COURSE DESCRIPTION CARD - SYLLABUS

Course name
ATM systems [S2LiK2P>SATM]

Course

Field of study
Aerospace Engineering

Year/Semester
1/2

Area of study (specialization)
–

Profile of study
practical

Level of study
second-cycle

Course offered in
Polish

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
15

Laboratory classes
15

Other
0

Tutorials
0

Projects/seminars
0

Number of credit points

2,00

Coordinators

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Lecturers

Prerequisites

Basic knowledge of the airspace structure and navigation systems used.

Course objective

To familiarize the student with conventional and unconventional ATM systems

Course-related learning outcomes

Knowledge:
1. Has extended knowledge necessary to understand the profile subjects and specialist knowledge about air traffic management, safety systems, impact on the economy, society and the environment in the field of aviation
2. Has basic knowledge of aircraft movement in the air and air traffic services

Skills:
1. Understands the need for lifelong learning, can inspire and organize the learning process of other people

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

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: written exam (test)
Laboratory: Assessment based on prepared reports

Programme content

1. Airspace Management (ASM)
2. Air Traffic Flow and Capacity Management (ATFCM)
3. Providing, appropriate to the nature, intensity and conditions of air traffic, appropriate air traffic services (ATS)
4. Conventional and unconventional (satellite) landing approach procedures
5. Aerial inspection of aircraft ground equipment and instrument landing approach procedures
6. Navigation, communication and surveillance equipment

Course topics

none

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)
Laboratory classes

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. Ekonomika i organizacja, Gdańsk 2012

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	20	1,00