



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Aviation law and air traffic control procedures 2 [S1Lot2-PSPL>PLoPKRL2]

### 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

0

Projects/seminars

0

### Number of credit points

1,00

### Coordinators

Klaudiusz Dybowski

### Lecturers

### Prerequisites

A student starting this subject should have basic knowledge of aviation law, intellectual property protection. They should also have the ability to apply the scientific method to solve problems and be willing to work as part of a team. Course objective3 To familiarize the student with the activities of aviation organizations, regulations on the licensing of aviation personnel and the air traffic management system.

### Course objective

none

### Course-related learning outcomes

Knowledge:

1. has an ordered, theoretically founded general knowledge of technology and various means of air transport
2. has an ordered, theoretically founded general knowledge of technology and various means of air transport
3. has a basic knowledge of the mechanisms and laws governing human behavior and psyche

Skills:

1. knows how to analyze the strategies of enterprises and interpret their activities and can use in practice the basic
2. is able to organize, cooperate and work in a group, assuming various roles in it, and is able to properly define priorities for the implementation of a specific task

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;

### Programme content

semester 3:

Air Traffic Services (ATS) and Air Traffic Management (ATM) - Structure and functions of ATS, division of airspace, organization of air traffic management.

Airspace - Classification of airspace according to ICAO, controlled and uncontrolled airspace, ATC sectors. Air Traffic Control Services (ATC) - Types of control (area, approach, tower control), tasks and procedures for

ensuring separation and safety of flights.

Flight Information Service (FIS) - Scope and importance of FIS in providing meteorological, operational and navigational information to aircraft crews.

Alert Service - Role and procedures for informing emergency services about aircraft in distress and monitoring emergency situations.

Rules specifying required navigation parameters (RNP) and ATS route designations - RNP navigation accuracy standards, structure of air routes and their designations in flight documentation.

ICAO Doc 4444 - Air Traffic Management - Key ICAO guidelines for the organisation and regulation of the ATM system, ATC procedures and operational safety.

ATS system performance and air traffic flow management (ATFM) - Optimisation of air traffic flow, methods of managing flight slots, minimisation of delays.

General provisions for air traffic services (ATS) - Regulations and requirements for ATS organisations, responsibilities of air traffic controllers, operational procedures.

ATC clearances - Definition and principles of issuing ATC clearances, procedures related to air traffic, pilot-controller communication.

### Course topics

Air Traffic Services (ATS) and Air Traffic Management (ATM): Airspace, Air Traffic Control Services (ATC), Flight

Information Service (FIS), Alerting Service. Rules specifying Required Navigation Parameters (RNP) and Air Traffic

Services (ATS) Route Designators. ICAO Doc 4444 - Air Traffic Management. ATS System Performance and Air

Traffic Flow Management (ATFM). General Provisions for Air Traffic Services (ATS). ATC Clearances.

### Teaching methods

1. Lecture: multimedia presentation.

### Bibliography

Basic:

1. Ustawa z dnia 3 lipca 2002 r. - Prawo lotnicze (Dz. U. z 2013 r. poz. 1393 oraz z 2014 r. poz. 768)
2. Konwencja o międzynarodowym lotnictwie cywilnym, podpisana w Chicago dnia 7 grudnia 1944 r. - Konwencja chicagowska (Dz. U z 1959 r. Nr 35, poz. 212, z późn. zm) wraz z załącznikami

3. Doc 4444 - Zarządzanie ruchem lotniczym
4. Doc 7030/4 - Regionalne Procedury Uzupełniające dla Regionu Europy
5. Doc 8168 - Operacje statków powietrznych

Additional:

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#### Breakdown of average student's workload

	Hours	ECTS
Total workload	26	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	11	0,50