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			
Airspace management			
Course			
Field of study Aviation		Year/Semester 3/5 Profile of study	
Air Traffic Management	general academic		
Level of study		Course offered in	
First-cycle studies	Polish Requirements		
Form of study			
full-time		compulsory	
Number of hours			
Lecture	Laboratory classes	Other (e.g. online)	
30	0	0	
Tutorials	Projects/seminars		
0	15		
Number of credit points			
4			
Lecturers			
Responsible for the course/lecturer: Respo		nsible for the course/lecturer:	
mgr inż. Marcin Sypniewski			
marcin.sypniewski@put.pozna	n.pl		
Wydział Inżynierii Lądowej i Tr	ansportu		
ul. Piotrowo 3, 60-965 Poznań			
Prerequisites			
Knowledge: Basic knowledge c	faviation		
Skills: Can analyze presented d	ata as well as regulations and leg	al requirements. He can implement data	
in new environments			
Social competences: Prepared	for independent work with the p	resentation of its effects	
Course objective			
Familiarization with issues rela	ted to airspace management		

Course-related learning outcomes

Knowledge

knows the basic concepts of economics, relating in particular to air transport, has basic knowledge of



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managing and running a business and knows the general principles of creating and developing forms of individual entrepreneurship, especially in the aspect of aviation companies

has the ability to self-study with the use of modern teaching tools, such as remote lectures, websites and databases, teaching programs, e-books

has basic knowledge of aviation law, organizations operating in civil aviation and knows the basic principles of state aviation functioning, has basic knowledge of key issues in the functioning of civil aviation

Skills

can, when formulating and solving tasks related to civil aviation, apply appropriately selected methods, including analytical, simulation or experimental methods

can see legal aspects in the process of formulating and solving tasks in air transport, in particular, use the aspects of European and national aviation law regulations

can analyze the strategies of enterprises and interpret their activities, and can use in practice the basic tools of strategic analysis

Social competences

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

is aware of the importance of knowledge in solving engineering problems and knows examples and understands the causes of faulty engineering projects that have led to serious financial and social losses, or to a serious loss of health and even life

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows: Lecture - written test, project - presentation of the completed project on the forum of the group

Programme content

1. International Civil Aviation Organization ICAO and other aviation organizations and institutions (Eurocontrol, EASA, PANSA, Civil Aviation Authority). ICAO conventions and EU air navigation regulations. Historical determinants of aviation law and the structure of its functioning.

2. Airspace management - FUA, AFUA, FRA.

- 3. ASM-1 : Strategic Airspace Management
- 4. ASM-2: Pre-tactical Airspace Management (AUP)
- 5. ASM-3: Tactical Airspace Management

6. Air traffic management systems in Poland, Europe and the world. Formal and legal solutions and technical and functional implementations.



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7. Elements and structures of airspace - ways of booking and rules for using individual structures

8. Military-civil cooperation in airspace management

9. FIR EPWW airspace management principles 10. The role and tasks of PANSA and other ANSPs in airspace management

Teaching methods

Information lecture (conventional) (transmission of information in a systematic way) - can be of a course (propedeutic) or monographic (specialist) nature

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. Piotr Kozłowski, Sumeer Chakuu, Michał Nędza: Podstawy transportu lotniczego, 2012

2. Spyra Z., Witczak O.: Czynniki wpływające na wizerunek portów lotniczych, 2017

3. Pijet-Migoń Edyta: Zmiany rynku lotniczych przewozów pasażerskich w Polsce po akcesji do Unii Europejskiej, 2012

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	47	2,0
Student's own work (literature studies, preparation for classes, preparation for tests,) 1	53	2,0

¹ delete or add other activities as appropriate