

Subject card

Subject name and code	Sustainable Urban Mobility Planning, PG_00174113						
Field of study	Logistics and Mobility						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master'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	2		Language of instruction		English		
Semester of study	3		ECTS credits		2.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Transport Market -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Marcin Wolek, prof. UG				
	Teachers		dr hab. Marcin Wolek, prof. UG				
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						
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		12.0		23.0	50
Subject objectives	To introduce the student to the concept of sustainable urban mobility. To indicate relations between spatial planning and urban transport. To present the process of planning sustainable urban mobility and selected analytical methods. To introduce the student to the method of monitoring urban mobility plan.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[LMMU2_U06] can practically apply various forms and range of acquired knowledge in logistics and mobility, 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 [SU4] test/exam - oral or written
	[LMMU2_W07] has a knowledge of economic and financial principles governing the functioning and management of economic entities and organisations, which require logistics support or provide logistics services, 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 analyzed in the process of planning sustainable mobility.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion
	[LMMU2_U08] can independently analyse logistics and mobility processes and systems, and can perform a theoretically deepened assessment of such processes and systems, using appropriately selected research method	The student can assess individual elements included in planning sustainable mobility.	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written
	[LMMU2_W03] has a knowledge of relations between economic entities and organisations functioning in the national, international and intercultural spheres; understands importance logistics and mobility for their operation	The student can identify the most important connections and stakeholders for sustainable mobility planning.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion
	[LMMU2_K03] inspires and organises preparation of projects in the field of logistics and mobility, 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 [SK4] test/exam - oral or written
	[LMMU2_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	Using economic instruments, the student can critically analyze strategic documents referring to sustainable mobility.	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written

Subject contents	1. Spatial Planning: A Prerequisite for Sustainable Urban Mobility Planning 1.1. Climate Change The Need for More Resilient Urban Systems 1.2. Relationships Between Spatial Planning: AvoidShiftImprove 1.3. Sustainable Spatial Planning 2. What Is Sustainable Urban Mobility Planning 2.1. From Transport Planning to Sustainable Mobility Planning 2.2. EU Regulatory Framework 2.3. Sustainable Urban Mobility Plans (SUMP) as a Local Policy Tool 3. The Sustainable Urban Mobility Planning Process 3.1. Stakeholder Identification and Diagnosis 3.2. Scenario Development 3.3. Vision, Objectives, and Action Plan 3.4. Monitoring and Evaluation 4. Public Transport The Backbone of Sustainable Urban Mobility 4.1. Public Transport and Urban Development 4.2. Demand for Public Transport 4.3. Public Transport Modes and Their Characteristics 4.4. New Trends in Public Transport 5. Active Mobility 5.1. Characteristics of Bicycle Travel 5.2. Characteristics of Pedestrian Mobility 5.3. Micromobility 5.4. Measuring Active Mobility Challenges 6. The Car in the City 6.1. Consequences of Increasing Motorization 6.2. Traffic Optimization 6.3. Reducing the Environmental Impact of Cars 6.4. Electrification of the Automotive Sector 7. Urban Logistics and Freight Transport 7.1. The Essence of Urban Logistics 7.2. New Solutions and Trends in Urban Logistics 7.3. Freight Transport and the City: The Case of Port Cities During consultations, individual student questions will be discussed, doubts clarified, and additional information related to the course content will be provided based on the results of ongoing projects such as SUMPs for BSR (Interreg Baltic Sea Region) and SPINE (Horizon Europe).		
Prerequisites and co-requisites	Macroeconomics, Market Research and Analysis for Logistics and Mobility		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written exam	51.0%	100.0%
Recommended reading	Basic literature 1. 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 2. M. Wolek, A. Jagiełło: Monitoring and Evaluation framework for effective sustainable urban mobility planning. SUMPs for BSR project, co-funded by Interreg Baltic Sea Region. University of Gdańsk. 3. M. Wolek 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. Jan Gehl: Cities for People. Island Press, 2010 Selected articles from journals, including "Transportation Research", "Journal of Cleaner Production", "Sustainability", "Energies", "Sustainable Cities and Society".		

	Supplementary literature	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 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 3. R. Papa et. al.: Smart Planning: Sustainability and Mobility in the Age of Change. 2018 Cham: Springer International Publishing
	eResources addresses	
Example issues/ example questions/ tasks being completed	analysing sustainable urban mobility planning process analysing the completeness of the sustainable urban mobility monitoring the basic elements of the stakeholder's analysis process	
Work placement	Not applicable	

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