

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Transport economics		Code 1010601141010602393
Field of study Aerospace Engineering	Profile of study (general academic, practical) general academic	Year /Semester 2 / 4
Elective path/specialty Safety and Management of Aviation	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 1 Classes: 1 Laboratory: - Project/seminars: -		No. of credits 2
Status of the course in the study program (Basic, major, other) other		(university-wide, from another field) university-wide
Education areas and fields of science and art technical sciences Technical sciences social sciences Economics		ECTS distribution (number and %) 1 50% 1 50% 1 50% 1 50%
Responsible for subject / lecturer: dr inż. Szymon Fierek email: szymon.fierek@put.poznan.pl tel. 616652716 Wydział Inżynierii Transportu ul. Piotrowo 3 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Student has a basic understanding of economic phenomena, including the market mechanism and specificity of decision-making in market economy
2	Skills	student is able to associate and integrate the information, analyze the phenomena occurring in the environment, draw conclusions, formulate and justify opinions
3	Social competencies	Student is able to do a literature research and knows the rules of work group and discussion
Assumptions and objectives of the course: Acquiring of the knowledge about economics of transport , in particular about the specificity of the transport sector and operation and business of transport companies.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Has a basic knowledge of what is happening in the organizational, economic and legal unit - [K1A_W24]		
Skills:		
1. has the ability to self-study using modern teaching tools, such as remote lectures, websites and databases, didactic programs, e-books - [K1A_U03]		
2. is able to use formulas and tables, technical and economic calculations using a spreadsheet and running a simple relational database - [K1A_U05]		
Social competencies:		
1. is able to interact and work in a group, taking on different roles in it - [K1A_K03]		
2. is able to properly define the priorities for the implementation of a task set by himself or others - [K1A_K04]		
Assessment methods of study outcomes		

<p>lectures - assessment of the student activity during lectures Classes - assessment of the student activity during classes and presentations of discussed topics</p> <p>Final evaluation: Lectures: Average rating taking into account assessment of the student activity during lectures and a written final test Classes: average rating taking into account student's activity in the classes and presented topics.</p>		
Course description		
<p>Lectures:</p> <ol style="list-style-type: none"> 1 Economic importance and functions of transport. The relationship between transport and the economy. 2 Strategies on the transport market. Types of strategies. Typical strategies for road transport, logistic sector and air transport. 3 Impact of the regulatory processes on the transport sector. 4 Co-operation and capital consolidation in the transport sector (strategic alliances, mergers and acquisitions) 5 Economic problems in the development of transport companies in Poland relating to the transformation associated with the functioning of the single European market. 6 Market outlook. Opportunities and threats for the development of sub-markets in the transport sector. <p>Classes:</p> <ol style="list-style-type: none"> 1 Costs structure of transport companies. Cost of production of transport services ? total and unit transport cost calculations. The efficiency of transport services, the mechanism of concessions. 2 Prices of transport services. Principles and rules of pricing the transport services . Factors that impact on prices. Methods of pricing - contracts and tariff. Calculation of fees according to the rates and tariffs. 3 Leasing of transport means: Calculation of fees for rental - modal approach. 4 Purchase of transport means: Calculation of the cost of purchases including the projected income, the average variable cost of producing the services and interest rates. 5 Depreciation in transport companies: Types of depreciation. The concept of depreciation. Methods of calculating depreciation - linear method and degressive method 		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Koźlak A., <i>Ekonomika transportu. Teoria i praktyka gospodarcza</i>. Wydawnictwo Uniwersytetu Gdańskiego. Gdańsk, 2008 2. Ciesielski M., Szudrowicz A., <i>Ekonomika Transportu</i>, Wydawnictwo Akademii Ekonomicznej w Poznaniu, Poznań 2001. 3. Mendyk E.: <i>Ekonomika i organizacja transportu</i>. WSzL, Poznań 2002. 		
<p>Additional bibliography:</p> <ol style="list-style-type: none"> 1. Button K. J., 1993. <i>Transport Economics</i>. Publisher Edward Elgar; 2nd edition. Cheltenham Glos 2. Liberadzki B. (red), Mindur L., <i>Uwarunkowania rozwoju systemu transportowego Polski</i>, Wydawnictwo Instytutu Technologii Eksploatacji, Warszawa -Radom 2006 3. Stajniak M., Hajdul M., Foltiński M., Krupa A., <i>Transport i spedycja</i>, Biblioteka Logistyki, Poznań 2005. 		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in lectures	15	
2. Learning of lectures content	5	
3. Preparation for the final test	5	
4. Participation in the final test	2	
5. Preparation for classes	5	
6. Participation in classes	15	
7. Learning of the classes content	5	
Student's workload		
Source of workload	hours	ECTS
Total workload	52	2
Contact hours	32	1
Practical activities	15	1