

**Subject card**

<b>Subject name and code</b>	Sustainable Urban Mobility, PG_00119293						
<b>Field of study</b>	Economics						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2025/2026		
<b>Education level</b>	postgraduate studies	<b>Subject group</b>			Obligatory subject group in the field of study Specialty subject group		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	4	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Katedra Rynku Transportowego -> Faculty of Economics						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr hab. Marcin Wołek				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<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>	15		0.0		0.0	15
<b>Subject objectives</b>	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_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
	[EKONMU2_W03] has an in-depth 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_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_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_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

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>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 1122 794 1151">Subject passing criteria</th> <th data-bbox="799 1122 1141 1151">Passing threshold</th> <th data-bbox="1145 1122 1485 1151">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 1158 794 1187">Student's activity</td> <td data-bbox="799 1158 1141 1187">0.0%</td> <td data-bbox="1145 1158 1485 1187">15.0%</td> </tr> <tr> <td data-bbox="453 1193 794 1223">Attendance rate</td> <td data-bbox="799 1193 1141 1223">65.0%</td> <td data-bbox="1145 1193 1485 1223">25.0%</td> </tr> <tr> <td data-bbox="453 1229 794 1258">The project</td> <td data-bbox="799 1229 1141 1258">60.0%</td> <td data-bbox="1145 1229 1485 1258">60.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Student's activity	0.0%	15.0%	Attendance rate	65.0%	25.0%	The project	60.0%	60.0%
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Recommended reading	Basic literature	<p>. Guidelines for developing and implementing a Sustainable Urban Mobility Plan (2nd edition), available online: <a href="https://www.eltis.org/sites/default/files/sump_guidelines_2019_interactive_document_1.pdf">https://www.eltis.org/sites/default/files/sump_guidelines_2019_interactive_document_1.pdf</a> 2.</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: <a href="https://unhabitat.org/sites/default/files/download-manager-files/Planning%20and%20Design%20for%20Sustainable%20Urban%20Mobility.pdf">https://unhabitat.org/sites/default/files/download-manager-files/Planning%20and%20Design%20for%20Sustainable%20Urban%20Mobility.pdf</a></p> <p>2. M. Wołek, 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	Adresy na platformie eNauczanie:													

Example issues/ example questions/ tasks being completed	Monitoring assessment of the Sustainable Urban Mobility Plan.
Work placement	Not applicable

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