

Subject card

Subject name and code	Sustainable cities, PG_00177606						
Field of study	International Business						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	Bachelor'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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Maria Matusiewicz				
	Teachers		dr hab. Marcin Wolek dr Jarosław Kempa prof. dr hab. Jacek Zaucha				
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		0.0	30
Subject objectives	<						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[IBL3_U07] can take part in a debate, is able to present, evaluate and discuss various viewpoints in the field of international business	The student is able to participate in debates on urban policies, presenting various perspectives on sustainable development.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[IBL3_U05] can identify and evaluate selected risks related to international business	The student is able to recognize risks associated with planning and implementing sustainable urban development strategies.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[IBL3_U02] can formulate and solve complex and nonstandard issues in international business by employing quantitative and qualitative research methods and tools, as well as advanced communication and information techniques applicable in the field of international business, economics and finance	The student is able to identify problems related to urban development and formulate proposals for solutions using appropriate analytical tools.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[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 analyse and interpret socio-economic phenomena occurring in cities, in the context of their sustainable development.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[IBL3_K03] is ready to take part in co-organizing activities for social environment and fulfil social obligations of international business stakeholders	The student demonstrates readiness to actively co-create initiatives supporting the sustainable development of local urban communities.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report [SK4] test/exam - oral or written
	[IBL3_U09] is able to work individually and within teams, also of interdisciplinary character; can plan and organize own tasks and the works of teams	The student is able to work effectively individually and in teams on urban projects that take into account sustainable development goals.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[IBL3_K05] is ready to perform professional role in responsible manner, abide business ethics and business standards in working environment	The student is able to analyze the challenges of sustainable urban development taking into account ethical professional standards and social responsibility.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report [SK4] test/exam - oral or written [SK8] observation of student's independent or team work
	[IBL3_W01] has knowledge of the discipline of economics and finance, involving critical understanding of theories of international business	The student understands the economic foundations of sustainable cities and is able to relate them to the theory of international business.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion
	[IBL3_W04] has a structured knowledge of the world economy, international economic and financial processes and their role in shaping the international business environment	The student knows the relationships between global economic processes and the development of sustainable cities in various international contexts.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[IBL3_W06] knows and understands the relations and regularities between international business stakeholders i.a. business entities, public institutions, organisations; functioning in the national, international and intercultural realms	The student understands the role of various stakeholders – public, private and social – in shaping sustainable urban development.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[IBL3_W07] knows and understands fundamental dilemmas of contemporary world economy; understands the necessity of sustainable development and corporate social responsibility	The student is able to explain the key dilemmas related to the global development of cities and the importance of implementing the principles of sustainable development.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[IBL3_W08] knows and understands principles of economic decision making by individuals acting within social and business structures	The student knows the mechanisms of decision-making by urban actors and their impact on the sustainable transformation of cities.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report

Subject contents	1. Introduction to Sustainable Urban Development • The concept of sustainable cities: definitions, goals, theoretical frameworks (SDGs, New Urban Agenda) • Contemporary urban challenges (climate, mobility, demography, inequalities) 2. Sustainable urban mobility • Urban mobility planning (SUMP) • Analysis of user behavior and needs of different social groups • Sustainable public transport: integration, efficiency, electrification, digital twin 3. Sustainable urban logistics • Stakeholders and cooperation models in the urban supply chain • Sustainable Urban Logistics Plans (SULP) • Last mile logistics and Physical Internet (PI) • Consolidation centers and logistics support infrastructure 4. Spatial planning and urban development • Spatial conditions of transport and logistics • Metropolitan development and management of spatial conflicts • Infrastructure as a tool development and spatial integration 5. Urban policies and urban management • Local urban policies towards climate challenges (including logistics and mobility) • Evaluation and monitoring of public policies (including logistics and mobility) • Integrated management: cross-sectoral approach to urban policy 6. Spatial justice and participation • Social justice in access to space and services • Social participation in urban planning and management • Transferring experiences from maritime planning to the urban context (e.g. participatory spatial management) 7. Technologies and innovations in urban management • Technologies in transport and logistics: in-motion charging, ITS systems, digital twin • The role of data and digitalization in planning and operationalizing urban policies • Smart city vs. sustainable city: integration of technologies with environmental and social goals Deepening knowledge and solving problems in the interpretation of issues discussed during classes will be undertaken during consultations.											
Prerequisites and co-requisites												
Assessment methods and criteria	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>participation in classes (attendance and activity)</td><td>51.0%</td><td>50.0%</td></tr><tr><td>exam (closed and open questions)</td><td>51.0%</td><td>50.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade	participation in classes (attendance and activity)	51.0%	50.0%	exam (closed and open questions)	51.0%	50.0%		
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Recommended reading	Basic literature	City Logistics and Physical Internet • Matusiewicz, M. (2024). <i>Framework for Physical Internet deployment in cities</i>. Urban, Planning and Transport Research, 12. https://doi.org/10.1080/21650020.2024.2303341 • Matusiewicz, M. (2020). <i>Logistics of the future Physical Internet and its practicality</i>. Transportation Journal, 59(2). https://doi.org/10.5325/transportationj.59.2.0200 Sustainable mobility and urban planning • Wolek, M., Jagiełło, A., & Szmelter-Jarosz, A. (2024). <i>Draft framework for Monitoring and evaluation for sustainable urban mobility: deliverable 1.1 of SUMPs for BSR project</i>. https://interreg-baltic.eu/... • Matusiewicz, M., & Wierzbowska-Kujda, M. (2023). <i>Jak opracować dobry plan zrównoważonej mobilności miejskiej?</i> https://www.teraz-srodowisko.pl/... Practice and barriers to implementing sustainable solutions • Matusiewicz, M. (2024). <i>Shared logistics a clash with reality: results of a survey...</i> Transportation Research Procedia, 79. https://doi.org/10.1016/j.trpro.2024.03.010 • Wolek, M., Jagiełło, A., & Wolański, M. (2021). <i>Multi-criteria analysis in the decision-making process on the electrification of public transport...</i> Energies, 14(19). https://doi.org/10.3390/en14196391 In the field of spatial planning and territorial development (for the metropolitan context) • Kempa, J. (2018). <i>Strategic conditions for the development of Tri-city: Conflicts and cooperation in the context of the metropolitan act</i>. Współczesna Gospodarka, 9(3). https://doi.org/10.26881/wg.2018.3.05 • Zaucha, J. (2024). <i>Public policies for territorial cohesion</i> (recenzja książki). Regional Studies, 58. https://doi.org/10.1080/00343404.2023.2273114
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	Supplementary literature	Additional case studies and practical aspects • Matusiewicz, M., & Rolbiecki, R. (2021). <i>The tendency of city stakeholders to implement sustainable logistics measures...</i> Zeszyty Naukowe / Akademia Morska W Szczecinie. https://doi.org/10.17402/470 • Wołek, M., Wolański, M., Bartłomiejczyk, M., et al. (2021). <i>Ensuring sustainable development of urban public transport: the case of Gdynia and Sopot</i>. Journal of Cleaner Production, 279. https://doi.org/10.1016/j.jclepro.2020.123807 Urban planning theory and strategy • Matusiewicz, M. (2022). <i>Logistyka miejska w świetle idei zrównoważonego rozwoju</i>. Wyd. UG. • Wołek, M., Gromadzki, M., & Jagiełło, A. (2021). <i>Dzielnicowe, miejskie i metropolitalne plany zrównoważonej mobilności...</i> Wyd. UG. Social and territorial aspects • Kempa, J. (2018). <i>Strategic conditions for the development of Tri-city...</i> Współczesna Gospodarka, 9(3). https://doi.org/10.26881/wg.2018.3.05 • Zaucha, J. et al. (2025). <i>Exploring social justice in marine spatial planning...</i> Journal of Environmental Planning and Management, 68(5). https://doi.org/10.1080/09640568.2023.2279512 Popularizing publications and expert commentaries • Matusiewicz, M., & Wierzbowska-Kujda, M. (2023). <i>Usprawnienie logistyki w miastach powinno obchodzić wszystkich</i>. https://www.teraz-srodowisko.pl/...
	eResources addresses	

Example issues/ example questions/ tasks being completed	Introduction to City Logistics Definitions and Scope of City Logistics The Role of Logistics in City Functioning City Logistics Challenges in the Age of Urbanization and E-Commerce Sustainable Development and Urban Mobility What is Sustainable Mobility? The role of public transport, bicycles, micromobility Emissions, noise and quality of life in cities Planning and implementation of mobility plans SUMP (Sustainable Urban Mobility Plan) methodology and stages The role of stakeholders in planning (authorities, residents, companies) Monitoring and evaluation of activities Innovations in urban logistics Physical Internet, city hubs, consolidation of deliveries Shared logistics theory and practice New models of last mile deliveries (e.g. cargo bike, drones, robots) Traffic and space management in the city Parking policy, delivery zones, quiet logistics Multifunctional streets and shared space ITS and Smart City solutions in freight traffic management The impact of territorial development on logistics and mobility City sprawl and suburbanization The role of spatial planning in shaping mobility Metropolitan cooperation and integrated planning Implementation cases and good practices (case studies) Gdynia and Sulp: case study Amsterdam, Barcelona, Stockholm models of sustainable mobility EU projects (e.g. CIVITAS, SumpS for BSR) Public policies and financing EU funds for sustainable transport Strategic documents: Green Deal, Fit for 55, KPO National laws and local transport plans
Work placement	Not applicable

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