		STUDY MODULE D	ESCRIPTION FORM				
Name of the module/subject Public Transportation				Code 1010615321010622257			
Field of study			Profile of study (general academic, practical)	Year /Semester			
Transport			general academic	1/2			
Elective path/specialty Road Transport			Subject offered in: <b>Polish</b>	Course (compulsory, elective) obligatory			
Cycle o	f study:	-	Form of study (full-time,part-time)				
Second-cycle studies			part-time				
No. of h	iours			No. of credits			
Lectu	re: 18 Classes	s: - Laboratory: -	Project/seminars:	2			
Status of	of the course in the study	program (Basic, major, other)	(university-wide, from another field)				
		other	univers	ity-wide			
Education areas and fields of science and art ECTS distribut and %)							
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Prere	equisites in term	s of knowledge, skills an	d social competencies:				
1	Knowledge	Student has basic knowledge concerning transportation systems and processes. He/she acquired knowledge about different transportation modes.					
2	Skills	Student can analyze and evaluate transportation systems; understands the phenomena taking place in there systems and can interpret them. Student is able to classify transport.					
3	Social competencies	Student is aware of the role and importance of public transportation.					
Assu	mptions and obj	ectives of the course:					
			on ? processes and phenomena as vorld; evaluation of public transport				
	Study outco	mes and reference to the	educational results for a	field of study			
Knov	vledge:						
1. Stuc	dent knows the notion/	definition, scope and operational r	ules of public transportation [K2	A_W12, K2A_W22]			
	ws the history and evo N12, K2A_W22]	olution of technical and organization	nal solutions applied in public tran	sportation around the world.			
	•		assengers transportation - [K2A_W	·			
resour	ces, organizational rul	es, processes [K2A_W12, K2A_					
5. Knows the standards of public transportation, operations and indicators of its efficiency [K2A_W12, K2A_W22]							
	<ol> <li>Knows the sub-system of road(bus) transportation [K2A_W12, K2A_W22]</li> <li>Knows the sub-system of rail road transportation (light rail, tram, subway-metro) [K2A_W12, K2A_W22]</li> </ol>						
		rail road transportation (light rail, t	ram, subway-metro) [K2A_W12,	K2A_W22]			
Skills	5:						

1. Can define and characterize public transportation - [K2A\_U16]

2. Can identify phenomena and processes associated with public transportation - [K2A\_U16]

3. Is able to evaluate the modernity of solutions applied in public transportation. - [K2A\_U16]

4. Can design the public transportation system to carry out the passengers? travels (including: transport infrastructure,

transportation means, human resources, organizational rules, processes.) - [K2A\_U16]

5. Can evaluate the system of public transportation. - [K2A\_U16]

6. Is able to characterize, evaluate and select transportation means (road and rail) for public transportation system. - [K2A\_U16]

7. Can diagnose and redesign sub-systems of road and rail public transportation. - [K2A\_U16]

#### Social competencies:

1. The student is aware of the role of public transportation for the society/community. Can define its role and defend its position in the society/community - [K2A \_K02]

2. Understands the essence of public passengers? transportation and its interactions with freight and private transportation -  $[K2A \_K02]$ 

3. Can analyze the effects of good and bad operations of public transportation. - [K2A \_K02]

### Assessment methods of study outcomes

Students? presentations ? development of selected public transportation solutions. Students projects. Final test/exam. Comprehensive review of students? knowledge. Examination test ? quantitative/computational and qualitative/descriptive tasks.

### Course description

The notion and characteristics of public transportation. Introduction to public transportation. The essence and major characteristics of public transportation. Basics definitions concerning public transportation. The review of public transportation systems in the world.

Operational rules for public transportation. Mass character of transport. Organizational forms and classification of public transportation system design. Major stakeholders in public transportation.

The history of public transportation in the world.Description of major phases of public transportation development in various countries. Characteristics of public transportations solutions in different time periods.

The phenomena associated with public transportation. Characteristic of principal phenomena associated with public transportation such as: seasonal character of transport, traffic congestions, demand variability, transport reliability (regularity), etc.

Evaluation indicators for public transportation. Definition and presentations of basic indicators describing and evaluating public transport operations, such as: travel time, comfort of travel, cost of travel, fleet utilization, timeliness/regularity.

Subsystem of road (bus) transportation. Characteristic of road (bus) sub-system transport. Analysis of transportation infrastructure and transportation means.

Subsystem of rail road (light rail, tram, subway-metro) transportation. Characteristic of railroad transportation. Analysis of transportation infrastructure and transportation means.

### Basic bibliography:

# Additional bibliography:

# Result of average student's workload

Activity	Time (working hours)					
1. Lectures	25					
2. Individual consultations	9					
3. Preparing for exam	16					
Student's workload						
Source of workload	hours	ECTS				
Total workload	50	2				
Contact hours	25	1				

Practical activities	0	0