



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

ATM systems

### 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

0

Projects/seminars

0

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

Krzysztof Banaszek

email: krzysztof.banaszek@pansa.pl

Polska Agencja Żeglugi Powietrznej

ul. Wieżowa 8 02-147 Warszawa

Responsible for the course/lecturer:

Artur Kinowski

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Polska Agencja Żeglugi Powietrznej

ul. Wieżowa 8 02-147 Warszawa

### Prerequisites

### Course objective

### Course-related learning outcomes

Knowledge

1. Has basic knowledge of aircraft movement in the air and air traffic services [K2A\_W10]
2. Has ordered, theoretically founded specialist knowledge in the field of on-board equipment: as well as on-board and terrestrial electronic communication systems, remote sensing systems, observation systems, satellite navigation systems [K2A\_W11]



3. 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]

#### Skills

1. Can use formulas and tables, technical and economic calculations with the use of a spreadsheet, programming tools of his own authorship, specialized software [K2A\_U05]
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 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 [K2A\_K02]
2. Is able to interact and work in a group, assuming various roles in it [K2A\_K04]
3. Is able to properly define priorities for the implementation of a task set by himself or others [K2A\_K05]

#### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: written exam (test)

#### Programme content

#### Teaching methods

Informative (conventional) lecture (transfer of information in a systematic way) - can be (propedeutical) or monographic (specialist)

Seminar lecture ("external dialogue" of the lecturer with the student; students participate in solving the problem)

#### Bibliography

Basic



Additional

1. Zarządzanie ruchem lotniczym w przestrzeni powietrznej RP, WLOP, Warszawa 2002.
2. Ustawa Prawo Lotnicze
3. Rucińska D., Ruciński A., Tłoczyński D., Transport lotniczy. Ekonomia i organizacja, Gdańsk 2012

**Breakdown of average student's workload**

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	35	1,5
Student's own work (literature studies, preparation for test) <sup>1</sup>	15	0,5

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