



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Safety Management I

### Course

Field of study

Aerospace Engineering

Area of study (specialization)

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

practical

Course offered in

Polish

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

15

Other (e.g. online)

0

Tutorials

15

Projects/seminars

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

Piotr Czech

email: piotr.czech@pansa.pl

Polska Agencja Żeglugi Powietrznej

ul. Wieżowa 8, 02-147 Warszawa

Responsible for the course/lecturer:

dr inż. Mariusz KRZYŻANOWSKI

email: mariusz.krzyzanowski@pansa.pl

tel. 22 5745022

Polska Agencja Żeglugi Powietrznej

ul. Wieżowa 8, 02-147 Warszawa

### Prerequisites

### Course objective

### Course-related learning outcomes

Knowledge

1. Has a structured, theoretically founded general knowledge covering key issues in the field of flight safety and risk assessment [K2A\_W15]



2. Has detailed and structured knowledge in the field of using air technical facilities for the transport of passengers, goods, dangerous goods, as well as in the management of air operations and airports [K2A\_W16]

3. Has structured knowledge and is fluent in the concepts of safety management, knows the standards in force on the territory of Poland in the field of civil aviation safety management, and safety programs at the global, European and national level [K2A\_W20]

4. Has detailed and structured knowledge of how to deal with risk in unmanned operations with varying degrees of operator control [K2A\_W23]

#### Skills

1. He can identify the differences between the National Program for Civil Aviation Safety and the National Safety Plan [K2A\_U12]

2. 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 [K2A\_U14]

#### Social competences

1. Is able to properly define priorities for the implementation of a task set by himself or others [K2A\_K05]

2. Correctly identifies and resolves dilemmas related to the profession [K2A\_K06]

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

#### Programme content

#### 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)

Laboratory method



## Bibliography

### Basic

1. EASA ATPL Training, Operational Procedures, Jeppesen Boeing Company GmbH, Germany 2016
2. Zagdański Z., Stany awaryjne statków powietrznych, wyd. ITWL, Warszawa 1995
3. Szczepański C., Symulatory lotu, Wyd. Politechniki Warszawskiej, 1990
4. Zagdański Z.: Stany awaryjne statków powietrznych, Wyd. ITWL, Warszawa, 1995
5. Lewitowicz J., Kustroń K., Podstawy eksploatacji statków powietrznych, Własności i właściwości eksploatacyjne statku powietrznego, Wyd. ITWL, Warszawa, 2003
6. Lewitowicz J. (red.) Podstawy eksploatacji statków powietrznych, Badania eksploatacyjne statków powietrznych, Wyd. ITWL, Warszawa,
7. Lewitowicz J., Kustroń K., Podstawy eksploatacji statków powietrznych, Własności i właściwości eksploatacyjne statku powietrznego, Wyd. ITWL, Warszawa, 2003

### Additional

1. Leski J., Symulacja i symulatory, Wyd. MON, Warszawa, 1971 Podręcznik zarządzania bezpieczeństwem, Doc 9859 ICAO Organizacja Międzynarodowego Lotnictwa Cywilnego, wydanie pierwsze 2006
2. Makarowski R., Smolicz T., Czynniki ludzkie w operacjach lotniczych, ADRIANA AVIATION, Kosowizna, 2012
3. Makarowski R., Ryzyko i stres w lotnictwie sportowym, Wyd. Difin, Warszawa, 2010
4. Bartnik R., Grenda B., Galej P., Symulatory lotu oraz symulatory kontroli ruchu lotniczego w szkoleniu lotniczym, Wyd. Akademii Obrony Narodowej, Warszawa, 2014.

## Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	45	1,5
Student's own work (literature studies, preparation for laboratory classes and tutorials, preparation for tests and exam) <sup>1</sup>	15	0,5

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