

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	4		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	To introduce the student to the concept of sustainable urban development. To indicate relations between different stakeholders in the city. To introduce the student to the selected areas of urban development.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[LMMU2_W08] has an in-depth knowledge of main and logistics processes occurring in enterprises and economic organisations and with related areas, as well as of processes of change in public institutions; knows methods of research on the regularities governing these changes, taking into account the influence of external stakeholders on them	Student knows and understands the fundamental dilemmas of contemporary cities, including the strategy of sustainable development, smart and resilient city concepts as well as basic concepts of sustainable urban mobility planning and city logistics.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[LMMU2_K06] is ready to observe and develop in his/her professional life principles of business ethics and corporate social responsibility, respect others, be loyal to their employer, taking into account changing social needs.	The student is prepared to make professional decisions consistent with the principles of ethics and corporate social responsibility in the context of sustainable development. They demonstrate respect for stakeholders and loyalty to organizations pursuing sustainable development goals, particularly at the urban level.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
	[LMMU2_U14] can appropriately identify priorities and plan and organise tasks related to their implementation, as well as monitor and assess progress	The student is able to set priorities and plan, organize, and monitor activities related to the functioning of cities in the context of environmental and business challenges.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[LMMU2_U02] can use acquired knowledge to describe and analyse the causes and course of logistics and mobility processes and systems, and can formulate his/her own opinions and critically select data and analysis methods based on the achievements of economic and social sciences	Based on a diverse set of research tools from the economic and social sciences, students will be able to describe and analyze the causes and course of processes affecting the functioning of cities.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[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 is able to assess individual elements and processes affecting the functioning of modern cities.	[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_U10] has an advanced ability to prepare specialist oral presentations on logistics and mobility issues, using specialist theoretical approaches, the principles of collecting various sources of data, their description and interpretation, and drawing conclusions based on scientific literature; can prepare and conduct a debate	Student can take an active part in a debate on urban challenges, presenting his/her own viewpoint and supporting it with argumentation based on selected theories, opinions of various authors and/or statistical data related to cities.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU8] observation of student's independent or team work
	[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 is able to prepare and evaluate individual elements of strategic and operational documents relating to the functioning of cities.	[SK1] oral statement/conversation/ discussion [SK2] 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 independently select a specific analytical method for proposing a complex problem related to practical activities in the city, taking into account the concept of sustainable development.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report

	Course outcome	Subject outcome	Method of verification
	[LMMU2_U04] can forecast and model complex economic and social processes, as well as logistics and mobility processes and systems using quantitative and qualitative methods and tools developed by economic sciences (including statistics and econometrics)	The student is able to analyze and predict the impact of external factors on the functioning of cities. In doing so, they take into account environmental, technological, and organizational variables in the context of sustainable development.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[LMMU2_U15] can independently expand and improve acquired knowledge and skills in logistics and mobility; is open to new ideas and techniques; tends to learn using any accessible method and to interact with other participants of the learning process	Students independently expand and improve their acquired knowledge and skills in relation to the functioning of cities, taking into account the concept of sustainable development.	[SU1] oral statement/conversation/discussion [SU2] 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_W03] has an in-depth 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 is able to identify the most important connections and stakeholders necessary for the process of urban development.	[SW1] oral statement/conversation/discussion [SW2] 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

	Expanding specialist knowledge and solving problems in interpreting issues raised in class will be undertaken during consultations.		
Prerequisites and co-requisites	Interests related to sustainable development. Possibility of additional consultations for 5 hours.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Attendance rate	75.0%	25.0%
	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 journals "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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