POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name

Airports safety

Course

Field of study	Year/Semester
Aviation	2/3
Area of study (specialization)	Profile of study
Air Transport Safety	general academic
Level of study	Course offered in
First-cycle studies	Polish
Form of study	Requirements
full-time	compulsory

Number of hours

Lecture	Laboratory classes	Other (e.g. online)
15	0	0
Tutorials	Projects/seminars	
0	15	

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

mgr inż. Marcin Sypniewski

marcin.sypniewski@put.poznan.pl

Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

Knowledge: Basic knowledge of aviation

Skills: Can analyze the presented data as well as legal regulations and requirements. Can implement data in new environments

Social competences: Prepared for independent work with a presentation of its effects

Course objective

Getting to know the safety rules in airport management

Course-related learning outcomes

Knowledge

has detailed knowledge related to selected issues in the field of manned and unmanned aircraft

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construction, in the field of on-board equipment, control systems, communication and recording systems, automation of individual systems, has basic knowledge of flight simulation training devices and simulation methods used to solve air transport issues

the student has knowledge of aviation safety and management. The student knows the concept of the human factor and methods of assessing human reliability, has detailed knowledge related to selected issues in the field of human capabilities and limitations during aircraft operation in flight, its impact on health and the ability to perform air operations, as well as the possibility of improving physical condition

Skills

is able to obtain information from various sources, including literature and databases, both in Polish and in English, integrate them properly, interpret them and make a critical evaluation, draw conclusions and exhaustively justify the opinions they formulate

Social competences

understands that in technology, knowledge and skills very quickly become obsolete

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 - written test, exercises - final test,

Project - presentation of the completed project in front of the group

Programme content

Lecture: discussion of key issues related to airport security, including in particular:

1. Airport infrastructure (analyzed from the point of view of safety management)

2. Aviation law - regulations imposed on airports related to ensuring passenger safety (the so-called Security)

3. Airport safety management (the so-called Safety) - the role and tasks of the Safety Manager at the airport

4. Airport services and security - Airport Fire Brigade, Ground Air Traffic Controller, Airport Duty Officer, Border Guard, Airport Security Service, Police, handling services - the role of units in ensuring airport security

5. Risk risk management at the airport

6. Airport security control - responsibility, tasks and technology supporting security

7. Luggage and cargo as particularly sensitive elements of the security system - discussion of procedures and handling

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Project: Students under the supervision of the tutor work out a selected issue related to airport security management, e.g. a security audit plan for a selected airport, a proposal for planning security procedures, developing a game-related risk management plan or other selected by students - for a real or model airport

Teaching methods

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

Project method (individual or team implementation of a large, multi-stage cognitive or practical task, the effect of which is the creation of a work)

Bibliography

Basic

1. Flight Planning & Monitoring - EASA | Aviationexam, wyd. Jeppsen

2. Huderek-Glapska S., Zarządzanie rozwojem portów lotniczych

3. Osiągi, wyważenie i planowanie lotu szkolenie EASA, wyd. Pileus

4. Szutowski L., Poradnik pilota samolotowego, Poznań 2007

5. Compa T., Zarządzanie przestrzenią powietrzną, AON, Warszawa 2003

6. Domicz J., Szutowski L., Podręcznik pilota samolotowego, Poznań 2008

7. Wyzwania i zagrożenia bezpieczeństwa i obronności RP w XXI wieku w wymiarze społecznym i technologiczno-środowiskowym - praca zbiorowa pod red. Trejnis Z., Kościelecki L., Oficyna Wydawnicza ASPRA-JR

Additional

1. Zarządzanie ruchem lotniczym w przestrzeni powietrznej RP, WLOP, Warszawa 2002.

2. Ustawa Prawo Lotnicze.

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	30	1,5
Student's own work (literature studies, preparation for classes, preparation for tests,) [1]	70	2,5

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[1] delete or add other activities as appropriate