

**Subject card**

<b>Subject name and code</b>	Transport and spatial planning, PG_00150430						
<b>Field of study</b>	Socio-economic geography with elements of GIS						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2024/2025		
<b>Education level</b>	Master's studies	<b>Subject group</b>			Obligatory subject group in the field of study Humanistic-social subject group		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	1	<b>Language of instruction</b>			Polish Polish		
<b>Semester of study</b>	2	<b>ECTS credits</b>			6.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			exam		
<b>Conducting unit</b>	Division of Regional Development -> Institute of Socio-Economic Geography and Spatial Management -> Faculty of Social Sciences -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Renata Anisiewicz				
	<b>Teachers</b>		dr Renata Anisiewicz mgr Janusz Górny				
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	30.0	30.0	0.0	0.0	0.0	60
	E-learning hours included: 0.0						
	Additional information:  -Project method (research, implementation, practical project)  -Problem lecture						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM		
	<b>Number of study hours</b>	60	30.0	60.0	150		
<b>Subject objectives</b>	Knowledge and skills in using GIS tools and basic data description and visualization tools in the process of analysis and forecasting of the functioning and development of transport systems in urban areas; competences and ability to interpret data and results of spatial or spatiotemporal analyzes presented in the form of descriptions of tables, charts and maps.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GSEMU2_U03] select and apply appropriate social research methods (including statistical and cartographic ones) and research tools with particular emphasis on information technologies and GIS software	selects and creates appropriate methods and tools for examining functional and spatial structures, including socio-economic structure of a given area	[SU2] presentation/project/paper/report
	[GSEMU2_K02] solve cognitive and practical problems in the field of socio-economic geography in cooperation with various entities, taking into account the acquired knowledge	proposes modification to the existing transport system in a given area in order to improve the functioning of entire socio-economic system	[SK2] presentation/project/paper/report
	[GSEMU2_U02] properly select sources and information derived from them, with particular regard to sources of spatial information; evaluate them critically and interpret them creatively	identifies functional and spatial structures and uses them in modeling transport systems of a given areas	[SU2] presentation/project/paper/report
	[GSEMU2_K01] critically assess knowledge and received content in the field of socio-economic geography and Geographic Information Systems	proposes improved solutions for the construction of transport systems in various areas based on the assessment of existing needs and existing socio-economic relations	[SK2] presentation/project/paper/report
	[GSEMU2_W03] to a deeper extent the determinants (natural, social, economic, cultural) of processes occurring in the human life environment on various spatial and time scales	recognize the environmental, social and economic determinants of movement processes on a local and regional scale and on various time scales	[SW4] test/exam - oral or written
	[GSEMU2_W02] in-depth complexity of knowledge about the specifics of the functioning of territorial social systems	explains the role of transport in the functioning of territorial social systems	[SW4] test/exam - oral or written
	[GSEMU2_W04] in-depth methods and tools (quantitative, qualitative, cartographic) of research in socio-economic geography	knows and understands methods of modeling transport systems using GIS tools	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report

Subject contents	<p>A.Topics of the lecture</p> <p>A1. Definition of basic concepts: transport and communication, urban transport, public transport, collective transport, individual transport. Types of means of transport and their advantages and disadvantages in specific conditions.</p> <p>A2. Stages of development of public urban transport and its impact on the spatial structure of cities. Changes in the importance of public transport in cities in the face of the development of individual motorization.</p> <p>A3.Technical, economic and spatial conditions for the development of urban and individual transport.</p> <p>A4. Operation of public transport systems in selected cities in Poland and around the world.</p> <p>A5.Contemporary trends in planning and organizing public transport systems.</p> <p>A6.Prospects for the development of public transport in cities in Poland (in the context of Poland's membership in the EU) and in the world. Transport development strategies in the face of contemporary trends in urban development (including suburbanization, revitalization).</p> <p>A7. Shaping public and individual transport systems in urbanized areas.</p> <p>A8. Technical, economic and spatial conditions for creating transport networks in urban and suburban areas.</p> <p>A9. Organizational and legal conditions for the functioning of public and individual transport in Poland and in the world.</p> <p>A10.Planning transport development in the context of strategic documents at the national and European level.</p> <p>A11. Demand for ecological transport.</p> <p>A12. Costs of transport operation.</p> <p>B. Exercise issues</p> <p>B1. Urban theory and concepts and their impact on transport systems</p> <p>B2. Analysis of the spatial and functional structure of urbanized areas in the context of transport systems</p> <p>B3. Tools supporting the analysis and modeling of transport systems</p> <p>B4. Forecasting the demand for public and individual transport services</p> <p>B5. Designing changes in transport systems</p>
Prerequisites and co-requisites	<p>-has knowledge and skills in using GIS software, word processors and spreadsheets</p> <p>-has knowledge and skills in preparing a written study</p>

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	project or presentation	51.0%	50.0%
	presentation or written test	51.0%	50.0%
Recommended reading	Basic literature	<p>Lijewski T., 1986, Geografia transportu Polski, PWE, Warszawa.</p> <p>Koziarski S., 2005, Transport w Europie, Wydawnictwo Uniwersytetu Opolskiego, Opole, Wydawnictwa Komunikacji i Łączności, Warszawa.</p> <p>Rudnicki A., 1999, Jakość komunikacji miejskiej, Stowarzyszenie Inżynierów i Techników Komunikacji, Kraków.</p> <p>Wesołowski J., 2008, Miasto w ruchu. Dobre praktyki w organizowaniu transportu miejskiego, Instytut Spraw Obywatelskich, Łódź.</p> <p>Wyszomirski O. (red.), 2008, Transport miejski. Ekonomia i organizacja, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk.</p> <p>Taylor Z., 2007, Rozwój i regres sieci kolejowej w Polsce, IGiPZ PAN, Warszawa.</p> <p>Koziarski S., 1996, Przekształcenia struktury przestrzennej sieci kolejowej w Polsce i na świecie, Państwowy Instytut Naukowy Instytut Śląski w Opolu, Opole.</p> <p>Koziarski S., 2004, Rozwój przestrzenny sieci autostrad na świecie, Studia i Monografie UO, Uniwersytet Opolski, Opole.</p> <p>Grzywacz W., Wojewódzka-Król K., Rydzkowski W., 2003, Polityka transportowa, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk.</p> <p>Połom M., Palmowski T., 2009, Rozwój i funkcjonowanie komunikacji trolejbusowej w Gdyni, Wydawnictwo Bernardinum, Gdynia-Pelplin.</p> <p>Pijet-Migoń E., 2012, Zmiany rynku lotniczych przewozów pasażerskich w Polsce po akcesji do Unii Europejskiej, Rozprawy Naukowe Instytutu Geografii i Rozwoju Regionalnego Uniwersytetu Wrocławskiego nr 25, Wrocław.</p> <p>Soczówka A., 2012, Zróżnicowanie struktury przestrzennej komunikacji miejskiej w konurbacji katowickiej, Prace Wydziału Nauk o Ziemi UŚ, nr 76, Katowice.</p> <p>Wiśniewski Ł., 2015, Zróżnicowanie dostępności transportowej miast w województwie łódzkim, Wydawnictwo Uniwersytetu Łódzkiego, Łódź.</p>	
	Supplementary literature	<p>Goliszek S., Połom M., 2016, Wpływ budowy nowej linii tramwajowej w Olsztynie na zmianę dostępności transportem zbiorowym, Acta Sci. Pol. Administratio Locorum, 15(3), s. 19-34.</p> <p>Połom M., Beger M., Topa E., 2017, Badania nad dostępnością pieszą i transportem zbiorowym do parków miejskich na przykładzie Gdańska, Studia Miejskie, 27, s. 25-38.</p> <p>Połom M., Goliszek S., 2017, Transport in Poland during the period of accession of the European Union, Journal of Geography, Politics and Society, 7(3), s. 41-49.</p> <p>Połom M., Tarkowski M., Puzdrakiewicz K., 2018, Urban transformation in the context of rail transport development: the case of a newly built railway line in Gdańsk (Poland), Journal of Advanced Transportation, ID 1218041, s. 1-15.</p> <p>Połom M., Tarkowski M., 2018, Rola Pomorskiej Kolei Metropolitalnej w kształtowaniu struktury przestrzenno-funkcjonalnej Gdańska, Studia Miejskie, 30, s. 39-55.</p> <p>Puzdrakiewicz K., 2017, Zastosowanie zielonej infrastruktury do zmniejszenia negatywnych zjawisk spowodowanych transportem w środowisku miejskim, Prace Komisji Geografii Komunikacji PTG, 20(2), s. 69-78.</p> <p>Wybrane artykuły naukowe z czasopism branżowych: Prace Komisji Geografii Komunikacji PTG, Warszawa-Rzeszów-Gdańsk, Transport Miejski i Regionalny, Przegląd Komunikacyjny, TTS Technika Transportu Szynowego, Autobusy: Technika, Eksploatacja, Systemy Transportowe i podobnych, Rynek Kolejowy, Infrastruktura Transportu, Journal of Transport Geography, Transport Reviews, Transport Policy i pokrewnych.</p>	
	eResources addresses		
Example issues/ example questions/ tasks being completed	issues covering the main content of exercises and lectures		
Work placement	Not applicable		

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