GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Social aspects in transport engineering, PG_00062425		
Field of study	Transport		
Date of commencement of studies	February 2027	Academic year of realisation of subject	2026/2027
Education level	second-cycle studies	Subject group	Obligatory subject group in the field of study Humanistic-social subject group
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	1	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Romanika Okraszewska	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	15.0	0.0	0.0	0.0	45

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	45	10.0	20.0	75

Subject objectives

Identification of mutual relations between transport development and social changes: the impact of transport engineering achievements (infrastructure, autonomous vehicles, ITS) on society and society on transport engineering solutions (new technologies, social participation, etc.). Assessment of potential opportunities and threats resulting from various scenarios of transport development and social changes.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W05] takes into account in its analyzes in an in-depth manner both the technical, environmental, economic, legal and ethical context, being aware of responsibility for the consequences of its decisions, supporting the development of individual entrepreneurship	The student has knowledge about diverse transport needs resulting from the characteristics of users	[SW2] Assessment of knowledge contained in presentation
[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student has general knowledge of the mutual relations between the development of transport and social development.	[SW1] Assessment of factual knowledge
[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	The student is able to explain the need to implement the principles of universal design to ensure full accessibility of transport for all users.	[SK5] Assessment of ability to solve problems that arise in practice
[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student is able to calculate the value of individual social impact criteria used in the multi-criteria analysis method when selecing the optimal investment option.	[SU4] Assessment of ability to use methods and tools

Subject contents

Course content – lecture

Social aspects of transport engineering - development of a maindmap of areas and thematic issues detailed in subsequent lectures, including: the impact of transport development on the living environment, people with special needs in transport, universal design in transport, thinking in the life cycle of a transport facility, social aspects in transport documentation , the role of society in the process of planning transport infrastructure, social participation in the design process, transport vs. social exclusion, the need for equal/ fair access to transport, transport and public health, the impact of new trends in transport engineering on society, the impact of emergency situations on mobility, employment in transport sector.

Course content – exercises

Classification and characterization of transport users. Identification of architectural and communication barriers. Methodology for assessing the accessibility of transport infrastructure, with particular emphasis on the assessment of transport hubs. Fieldwork sessions encompassing the analysis of the needs of groups with limited mobility through practical experience with barriers and the assessment of selected transport hubs. Methodology for public consultations. Presentation of the results of conducted field assessments and analyses.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
0-10	60.0%	50.0%
0-100	60.0%	50.0%

Recommended reading

Basic literature

Social aspects of transport:

- Managing the Social Dimensions of Transport. The Role of Social Assessment, Social Development Department/Transport Division, The World Bank, 1999

People with Special Needs:

- Act of July 19, 2019 on ensuring accessibility for people with special needs (Journal of Laws of 2019, item 1696)
- International Classification of Disability and Health Functioning (ICF), World Health Organization, Geneva 2009

Transport availability:

- Improving Transport Accessibility for All. Guide to Good Practice, European Conference of Ministers of Transport, 2006
- Verseckienėa A., Meškauskasa V., Batarlienėa N., 2016. Urban Public Transport Accessibility for People with Movement Disorders: the Case Study of Vilnius, [in:] Procedia Engineering 134, pp.48 55 Social exclusion:
- Lucas K.: Transport and social exclusion: Where are we now? Transport Policy, 2012, vol. 20, pp. 105-113. Church A., Frost M., Sullivan K., 2000. Transport and social exclusion in London. Journal of Transport Policy, vol. 7, no. 3, pp. 195-205.

Social participation:

- Bluj A., Jagaciak M., Perchuć-Żółtowska M., PliszczyńskaPracownia K., ABC of civic participation - a guide for organizers of participatory processes, Research and Social Innovation "Stocznia", Warsaw 2018

Supplementary literature

Useful links:

partycypacjaobywatelska.pl

eResources addresses

Example issues/ example questions/ tasks being completed

Wskaż trzy grupy OzSP i wskaż różnice w potrzebach transportowych i oczekiwaniach względem infrastruktury transportu.

Omów zagadnienie kosztów społecznych transportu

Omów potencjalne scenariusze wpływu pojazdów autonoicznych na społeczeństwo.

Practical activites within the subject

Not applicable

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