

Subject card

Subject name and code	Sustainable Cities, PG_00202515						
Field of study	Economics, International Economic Relations, International Business, 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 Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		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				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	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		95.0	125
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
	[MSGGL3_U01] can correctly interpret and explain economic and social phenomena, analyse their causes, course and connections between these phenomena using the acquired knowledge of economics, finance and international economic relations	The student is able to correctly interpret and explain economic and social phenomena occurring in cities, analyze their causes, course, and interrelationships, using their knowledge of economics, finance, and international economic relations.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[IBL3_W01] has knowledge of the discipline of economics and finance, involving critical understanding of theories of international business	The student possesses knowledge in the fields of economics and finance in relation to the sustainable development of cities of different sizes, including in an international context.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[MSGMU2_U01] can creatively interpret and explain complex and atypical economic phenomena and the relations occurring between them, using the acquired knowledge in economics, finance and international economic relations	The student is able to creatively interpret and explain complex and atypical economic phenomena occurring in cities, as well as the relationships between them, using their knowledge of economics, finance, and international economic relations.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[EKONMU2_U01] can creatively interpret and explain economic and social phenomena and relations between them, using acquired knowledge of economics, finance and management sciences	The student is able to creatively interpret and explain economic and social phenomena, as well as the relationships between these phenomena, relating to the sustainable development of cities of different sizes, using their knowledge of economics, finance, and management sciences.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[MSGMU2_W01] has an in-depth and structured knowledge of economic sciences, in particular economics, its place in the system of sciences, its relations with other sciences and fields of knowledge	The student has in-depth and well-structured knowledge in the field of economic sciences, particularly economics, its place within the system of sciences, and its relationships with other sciences and fields of knowledge in relation to the sustainable development of cities of different sizes.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[MSGMU2_K01] is ready to recognise the importance of knowledge of economics in the process of identifying and solving problems in the area of international economic relations and to consult experts in case of difficulties in solving them independently	The student is prepared to recognize the importance of knowledge in economics in the process of identifying and solving problems relevant to the sustainable development of cities (also in an international context), as well as to seek expert opinions when difficulties arise in solving them independently.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[MSGGL3_K01] is ready to recognise the importance of knowledge in the field of economics in the process of identifying and solving economic problems and to consult experts in case of difficulties in solving them independently	The student is prepared to recognize the importance of knowledge in economics in the process of identifying and solving economic problems relevant to the sustainable development of cities, as well as to seek expert opinions when difficulties arise in solving them independently.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[IBMU2_U01] can creatively interpret, explain and analyse complex economic phenomena and the relations occurring between them, using the acquired knowledge in international business and international economic and financial relations	The student is able to creatively interpret, explain, and analyze complex economic phenomena relevant to the sustainable development of cities and the relationships between them, using the acquired knowledge of international business as well as international economic and financial relations.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[EKONL3_K01] recognises the importance of economic knowledge in identifying and solving economic problems and of consulting experts when difficulties in solving them independently	The student recognizes the importance of knowledge in economics in the process of identifying and solving economic problems relevant to the sustainable development of cities, as well as seeking expert opinions when difficulties arise in solving them independently.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report

Course outcome	Subject outcome	Method of verification
[EKONMU2_W02] has an in-depth knowledge of various types of existing economic entities and organisations as well as an extended knowledge of public institutions	The student has in-depth knowledge of various types of existing business entities and organizations that have a significant impact on the functioning and sustainable development of cities, as well as extended knowledge of municipal public institutions.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
[EKONL3_U01] can correctly interpret economic and social phenomena and apply knowledge of economics, finance and management sciences to explain economic phenomena	The student is able to correctly interpret economic and social phenomena occurring in cities of different sizes and apply knowledge of economics, finance, and management sciences to explain them.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[EKONMU2_K01] recognises the importance of knowledge in the field of economics in the process of identifying and solving economic problems and of consulting experts when having difficulties in solving them independently	The student recognizes the importance of knowledge in economics in the process of identifying and solving economic problems occurring in cities of different sizes, as well as seeking expert opinions when difficulties arise in solving them independently.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[EKONL3_W02] has an advanced knowledge of the different types of existing business entities and organisations and public institutions	The student has advanced knowledge of various types of existing business entities, organizations, and public institutions that are important for the sustainable development of cities of different sizes.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
[IBMU2_W01] has an in-depth knowledge of the discipline of economics and finance; understands the differences between contemporary trends in the theory of international business	The student has in-depth knowledge in the discipline of economics and finance with regard to issues related to the sustainable development of cities, including in an international context.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
[MSGL3_W01] has an advanced knowledge of economic sciences, in particular of economics and its place in the system of sciences, including within related disciplines	The student has advanced knowledge in the field of economic sciences, particularly economics and its place within the system of sciences, including related scientific disciplines in relation to the sustainable development of urban areas.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
[IBL3_K01] is ready to recognise the importance of knowledge in the field of international business in identifying and solving business theoretical and practical issues; is ready to consult with experts in case of facing difficulties in solving business issues individually	The student is prepared to recognize the importance of knowledge in the field of international business in identifying and solving theoretical and practical problems occurring in cities; is prepared to consult experts when encountering difficulties in independently solving such problems.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[IBL3_U01] can interpret and explain economic phenomena, analyse their causes, course and connections within these phenomena using the acquired knowledge of international business, economics and finance and complementary disciplines	The student is able to interpret and explain economic phenomena occurring in cities, analyze their causes, course, and interrelationships, using the acquired knowledge of international business, economics, finance, and related fields.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[LMMU2_W02] has a knowledge of various types of economic entities and organisations, which require logistics support or provide logistics services as well as an extended knowledge of public institutions	The student has knowledge of various types of business entities and organizations that require logistics support while operating in cities or provide logistics services to urban stakeholders, as well as extended knowledge of municipal public institutions.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report

	Course outcome	Subject outcome	Method of verification
	[IBMU2_K01] Is ready to recognise the importance of knowledge of international business in the process of identifying and solving business problems and the need to consult experts in cases of complex issues	The student is prepared to recognize the importance of knowledge of international business in the process of identifying and solving business problems related to the sustainable development of cities of different sizes, as well as the need to consult experts in the case of complex issues.	[SK1] oral statement/conversation/discussion [SK2] 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_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
	Project presentation	65.0%	75.0%
	Attendance rate	75.0%	25.0%
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. Climate Change 2023. Synthesis Report Summary for Policymakers. A Report of the Intergovernmental Panel on Climate Change. 4. M. Szkoda Maciej, M. Michnej, A. Jagiełło, M. Wołek [i in.], Is the Concept of a 15-Minute City Feasible in a Medium-Sized City? Spatial Analysis of the Accessibility of Municipal Services in Koszalin (Poland) Using GIS Modelling. Sustainability 2025, vol. 17, nr 22, s.1-26, DOI: 10.3390/su172210157	
	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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