



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

VFR Communication 1

### Course

Field of study

Aerospace Engineering

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

### Number of hours

Lecture

15

Tutorials

Laboratory classes

Projects/seminars

Other (e.g. online)

### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

mgr pil. Tomasz Zdziarski

Wydział Inżynierii Środowiska i Energetyki

email: tomasz.zdziarski@put.poznan.pl

tel. +48 500 123 362

Responsible for the course/lecturer:

dr hab. inż. Agnieszka Wróblewska, prof.PP

Wydział Inżynierii Środowiska i Energetyki

email: agnieszka.wroblewska@put.poznan.pl

tel. 61 665 2201

### Prerequisites

The student starting this subject should have a basic knowledge of the basics of computer science and



communication systems. He should also have the ability to apply the scientific method in solving problems and be ready to cooperate within a team.

### Course objective

Familiarizing the student with the technical capabilities of communication equipment and communication systems, and applicable labor regulations for technical means of communication.

### Course-related learning outcomes

#### Knowledge

1. has expanded knowledge of technical vocabulary, in particular specialized terminology used in the fields of science and technology related to aviation engineering
2. has expanded knowledge necessary to understand profile subjects and specialist knowledge about construction, methods of construction, manufacture, operation, aircraft control, safety systems, economic, social and environmental impact in the field of aviation engineering for selected specialties:
  1. Piloting of aircraft
  2. Aero engines and airframes.
3. has ordered, theoretically founded general knowledge covering key issues in the field of on-board systems, as well as on-board and ground electronic communication systems.

#### Skills

1. knows how to use a language to a degree enabling understanding of technical texts in the field of aviation (knowledge of technical terminology).
2. can obtain information from literature, the Internet, databases and other sources. Is able to integrate obtained information, interpret and draw conclusions from them.
3. can analyze objects and technical solutions, is able to search in the catalogs and on the manufacturers' websites ready components of machines and devices, including means of transport and storage, assess their suitability for use in own technical and organizational projects.

#### Social competences

1. is aware of the importance of maintaining the principles of professional ethics.
2. is aware of the importance and understands the non-technical aspects and effects of engineering activities, including its impact on the environment, and the associated responsibility for the decisions taken.
3. Understands the need for critical assessment of knowledge and continuous learning.



### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture:

- assessment of knowledge and skills demonstrated on the written test - 1.5 hour

### Programme content

Lecture:

Meanings and significance of associated terms. Air traffic services abbreviations, Q-code groups. Categories of messages, transmission of letters, numbers, time. Transmission technique, standard words and phrases. Radiotelephony call signs for aeronautical stations and aircraft. Test procedures including readability scale. Relevant weather information terms. Communication failure, distress and urgency procedures.

### Teaching methods

1. Lecture: multimedia presentation, illustrated with examples given on the board.

### Bibliography

Basic

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

Additional

### Breakdown of average student's workload

	Hours	ECTS
Total workload	37	1,0
Classes requiring direct contact with the teacher	16	0,4
Student's own work (literature studies, preparation for written tests ) <sup>1</sup>	21	0,6

<sup>1</sup> delete or add other activities as appropriate