, the importance of exact and appropriate to the circumstance</p> <p>1.2 radio communications in ensuring aviation safety</p> <p>1.3 Prerequisites for ensuring qualitative radio communications</p> <p>1.4 Microphone operating techniques</p> <p>2 Radio communications general procedures</p> <p>2.1 Classes of messages</p> <p>2.2 Languages in use</p> <p>2.3 Alphabet</p> <p>2.4 Numbers in radio communications, transmission of radio frequencies</p> <p>2.5 Transmission of time</p> <p>2.6 Standard words and phrases</p> <p>2.7 Reading abbreviations</p> <p>2.8 Call signs for ground stations</p> <p>2.9 Aircraft call signs, their abbreviation and change</p> <p>2.10 Establishment of communications</p> <p>2.11 Radio check</p> <p>2.12 Content of radio transmitted messages</p> <p>2.13 Communication, use of call signs and their role in communication</p> <p>2.14 ATC clearances and their read-back</p> <p>2.15 Issue of messages under the conditions it is impossible to follow the clearance, issue of a new clearance</p> <p>2.16 Confirmation of messages</p> <p>2.17 Corrections and read-back</p> <p>2.18 Change of radio frequency, leaving the frequency</p> <p>2.19 Scheduled time of transmissions</p> <p>2.20 Radio communications failure</p> <p>2.21 Radio communications in emergency and unusual situations</p> <p>2.22 Radio communication in the event of unlawful interference with flight</p> <p>3 General phraseology</p> <p>3.1 Conditional clearances</p> <p>3.2 Level, changing the level, changing level at a certain time or position</p> <p>3.3 VMC and own-separation</p> <p>3.4 Position reports</p> <p>3.5 Flight plans. Pre-flight plan. Airborne flight plan.</p> <p>3.6 Meteorological information</p> <p>4 Phraseology at an aerodrome and in its vicinity</p>	
V. STUDY MATERIALS	
<p><u>Obligatory materials:</u></p> <p>Lecture notes in e-learning environment</p>	

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*.

