



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Communication 2 [S1Lot2-PSPL>Łączn2]

Course

Field of study

Aviation

Year/Semester

2/3

Area of study (specialization)

Aircraft Piloting

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

Number of hours

Lecture

15

Laboratory classes

0

Other

0

Tutorials

15

Projects/seminars

0

Number of credit points

1,00

Coordinators

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Lecturers

Prerequisites

A student starting this subject should have basic knowledge of the basics of computer science and communication systems. They should also have the ability to apply the scientific method to problem solving and be willing to work as part of a team.

Course objective

To familiarize the student with the technical capabilities of communication equipment and systems and the applicable regulations regarding work using technical means of communication.

Course-related learning outcomes

Knowledge:

1. has detailed knowledge related to selected issues in the field of manned and unmanned aerial vehicles, in the field of on-board equipment, control systems, communication and registration systems, automation of individual systems
2. has basic knowledge of the vocabulary used in English to describe mathematical operations and the data presented in the diagram / graph. Has knowledge of formulating a text in English explaining / describing a selected specialist issue, airport safety procedures related to the presence of animals,

aircraft control surfaces, aircraft maneuvers

3. has a basic knowledge of the mechanisms and laws governing human behavior and psyche

Skills:

1. is able to properly use information and communication techniques, applicable at various stages of the implementation of aviation projects

Social competences:

1. correctly identifies and resolves dilemmas related to the profession of an aerospace engineer

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture:

- assessment of knowledge and skills demonstrated in the written test - 1.5 hours Exercises:
- knowledge acquired during the exercises is verified by two 45-minute tests conducted during the 3rd and 7th classes

Programme content

Lecture:

- Concepts and meaning of terminology used - Key definitions and terminology used in aeronautical radiotelephony communications and air traffic control.
- Abbreviations used in air traffic control - Most frequently used ICAO abbreviations and their meaning in pilot-controller communications.
- Q code abbreviations most frequently used in air-ground radiotelephony communications - Application of Q codes in flight operations, e.g. QNH, QFE, QNE.
- Message categories - Types of messages in aviation, including operational, meteorological, emergency and control messages.
- Radiotelephony call signs of aeronautical stations and aircraft and the use of abbreviated call signs - Principles for issuing and using full and abbreviated call signs in aeronautical communications.
- Transfer of communications - Procedures for changing frequencies and transferring communications between different air traffic control units.
- Communication check procedures (readability scale), radiotelephony contact establishment - Signal quality assessment and methods for checking transmission readability on a scale of 1 to 5.
- Weather information terms (IFR) - Key terms related to instrument flight rules (IFR), including weather reporting and operating minima.

Exercises:

Sending letters, numbers (giving flight levels), time. Transmitting technique. Standard words and phrases (with related R/T phraseology). Changes in flight levels and reporting them. Actions to be taken in the event of a communication failure. PAN signal - PAN MEDICAL (request for medical assistance). Morse code.

Course topics

Concepts and meaning of terminology used. Abbreviations used in air traffic control. Q code abbreviations most commonly used in air-ground radiotelephony communications. Categories of messages. Radiotelephony call signs of aeronautical stations and aircraft and the use of abbreviated call signs. Transfer of communications. Procedures for checking communications (readability scale), establishing radiotelephony communications. Weather information terms (IFR).

Teaching methods

1. Lecture: multimedia presentation, illustrated with examples given on the board. 2. Exercises: examples given on the board and performing tasks given by the instructor - practical exercises.

Bibliography

Basic:

"Communication" (JAR Ref 090). JAA ATP1 Training. Germany 2004 2., „Procedury służb Żeglugi powietrznej Zarządzenie Ruchem Lotniczym (PL-4444)"

Additional:

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Breakdown of average student's workload

	Hours	ECTS
Total workload	40	1,00
Classes requiring direct contact with the teacher	30	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	0,50