

Subject card

Subject name and code	Mobility Challenges in Urban Logistics, PG_00178092						
Field of study	International Business						
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		
Semester of study	3		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Transport Market -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Aleksander Jagiełło				
	Teachers		dr Aleksander Jagiełło dr hab. Krzysztof Grzelec dr hab. Dariusz Tłoczyński				
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	Acquisition by the student of knowledge about mobility in city logistics						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[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		He/she is able to creatively interpret, explain, and analyze complex economic phenomena and the relationships between them, using acquired knowledge in the field of urban logistics and mobility.		[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report		
	[IBMU2_W02] knows and understands methods and tools for describing economic phenomena, including data acquisition techniques, which make it possible to describe and analyse business entities functioning on the international market as well as processes and phenomena occurring in them and between them		He/she knows and understands the methods and tools used to describe economic phenomena, including data collection techniques that enable the description and analysis of economic entities operating in the urban logistics and mobility market.		[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report		
	[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		He/she is ready to recognize the importance of knowledge in international business in the process of identifying and solving decision-making problems in the field of urban logistics and mobility.		[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report		

Subject contents	1.City as a complex system 1.1.Process of urban development 1.2.Challenges of urban development 1.3.The concept of smart city 2.Urban logistics as a solution toward challenges 2.1.Urban logistics system 2.2.Urban goods mobility 2.3.Urban passenger mobility 3.Planning Sustainable Urban Logistics 3.1.The concept of sustainable urban logistics 3.2.The city and the freight 3.3.Urban logistics infrastructure 4.Planning Sustainable Urban Mobility 4.1.Sustainable urban mobility policy 4.2.Sustainable Urban Mobility Plans (SUMP) as a local policy tool 4.3.Evaluation of the selected SUMPs 5.Non-motorised transport as an element of sustainable urban mobility 5.1.The concept of walkability 5.2.Cycling 5.3.Planning integrated infrastructure for active mobility 6.Transport Demand Management as an element of sustainable urban mobility 6.1.The concept of TDM 6.2.Selected issues of the TDM 6.3.Selected case studies of the TDM 7.Public transport as an element of sustainable mobility 7.1.Public transport as a subsystem of the modern city 7.2.Challenges facing public transport 7.3.Modern concepts of public transport 8.Organisation and management of public transport in cities 8.1.Models of public transport organization 8.2.Managerial aspects of public transport in cities 8.3.Evaluation of selected case studies of management in public transport 9.Supply of the public transport 9.1.Infrastructure of the public transport 9.2.Rolling stock 9.3.Electrification of the public transport 10.Demand for the public transport 10.1.Features of demand in public transport 10.2.Research of the demand in public transport 10.3.Transport behaviour and preferences 11.Costs and pricing policy in public transport 11.1.Costs of public transport 11.2.Pricing policy in public transport 11.3.Free public transport - really for free? 12.Airport - gateway to the city 12.1.Airport catchment area 12.2.Direct and indirect connections 12.3.Time slot allocation 13.Airports links as an element of urban & regional transport system 13.1.Rail airports link 13.2.Bus airports link 13.3.Car parking operators at airports 14.Port cities 14.1.Relations between port and city 14.2.Evolution of ports 14.3.Transformation of post-harbor space		
Prerequisites and co-requisites	Podstawowa wiedza z zakresu transportu		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	The presentations on mobility challenges in urban logistics subject will be the basis for the assessment of the student's performance (the topics will be individually discussed during lecture).	51.0%	100.0%
Recommended reading	Basic literature	J. Ricart Costa, A. Duch T-Figueras, P. Berrone, Cities and Mobility & Transportation: Towards the Next Generation of Urban Mobility, Createspace Independent Publishing Platform, 2016 A. Jagiełło, Economic Efficiency of Sustainable Public Transport: A Literature Review on Electric and Diesel Buses, Energies, 2025 K. Grzelec, K. Hebel, O. Wyszomirski, Zarządzanie zbiorowym transportem miejskim w warunkach polityki zrównoważonej mobilności, Wyd. UG, 2020 D. Tłoczyński, A. Hozzman, P. Zagrajek, Transport lotniczy w warunkach globalnej mobilności, Wyd. UG, 2021	
	Supplementary literature	M. Finck, M. Lamping, V. Moscon, H. Richter, Smart Urban Mobility: Law, Regulation, and Policy, Springer, 2020 M. Browne, J. Holgiun-Veras, J. Woxenius, S. Behrends, G. Giuliano, Urban Logistics: Management, Policy and Innovation in a Rapidly Changing Environment, 2018 A. Graham, N. Adler, H.M. Niemeier, O. Betancor and other, Air transport and development policies, Reaultledge, 2021	
	eResources addresses		
	Example issues/ example questions/ tasks being completed		
Work placement	Not applicable		

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