

Subject card

Subject name and code	Infrastructure and Technology Development in Transport, PG_00119123						
Field of study	Economics						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2026/2027		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	5	ECTS credits			2.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Department of Transport Policy and Economic Integration -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Ryszard Rolbiecki				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Additional information: lectures with multimedia presentations						
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	15		0.0		0.0	15
Subject objectives	Familiarizing students with the specificity of infrastructure, methods of research on the level of development of transport infrastructure and principles of development of transport infrastructure. Familiarizing students with contemporary problems of development of transport infrastructure and transport technology in Poland against the background of European trends. Ability to critically evaluate the effectiveness of the implemented transport infrastructure development policy in Poland.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[EKONL3_K02] is aware of the level of knowledge in the field of economics and understands the need to deepen and update this knowledge throughout life	The student is able to supplement and deepen his/her knowledge in the field of issues related to infrastructure and technologies in transport	[SK4] test/exam - oral or written
	[EKONL3_U08] has the ability to observe, understand and analyse economic and social phenomena and processes using appropriate scientific methods	The student applies appropriate methods in the process of assessing infrastructure development and its implications.	[SU4] test/exam - oral or written
	[EKONL3_W02] has advanced knowledge of the different types of existing business entities and organisations and public institutions	he student lists the institutions responsible for infrastructure development and describes the scope of their competences.	[SW4] test/exam - oral or written
	[EKONL3_U02] is able to use the knowledge of theory and data to analyse concrete economic and social processes and phenomena and to analyse these phenomena using methods developed in economics, finance and management sciences	The student obtains data necessary to assess the level of development of infrastructure and technology in transport.	[SU4] test/exam - oral or written
	[EKONL3_U03] is able to analyse the causes and course of specific economic and social processes and phenomena, and accurately analyse these phenomena using adequate methods and tools economic and social	The student analyzes and evaluates the state of development of infrastructure and technology in transport using appropriately selected methods.	[SU4] test/exam - oral or written
	[EKONL3_K04] is willing to think and act in an entrepreneurial manner; adapts to new situations and conditions, takes on the challenges of creative thinking, is resilient in the face of failure, is able to identify risks and assess the risks of failure	The student identifies the effects and threats related to the development of transport networks and technologies in transport.	[SK4] test/exam - oral or written
	[EKONL3_K01] recognises the importance of economic knowledge in identifying and solving economic problems and of consulting experts when difficulties in solving them independently	The student lists arguments proving the role of transport infrastructure in economic development and its importance as a factor of transport production.	[SK4] test/exam - oral or written
	[EKONL3_W09] has in-depth knowledge of the evolution of theories describing economic entities and organisations as well as public institutions, and is familiar with the functional links within them	The student lists and characterizes the basic theories related to infrastructure development.	[SW4] test/exam - oral or written
	[EKONL3_W03] has advanced knowledge of the relations between economic agents and social organisations operating in the national, international and intercultural arenas	The student lists the entities and their scope of responsibility for the development of infrastructure at the national and international level.	[SW4] test/exam - oral or written

Subject contents	<p>1. Specificity of transport infrastructure as a determinant of transport development (essence, importance of infrastructure as the basis of socio-economic development, technical and economic features of transport infrastructure, principles of transport infrastructure development).</p> <p>2. Interdependencies and models of transport infrastructure development.</p> <p>3. Status and directions of transport infrastructure development in Europe (socio-economic effects of transport infrastructure development, international conflicts in the process of transport infrastructure development, the process of unifying transport networks in Europe, TEN networks, core network, transport corridors, sources of financing for transport infrastructure development).</p> <p>4. Status and directions of transport infrastructure development in Poland (status of transport infrastructure in Poland in the light of European trends, effects of the current state of infrastructure, development problems. trends in the development of road infrastructure, rail infrastructure, inland waterways, directions of development of point infrastructure in transport).</p> <p>5. Directions of development of cargo transport technologies within individual modes of transport (transport process and technological process, transport technologies in road, rail and water transport).</p> <p>6. Directions of development of combined transport as an environmentally friendly transport technology (multimodal and intermodal transport, definition and types of combined transport, conditions for the development of combined transport, forms of rail-road transport, development of combined transport in Europe, problems of the development of combined transport in Poland).</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="454 913 794 943">Subject passing criteria</th> <th data-bbox="799 913 1139 943">Passing threshold</th> <th data-bbox="1144 913 1482 943">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 949 794 978">test/otal examination</td> <td data-bbox="799 949 1139 978">51.0%</td> <td data-bbox="1144 949 1482 978">50.0%</td> </tr> <tr> <td data-bbox="454 985 794 1032">activity during classes and student's own work</td> <td data-bbox="799 985 1139 1032">51.0%</td> <td data-bbox="1144 985 1482 1032">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	test/otal examination	51.0%	50.0%	activity during classes and student's own work	51.0%	50.0%
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Recommended reading	Basic literature	<p>1.P. Rosik, J. Wójcik (2023), Transport Infrastructure and Regional Development: A Survey of Literature on Wider Economic and Spatial Impacts, <i>Sustainability</i>, 15(1), 548; https://doi.org/10.3390/su15010548</p> <p>2. A. J. Khadaroo, B. Seetanah (2010), Transport Infrastructure and Foreign Direct Investment, <i>Journal of International Development</i>. Int. Dev. 22, 103123, https://onlinelibrary.wiley.com/doi/epdf/10.1002/jid.1506</p>										
	Supplementary literature	<p>2. J. Short, A. Kopp (2005), Transport infrastructure: Investment and planning. Policy and research aspects, <i>Transport Policy</i> 12 (2005) 360367.</p>										
	eResources addresses											
Example issues/ example questions/ tasks being completed	<p>What measures can be used to assess the infrastructure potential of a given region?</p> <p>How can the level of infrastructure development in individual transport sectors in Poland be assessed?</p> <p>Identification of the effects of the existing level of transport infrastructure development in Poland?</p>											
Work placement	Not applicable											

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