



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Elements of rescue and aviation safety

### Course

Field of study

Aerospace Engineering

Area of study (specialization)

Unmanned Aerial Vehicles

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

15

Projects/seminars

15

### Number of credit points

3

### Lecturers

Responsible for the course/lecturer:

mgr inż. Marcin Berlik

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Wydział Inżynierii Zarządzania

Responsible for the course/lecturer:

### Prerequisites

Knowledge:

Basic knowledge in the field of aviation.

Skills:

Can think analytically and associate cause-and-effect relationships in the field of aircraft.

Social competence:

Can work in a group and understands the basics of security.



### Course objective

The aim of the course is to familiarize the student with the issues of rescue and aviation safety in terms of organization

### Course-related learning outcomes

#### Knowledge

1. has basic knowledge of aircraft movement in the air and air traffic services
2. has a structured, theoretically founded general knowledge covering key issues in the field of flight safety and risk assessment

#### Skills

1. is able to name and describe the security policy and objectives, knows the requirements in the field of security management.
2. He can identify the differences between the National Program for Civil Aviation Safety and the National Safety Plan.
3. Is able to identify the sources of threats in various areas of aircraft operation, formulate the related threats, assess the risk of threats using appropriate methods and propose ways to ensure safety.

#### Social competences

1. Is ready to critically evaluate the knowledge and content received, recognize the importance of knowledge in solving cognitive and practical problems, and consult experts in case of difficulties in solving the problem on its own.
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 related responsibility for decisions made.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: knowledge and skills assessment in a written or oral exam based on the explanation of selected issues

Exercise: Final test

Project: evaluation of performed tasks

### Programme content

1. Acquainting with the basic concepts related to rescue and showing the development of air rescue
2. Discussion of legal aspects related to rescue and safety of air operations
3. Structure of rescue services
4. Characteristics of technical facilities used by rescue services



5. Overview of issues related to aviation safety management

**Teaching methods**

Informative (conventional) lecture (providing information in a structured way) - may be of a course (introductory) or monographic (specialist) character

The exercise method (subject exercises, practice exercises) - in the form of auditorium exercises (application of the acquired knowledge in practice - may take various forms: solving cognitive tasks or training psychomotor skills; transforming a conscious activity into a habit through repetition)

Project method

**Bibliography**

Basic

1. Bezpieczeństwo operacji lotniczych - Urząd Lotnictwa Cywilnego.

Additional

**Breakdown of average student's workload**

	Hours	ECTS
Total workload	85	3,0
Classes requiring direct contact with the teacher	55	2,0
Student's own work (literature studies, preparation for tutorials, preparation for tests, project preparation) <sup>1</sup>	30	1,0

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