

Subject card

Subject name and code	Sustainable Urban Mobility, PG_00199370						
Field of study	Economics						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
Education level	Master's studies	Subject group			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			2.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Department of Transport Market -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Marcin Wołek				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	15.0	0.0	30
	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	30		0.0		20.0	50
Subject objectives	To familiarize the student with the concept of sustainable mobility. Indication of the connections between spatial planning and transport. Presentation of the sustainable mobility planning process along with selected analytical methods. Presenting to the Student how to monitor the mobility plan.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[EKONMU2_K04] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking; acquires resilience to failures; can assess risks and threats and find ways of counteracting their effects	The student has the ability to critically analyze strategic documents referring to sustainable mobility using economic instruments.	[SK2] presentation/project/paper/report [SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[EKONMU2_U08] can independently analyse economic and social phenomena and processes, and can perform a theoretically deepened assessment of such phenomena, using appropriately selected research method	The student can assess the most important elements of the sustainable mobility planning process.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[EKONMU2_K03] inspires and organises preparation of economic and social projects, following the idea of sustainable development, reconciling legal, economic, ecological, political and social requirements	The student can prepare a project based on economic theories relating to sustainable development.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[EKONMU2_W07] has an in-depth knowledge of economic and financial principles governing the functioning and management of economic entities and organisations, as well as of systems of legal, organisational, professional, moral and ethical norms and rules organising public structures and institutions, both in the national and international spheres	The student can use interdisciplinary knowledge to interpret complex social, economic, and spatial phenomena that are analysed in the process of planning sustainable mobility.	[SW1] oral statement/conversation/discussion
	[EKONMU2_W03] has a knowledge of relations between economic phenomena, entities and organisations as well as public institutions functioning in the national, international and intercultural spheres	The student can identify the most important connections and stakeholders necessary for planning sustainable mobility.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[EKONMU2_U06] can practically apply various forms and range of acquired knowledge in economics, finance and management, supplementing it with an independent critical analysis of its efficiency and usefulness	The student can assess the most important elements of the sustainable mobility planning process.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report

Subject contents	<p>Sustainable mobility as a response to global challenges</p> <p>1.1. Environmental reasons for planning sustainable mobility 1.2. Spatial structures and transport 1.3. EU legal framework 2. Case study: Sustainable urban mobility planning process</p> <p>2.1. Identification and diagnosis of stakeholders 2.2. Development of scenarios 2.3. Vision, goals, action plan and monitoring</p> <p>3. Active mobility in planning sustainable mobility</p> <p>3.1. Pedestrian traffic 3.2. Cycling traffic 3.3. Active mobility in mobility chains</p> <p>4. Car in the city 4.1. Traffic optimization 4.2. City logistics and freight transport 4.3. Reducing the impact of motoring on the environment</p> <p>5. Public transport - the basis of sustainable urban mobility</p> <p>5.1. Public transport and urban development 5.2. Public transport means and their features 5.3. New trends in the development of public transport</p> <p>6. Selected methods for analyzing sustainable mobility</p> <p>6.1. Environmental approach 6.2. Spatial approach 6.3. Economic and social approach</p> <p>7. Sustainable mobility in a global context</p> <p>Any doubts regarding the issues discussed can be clarified during the consultations.</p>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 1202 794 1234">Subject passing criteria</th> <th data-bbox="799 1202 1141 1234">Passing threshold</th> <th data-bbox="1145 1202 1485 1234">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 1240 794 1272">Attendance rate</td> <td data-bbox="799 1240 1141 1272">51.0%</td> <td data-bbox="1145 1240 1485 1272">25.0%</td> </tr> <tr> <td data-bbox="453 1279 794 1310">The project</td> <td data-bbox="799 1279 1141 1310">51.0%</td> <td data-bbox="1145 1279 1485 1310">60.0%</td> </tr> <tr> <td data-bbox="453 1317 794 1348">Student's activity</td> <td data-bbox="799 1317 1141 1348">51.0%</td> <td data-bbox="1145 1317 1485 1348">15.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Attendance rate	51.0%	25.0%	The project	51.0%	60.0%	Student's activity	51.0%	15.0%
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Recommended reading	<p>Basic literature</p> <p>. Guidelines for developing and implementing a Sustainable Urban Mobility Plan (2nd edition), available online: https://www.eltis.org/sites/default/files/sump_guidelines_2019_interactive_document_1.pdf.</p> <p>S. Miecznikowski, T. Radzikowski, M. Wołek: Stan i potencjał rozwojowy kolejowych korytarzy intermodalnych w Polsce w kontekście Inicjatywy Pasa-Drogi. Wyd. UG, Gdańsk 2021 (książka tylko w wersji elektronicznej) 3.</p> <p>M. Wołek et al.: Ensuring sustainable development of urban public transport: a case study of the trolleybus system in Gdynia and Sopot (Poland). "Journal of Cleaner Production" 2021 vol. 279 4.</p> <p>Selected articles from journals, including "PLOS One", "Transportation Research", "Sustainability", "Energy Policy".</p>														

	Supplementary literature	<p>1. Planning and Design for Sustainable Urban Mobility: Global Report on Human Settlements 2013. Available online: https://unhabitat.org/sites/default/files/download-manager-files/Planning%20and%20Design%20for%20Sustainable%20Urban%20Mobility.pdf</p> <p>2. M. Wolek, A. Jagiełło, M. Wolanski: Multi-criteria analysis in the decision-making process on the electrification of public transport in cities in Poland: a case study analysis. "Energies" 2021 vol. 14 nr 19</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	Monitoring assessment of the Sustainable Urban Mobility Plan.	
Work placement	Not applicable	

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