



DESCRIPTION OF THE OBJECT

FIELD OF STUDY	Management
SPECIALISATION	Occupational health and safety management
MODE OF STUDY	Full-time studies / Part-time studies
SEMESTER	5

Name of the subject	City logistics
Hourly dimension of particular forms of classes	Full-time studies – 30 Part-time studies – 18
• lectures	Full-time studies – 10 Part-time studies – 8
• other forms	Full-time studies – 20 Part-time studies – 10

Learning objectives:	<ul style="list-style-type: none"> – getting to know the subject, scope, goals and tasks of city logistics, – getting to know the essence and components of city logistics system and city logistics infrastructure – to get familiar with logistic methods of action to improve the movement of people and goods in cities – to get to know the model of integrated management of flows of people and goods in cities.
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Learning outcomes for the subject			
Number	Learning outcomes, a student who has successfully completed the course will be able to:	Reference of learning outcomes for the programme	The reference to the learning outcomes for the area
EK_W01	has knowledge of the scope, aims and tasks of city logistics	K_W01	P6S_WG
EK_W02	characterise and evaluate individual solutions for counteracting transport congestion in cities	K_W07	P6S_WG
EK_U03	plans measures for the coordination and integration of flows in cities	K_U05	P6S_UW
EK_U04	selects and presents logistical solutions to improve the flow of people and goods in a selected city	K_U06	P6S_UW
EK_K05	participates in the work of a project team fulfilling different roles in it (shows responsibility for own work and the work of others)	K_K04	P6S_KO
EK_K06	strives to complement and improve the acquired knowledge and skills	K_K01	P6S_KK

Content number	Educational/ curricular content	Reference to learning
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		outcomes for the subject
	Lectures	
T_01	The city as a space for logistical activities (systemic approaches of the city, transport needs, types of flows and their interrelations).	EK_W01 EK_W02
T_02	Urban transport congestion (types, causes, effects and costs).	EK_W01 EK_W02
T_03	City logistics and the city logistics system.	EK_W01 EK_W02
T_04	Urban freight logistics (organisation of freight flows and storage, choice of delivery system, urban consolidation centres, nearby delivery zones, loading zones and bays, environmentally friendly vehicles, CargoTram)	EK_W01 EK_W02
T_05	Concept of integrated management of passenger and cargo flows in cities.	EK_W01 EK_W02
	Exercises	
T_06	Methods of action for improving the flow of people in cities - examples of solutions in foreign and Polish cities.	EK_U03 EK_U04 EK_K05 EK_K06
T_07	Ways to improve the flow of goods in cities - examples of solutions in foreign and Polish cities.	EK_U03 EK_U04 EK_K05 EK_K06
T_08	Ways of improving the waste management system (municipal waste, packaging, bulky waste, electro-waste - Waste Electrical and Electronic Equipment) - examples of solutions in foreign and Polish cities.	EK_U03 EK_U04 EK_K05 EK_K06
T_09	Methods of action for improving the flow of people in cities - examples of solutions in foreign and Polish cities.	EK_U03 EK_U04 EK_K05 EK_K06

Methods and forms of teaching	Educational and curricular content
Lecture with multimedia presentation of selected issues	
Conversation lecture	T_01 – T_05
Problem-based lecture	
Informative lecture	
Discussion	
Working with text	
Case study method	
Problem-based learning	
Didactic/simulation game	
Exercise method	T_06 – T_09
Workshop method	
Project method	
Multimedia presentation	

Audio and/or video demonstrations	
Activation methods (e.g. brainstorming, SWOT analysis technique, decision tree technique, „snowball” method, constructing „mind maps”)	
Other (which ones?) - ...	
...	

Evaluation criteria in relation to particular learning outcomes				
Learning outcome	For assessment 2	For assessment 3	For assessment 4	For assessment 5
EK_W01	The student has no knowledge of the scope, aims and tasks of city logistics.	The student has a basic knowledge of the scope, aims and tasks of city logistics.	The student has good knowledge of the scope, aims and tasks of city logistics.	The student has a comprehensive knowledge of the scope, objectives and tasks of city logistics.
EK_W02	The student does not characterise and evaluate individual solutions against transport congestion in cities.	The student in the basic level characterises and evaluates particular solutions counteracting transport congestion in cities.	The student will to a good extent characterise and evaluate individual solutions counteracting transport congestion in cities.	The student fully characterises and evaluates individual solutions counteracting transport congestion in cities.
EK_U03	The student does not plan activities for the coordination and integration of urban flows.	The student plans activities for the coordination and integration of urban flows to a basic level.	The student plans activities for the coordination and integration of urban flows to a good extent.	The student plans activities for the coordination and integration of urban flows to a full extent.
EK_U04	The student does not select and present logistic solutions to improve the movement of people and cargo in the selected city.	The student in the basic level selects and presents logistic solutions facilitating the movement of people and goods in the selected city.	The student selects and presents logistic solutions facilitating the movement of people and goods in the selected city.	The student fully selects and presents logistic solutions facilitating the movement of people and goods in the selected city.
EK_K05	The student does not participate in the work of the project team in different roles (does not show responsibility for his/her own work and the work of others).	The student participates to a basic extent in the works of a project team, playing various roles in it (shows responsibility for his/her own work and the work of others).	The student participates to a good extent in the works of a project team, taking various roles in it (shows responsibility for own work and the work of others).	The student participates fully in the work of the project team, taking various roles in it (shows responsibility for his/her own work and the work of others).
EK_K06	The student does not strive to complete and improve the acquired knowledge and skills.	The student is obliged to complement and improve the acquired knowledge and skills to a basic extent.	The student is able to work in a group taking various roles, is aware of the necessity of continuous improvement.	The student is able to work actively in a group, taking various roles, is aware of the need for continuous professional and general improvement.

Verification of learning outcomes	EK symbols for the module/subject					
	W01	W02	U03	U04	K05	K06
Written examination						
Oral examination						
Written credit						
Oral credit	X	X	X	X	X	X
Written colloquium						
Oral colloquium	X	X	X	X	X	X
Test						
Project						
Written work						
Report						
Multimedia presentation						
Work during exercise	X	X	X	X	X	X
Other (which?) -						

Hourly teaching load and student workload	Full-time studies	Part-time studies
1. Lectures (joint participation of academics and students)	10	8
2. Other forms (joint participation of academic staff and students)	20	10
3. Consultation with the teacher	-	-
Total 1+2+3	30	18
4. Internships (carried out by students on their own)	—	—
5. Student's own work (including homework and project work, preparation for a credit/exam)	20	32
Total 4+5	20	32
SUMMARY 1+2+3+4+5	50	50
Total ECTS credits according to the study plan	2	

Reference literature	<ol style="list-style-type: none"> 1. Szymczak M, 2008. <i>Logistyka miejska</i>. Wyd. Uniwersytetu Ekonomicznego, Poznań. 2. Szoltysek J., 2009. <i>Logistyczne aspekty zarządzania przepływami osób i ładunków w miastach</i>. Wydanie drugie. Wyd. UE, Katowice.
Complementary literature	<ol style="list-style-type: none"> 1. Gołomska E. (red.), 2009. <i>Kompendium wiedzy o logistyce</i> (wydanie III) . PWN, Warszawa. 2. Matulewski M., Konecka S., Fajer P., Wojciechowski A., 2008. <i>Systemy Logistyczne - komponenty, działania, przykłady</i>. Instytut Logistyki i Magazynowania, Poznań. 3. Szoltysek J., 2011. <i>Kreowanie mobilności mieszkańców miast</i>. Wolters Kluwer, Warszawa 4. Szoltysek J., 2009. <i>Logistyka zwrotna</i>. Instytut Logistyki i Magazynowania, Poznań. 5. Tundys B., 2008. <i>Logistyka miejska. Koncepcje, systemy, rozwiązania</i>. Difin, Warszawa. 6. Wyszomirski O., 2008. <i>Transport miejski. Ekonomia i organizacja</i>. Wyd. Uniwersytetu Gdańskiego, Gdańsk.