

Subject card

Subject name and code	Sustainable Cities, PG_00178098						
Field of study	Logistics and Mobility						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group				
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		English English		
Semester of study	3		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Marcin Wolek				
	Teachers		dr hab. Marcin Wolek dr Agnieszka Szmelter-Jarosz dr Maria Matusiewicz				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	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		0.0	30
Subject objectives	1. Understanding contemporary challenges of sustainable urban development, particularly in economic, social, environmental, and technological contexts. 2. Developing analytical and strategic skills enabling the design, evaluation, and implementation of urban sustainable development policies, taking into account various stakeholders and dimensions (economic, social, environmental, technological).						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[LMMU2_W07] has an in-depth 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 has knowledge of urban management structures and the division of responsibilities in relation to selected areas of city functioning, particularly in the field of transport and logistics.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[LMMU2_U01] can creatively interpret and explain economic and social phenomena and relations between them, using acquired knowledge of economics, finance, management sciences, logistics and mobility	The student is able to analyze complex socio-economic phenomena occurring in cities in the context of global and local challenges of sustainable development.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[LMMU2_U07] can independently propose solutions to complex logistics and mobility problems, select methods of analysis and conduct conclusive procedures in this respect	The student is able to prepare and present issues related to sustainable cities in a way that is understandable to a diverse audience, using appropriate theoretical approaches.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[LMMU2_K05] correctly identifies, diagnoses and solves dilemmas and alternative solutions related to the profession	The student is able to identify and resolve dilemmas and various solution options, taking into account the concept of sustainable development, related to the practice of a profession that is connected with the functioning of the city.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
	[LMMU2_W01] has an in-depth knowledge of the nature of social sciences and their place in the system of sciences; understands the differences between contemporary trends in theory of logistics and mobility	The student understands the differences between contemporary trends in logistics and mobility theory that influence the functioning of urban areas.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[LMMU2_K01] recognises the importance of knowledge in the field of logistics and mobility in the process of identifying and solving work-related problems and of consulting experts when having difficulties in solving them independently	The student recognizes the importance of knowledge in the field of logistics and mobility for solving urban problems and is able to consult with experts in this field.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report

Subject contents	1. The process of urban development
	1.1. Cities in a historic context
	1.2. Process of urban growth: industrial cities
	1.3. Process of urban growth: post-industrial cities, resilient and sustainable cities
	2. City as a system
	2.1. Functions of the city
	2.2. Stakeholders in the city
	2.3. Conflicts in the city
	3. Cities: between micro and macro levels of economics
	3.1. Theories of local economic development
	3.2. Economic models of urban structure
	3.3. Drivers of local economic performance
	4. Urban competitiveness
	4.1. Defining urban competitiveness
	4.2. Quality of life
	4.3. Workshop: Review of rankings of urban competitiveness
	5. Strategy of development - programming development of the sustainable city
	5.1. Strategic planning
	5.2. Selected methods of strategic planning
	5.3. Workshop: Review of selected strategies of development
	6. Scenarios of sustainable urban development
	6.1. The scenario concept
	6.2. Scenarios in urban planning & development
	6.3. Workshop: Evaluation of scenarios
	7. Selected urban systems: housing

7.1. Real estate market
7.2. Housing policy
7.3. Housing and architectural design
8. Selected urban systems: logistics and mobility
8.1. Urban transport system
8.2. Urban goods mobility
8.3. Urban passenger mobility
9. Selected urban systems: public utilities
9.1. Water supply
9.2. Sewage management
9.3. Heating and energy
10. Urban environmental policy
10.1. Environmental impact of urban development
10.2. Environmental limits of growth
10.3. Scenarios of the environmental adjustment - workshop
11. Urban transformations
11.1. The nature of the urban space
11.2. The transformation processes
11.3. Workshop - evaluation of the selected cases on urban transformations
12. Excursion - urban transformation in practice: from public transport depot to the Science and Technology Park in Gdynia
13. Challenges of urbanised world
13.1. Challenges facing contemporary cities
13.2. Models of the future city
13.3. Metropolisation

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Attendance rate	75.0%	25.0%
	Project presentation	65.0%	75.0%
Recommended reading	Basic literature	1. P. Newman, T. Neatley, H. Boyer: Resilient cities: responding to peak oil and climate change. Island Press, Washington 2009 2. Global Competitiveness Reports by World Economic Forum, current issues. 3. M. Wolek, K. Hebel: The Quality of Life in Sustainable Urban Mobility Planning. The Case Study of the Polish City of Piotrków Trybunalski [In:] RESEARCH PAPERS OF WROCLAW UNIVERSITY OF ECONOMICS AND BUSINESS 2019, vol. 63, nr 10	
	Supplementary literature	Selected papers in journal "Sustainable Cities and Society".	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Comparative analysis of modern urban concepts. 2. Review and evaluation of city quality of life rankings. 3. Comparative analysis of selected cities striving for zero emissions. 4. Comparative analysis of public transport systems in selected cities. 5. Comparative analysis of housing policies in selected cities. 6. Scenarios in development planning based on the example of a selected city. 7. Adaptation to climate change based on the example of a selected city. 8. Factors of metropolization in a selected city.		
Work placement	Not applicable		

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