



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Economics of transport [S1Lot2-BTL>ET]

Course

Field of study

Aviation

Year/Semester

3/6

Area of study (specialization)

Air Transport Safety

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

Number of hours

Lecture

15

Laboratory classes

0

Other

0

Tutorials

15

Projects/seminars

0

Number of credit points

2,00

Coordinators

dr hab. inż. Marek Waligórski prof. PP
marek.waligorski@put.poznan.pl

Lecturers

Prerequisites

Knowledge: Students have basic knowledge of economic phenomena, including factors shaping the development of transport, decision-making in economics, and market mechanisms. Skills: Students can integrate and analyze information, draw conclusions, and justify opinions. Social Competencies: Students can independently search for information in literature, understand the principles of discussion and teamwork.

Course objective

To familiarize students with the fundamentals of transport economics, the specifics of aviation business operations, and management principles.

Course-related learning outcomes

Knowledge:

Understands basic economic concepts related to air transport, management, and entrepreneurship, particularly in the aviation sector.

Has the ability to self-educate using modern learning tools, such as online lectures, databases, e-books, and educational programs.

Skills:

Can analyze business strategies and apply strategic analysis tools in practice.

Can estimate different types of costs, evaluate market phenomena, assess economic growth factors, and understand the role of money in economic development.

Social competences:

Thinks and acts entrepreneurially, considering both business and social aspects of economic activities.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lectures: Evaluation based on student engagement and a written exam.

Exercises: Average grade from completed tasks during classes.

Programme content

Basic concepts of air transport economics.

Analysis of air transport operations in specific service markets and efficiency evaluation.

Structure and strategy of an aviation enterprise.

Influence of external factors on aviation enterprises; market models in the transport sector.

Competitive strategies and the specifics of airline and aircraft manufacturers' operations.

Economic and financial analysis of aviation enterprises.

Course topics

1. Costs in Transport Enterprises: Differentiation between costs, expenses, and investments; cost structure in transport; cost calculations for air transport services.

2. Pricing of Transport Services: Price-setting processes, influencing factors, pricing models, and fare systems.

3. Rental of Transport Equipment: Calculation of rental fees in different transport sectors.

4. Purchase of Transport Equipment: Cost calculations based on projected enterprise revenue, variable production costs, and interest rates.

5. Depreciation in Transport Enterprises: Types of depreciation, amortization methods (linear and declining balance), and calculation of depreciation periods for transport equipment.

Teaching methods

Lecture: Systematic presentation of information in a structured way, either introductory or specialized.

Exercise Method: Practical application of knowledge through problem-solving and skill training in a classroom setting.

Bibliography

Basic:

Rucińska D., Ruciński A., Tłoczyński D., Air Transport: Economics and Organization, University of Gdańsk Publishing, 2012.

Rucińska D., Transport Services Market in Poland, Polish Economic Publishing, 2015.

Biskup K., Bukowski Z., Legal, Administrative, and Economic Conditions of Aviation Activity in Poland, Kazimierz Wielki University Publishing, Bydgoszcz 2014.

Ciesielski M., Szudrowicz A., Transport Economics, Poznań University of Economics Publishing, 2011.

Additional:

Chakuu S., Kozłowski P., Nędzka M., Fundamentals of Air Transport, Academic Consortium, 2012.

Biskup K., Bukowski Z., Conditions of Aviation Activity, Kazimierz Wielki University Publishing, Bydgoszcz 2016.

Mendyk E., Economics and Organization of Transport, WSzL, Poznań 2002.

Koźlak A., Transport Economics: Theory and Economic Practice, University of Gdańsk Publishing, 2008.

Breakdown of average student's workload

	Hours	ECTS
Total workload	55	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)	25	1,00