



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Economics of transport

### Course

Field of study

Aviation

Area of study (specialization)

Organization of air traffic

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

3/6

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

15

Projects/seminars

0

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

dr hab. Marek Waligórski, prof. PP

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Faculty of Civil and Transport Engineering

Piotrowo 3 Str., 60-965 Poznań

Responsible for the course/lecturer:

dr inż. Wojciech Karpiuk

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### Prerequisites

**Knowledge:** The student has a basic knowledge of economic phenomena, including factors shaping the development of transport, the specificity of making business decisions and market mechanisms

**Skills:** Student is able to associate and integrate the obtained information, analyze phenomena occurring in the environment, draw conclusions, formulate and justify opinions

**Social competencies:** The student is able to independently search for information in the literature, knows the rules of discussion and group work



### Course objective

Getting to know the issues of transport economics and the specificity of the operation of air transport companies, issues related to their management and shaping the variables of their operation.

### Course-related learning outcomes

#### Knowledge

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

#### Skills

1. can analyze the strategies of enterprises and interpret their activities, and can use in practice the basic tools of strategic analysis
2. 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

11. is able to 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 activity

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lectures: assessment including the activity of students during the course and a written exam of the material being processed

Exercises: the average of grades from tasks performed by students during the course.

### Programme content

lectures:

1. Basic concepts related to the economics of air transport.
2. Analysis of the functioning of air transport in a given service market and its effectiveness.
3. The structure of the airline company and its operating strategy.
4. The influence of the environment on the functioning of TL enterprises. Market models in the transport sector.



5. Strategies of competition and the specificity of the operation of air carriers and producers of means of transport.

6. Economic and financial analysis of aviation companies.

exercises:

1. Costs in transport enterprises: Costs, expenses, inputs - differences. The structure of costs in transport. Own costs of production of transport services - calculations of transport costs and unit costs of transport work. Efficiency of transport service, the mechanism of concessions.
2. Prices of transport services: The structure of the pricing process of the transport service. Factors influencing the prices of transport services. Methods of pricing - contractual and tariff system. Calculation of fees depending on rates and tariffs.
3. Renting of means of transport: Calculation of fees for renting means of transport - branch approach.
4. Purchase of means of transport: Calculating the costs of purchasing means of transport, incl. on the basis of the assumed income of the transport enterprise, average costs of the variables of product production, the interest rate of bank deposits, etc.
5. Depreciation in transport enterprises: Types of depreciation. The concept of depreciation write-offs. Ways of calculating depreciation charges - linear and degressive method. Calculation of the depreciation time of means of transport

### Teaching methods

Informative (conventional) lecture (transfer of information in a systematic way) - can be of course (propedeutical) or monographic (specialist)

The exercise method (subject exercises, exercises) - in the form of auditorium exercises (the use of acquired knowledge in practice - can take a different nature: solving cognitive tasks or training psychomotor skills; transforming 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., Ruciński A., Tłoczyński D., Air transport. Economics and Organization, Publishing House of the University of Gdańsk, 2012.
2. Rucińska D., The market of transport services in Poland, Polskie Wydawnictwo Ekonomiczne, 2015.
3. Biskup K., Bukowski Z., Legal, administrative and economic conditions of aviation activity in Poland, Publishing House of the Kazimierz Wielki University, Bydgoszcz 2014.



4. Ciesielski M., Szudrowicz A., Economics of Transport, Publishing House of the University of Economics in Poznań, Poznań 2011.

Additional

1. Chakuu S., Kozłowski P., Nędza M., Basics of air transport, Academic Consortium, 2012.
2. Biskup K., Bukowski Z., Determinants of aviation activity, Publishing House of the Kazimierz Wielki University, Bydgoszcz 2016.
3. Mendyk E. : Economics and organization of transport. WSzL, Poznań 2002.
4. Koźlak A., Economics of transport. Economic theory and practice. Publishing House of the University of Gdańsk. Gdańsk, 2008

**Breakdown of average student's workload**

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	30	1,5
Student's own work (literature studies, preparation for classes, preparation for tests,) <sup>1</sup>	20	0,5

<sup>1</sup> delete or add other activities as appropriate