



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Air transport

Course

Field of study

Aviation

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

2/4

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

Number of hours

Lecture

30

Laboratory classes

0

Other (e.g. online)

0

Tutorials

15

Projects/seminars

15

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

dr inż. Anna Kobaszyńska-Twardowska

anna.kobaszynska-twardowska@put.poznan.pl

Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

mgr inż. Monika Wantuła

monika.wantula@put.poznan.pl

Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 3, 60-965 Poznań

Prerequisites

The student knows the basics of economics and aviation law. He speaks Polish and English to the extent that he can read the legal acts in the field of aviation in both these languages. He knows the basics of mathematics and statistical analysis.

Course objective

The aim of the course is to familiarize students with the characteristics of air transport and its functioning in Poland and in the world. Clarification of the share of individual subsystems in the aviation industry. Explanation of basic terminology, description of individual elements of the air transport system. Case study related to the organization of air transport.



Course-related learning outcomes

Knowledge

1. has ordered and theoretically founded general knowledge in the field of key technical issues and detailed knowledge of selected issues related to air transport, knows the basic techniques, methods and tools used in the process of solving tasks related to air transport, mainly of an engineering nature
2. has basic knowledge of environmental protection in transport, is aware of the risks associated with environmental protection and understands the specificity of the impact of mainly air transport on the environment as well as social, economic, legal and other non-technical conditions of engineering activities
3. knows the basic concepts of economics, relating in particular to air transport, has basic knowledge of managing and running a business and knows the general principles of creating and developing forms of individual entrepreneurship, especially in the aspect of airlines
4. has the ability to self-study with the use of modern teaching tools, such as remote lectures, websites and databases, teaching programs, e-books
5. 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

1. is able obtain information from various sources, including literature and databases, both in Polish and in English, integrate them properly, interpret and critically evaluate them, draw conclusions and exhaustively justify their opinions
2. is able to properly use information and communication techniques, applicable at various stages of the implementation of aviation projects
3. when formulating and solving tasks related to civil aviation, is able to apply appropriately selected methods, including analytical, simulation or experimental methods
4. is able to 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
5. can analyze the strategies of enterprises and interpret their activities, and can use in practice the basic tools of strategic analysis
6. is able to estimate various types of costs, is able to verify and assess market phenomena, is able to assess the factors of economic growth and the importance of money for its development, is able to decide about economic choices in the field of consumption and production,

Social competences

1. can think and act in an entrepreneurial way, incl. finding commercial applications for the created



system, bearing in mind not only the business benefits, but also the social benefits of the conducted activity

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Written exam (lecture).

Colloquium of exercises in the form of a test.

A short presentation on the completed project.

Programme content

1. Introduction to air transport
2. Airplane (types, manufacturers, fuels)
3. Airlines (strategies, alliances, network of connections)
4. Airports
5. Flight control
6. Legal conditions
7. Aviation and the environment

Teaching methods

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

The exercise method (subject exercises, practice exercises) - in the form of auditorium exercises (application of acquired knowledge in practice - may take various forms: solving cognitive tasks or training psychomotor skills; transforming a conscious activity into a habit through repetition)

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. Rucińska D., Rynek usług transportowych w Polsce, Polskie Wydawnictwo Ekonomiczne, 2015.
2. Polkowska M., Międzynarodowe konwencje i umowy lotnicze oraz ich zastosowanie - zarys problematyki, Wydaw. AON 2004.



3. Koziarski S., Przekształcenia infrastruktury transportowej w Polsce, Wydaw. uniwersytetu opolskiego, 2010

Additional

1. Koziarski M., Polska w systemie transportowym Unii Europejskiej : inwestycje infrastrukturalne, Wydaw. uniwersytetu opolskiego, 2014.

2. Dzedzic T., Obsługa pasażerów lotniczych w erze nowych technologii informatycznych : wyzwania i nowe standardy, Wydawnictwo Grupy Uczelni Vistula, 2016.

Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,0
Classes requiring direct contact with the teacher	85	3,5
Student's own work (literature studies, preparation for classes, preparation for tests,) ¹	40	1,5

¹ delete or add other activities as appropriate