

Card of Course

Description of Course:	
Code of course	-----
Name of course	Material Flows in Logistics Systems
Version of course	2013/2014
A. Place of the course in system of study	
Level of education	Intermediate
Degree of education	Engineering
Kind of education	Full-time studies
Field of study	Transport
Profile of study	General academic profile
Specialisation	Main field
Place of teaching of course	Faculty of Transport
Place of realization of course	Department of Logistics and Transport Systems
Coordinator of course	Konrad Lewczuk, Ph.D.
B. General characteristic of the course	
Block of courses	Main field
Group of courses	General
Level of course	Intermediate
Status of course	Faculty with choice limited
Language of course	English
Nominal semester	---
Academic year	2013/2014
Preliminary requirements	No preliminary requirements
Limit of number of students	No limit
C. Effects of education and manner of teaching	

Purpose of course	Acquiring knowledge and basic analytic skill about rules of goods flows in logistics systems
Methods of evaluation	Oral test of gained knowledge and skills.
Effects of education	see – table 1
Form of didactic studies and number of hours per week	Lecture – 2 hours
Contents of education	Definitions, logistics systems of different scale, warehouse as an element of supply chain, logistics task – formulation and elements, material and information flow model for a distributional company, logistics centres, parameters of material flows, designing a simple structure for a distributional company
Methods of verification of effects of education	see – table 1
Examination	No.
Literature	[1] Bartholdi III J. J., Hackman S. T.: Warehouse & Distribution Science, Release 0.95, www.warehouse-science.com, Aug 2012. [2] Frazelle H. E. World-Class Warehousing and Material Handling, McGraw-Hill, 2002 [3] Dolgui A., Soldek J., Zaikin O., Supply chain optimization. Product/Process Design, Facility Location and Flow Control, Springer Science 2005.
www of course	Does not have
D. Student's job	
Number of credits ECTS	3 ECTS
Number of hours of student's job for achievement of education's effect (description):	10 hours – lectures and designing exercise 30 hours – reading related materials and own work 20 hours – realizing recommended exercises 2 hours – consultations
Number of credits ECTS on the course with direct participation of academic teacher	1 ECTS
Number of credits ECTS on practical activities on the course	2 ECTS
E. Additional information	
Notes	
Date of last modernization	15.01.2014

Table 1

General academic profile			
Course's effects		Field effects	Area effect
Knowledge			
Effect:	Student has a basic knowledge about supply chains organization and structures of logistics systems	Tr1A_W06	T1A_W02
Code of effect:	W_01	Tr1A_W09	T1A_W04 T1A_W05 T1A_W08
Verification:	Oral test		
Effect:	Student knows basic rules of formulating logistics task for a designing purposes	Tr1A_W12	T1A_W07 T1A_W08
Code of effect:	W_02		
Verification:	Oral test		
Effect:	Student knows rules of material flows transformation in elements of logistics systems	Tr1A_W09	T1A_W04 T1A_W05 T1A_W08
Code of effect:	W_03		
Verification:	Oral test		
Skills			
Effect:	Can formulate logistics task for a purpose of designing procedure	Tr1A_U16	T1A_U12
Code of effect:	U_01		
Verification:	Oral test		
Effect:	Can calculate reliable material flow volumes in given logistics system	Tr1A_U23	T1A_U16
Code of effect:	U_02		
Verification:	Oral test		
Social competences			
Effect:	---		
Code of effect:	---		
Verification:	---		