

Subject card

Subject name and code	Mobility Challenges in Urban Logistics, PG_00178092						
Field of study	Economics, International Economic Relations, 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		English		
Semester of study	5		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
	[EKONL3_K02] is aware of the level of knowledge in the field of economics and understands the need to deepen and update this knowledge throughout life	He/she is aware of the level of his/her knowledge in the area of urban mobility and understands the need to continuously deepen and update this knowledge throughout life.	[SK1] oral statement/conversation/discussion [SK2] 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	He/she is able to correctly interpret economic and social phenomena occurring in the sector of mobility and urban logistics and to apply knowledge from economics, finance, and management sciences to explain these phenomena.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[EKONL3_U02] is able to use the knowledge of theory and data to analyse concrete economic and social processes and phenomena and to analyse these phenomena using methods developed in economics, finance and management sciences	He/she is able to apply theoretical knowledge and gather data to analyze specific economic and social processes and phenomena occurring in the sector of mobility and urban logistics, as well as to analyze these phenomena using methods developed in economics, finance, and management sciences.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[IBL3_K02] is ready to critically assess own knowledge in the field of international business, economics and finance and complementary disciplines	He/she is prepared to critically evaluate his/her own knowledge in the field of mobility and urban logistics.	[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	He/she is able to interpret and explain economic phenomena occurring in the sector of mobility and urban logistics, analyze their causes, development, and interrelations, using acquired knowledge in international business, economics, finance, and related fields.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[MSG3_K02] critically assesses the level of his/her knowledge in the field of economics; is willing to deepen and update this knowledge throughout his/her life	He/she critically assesses the level of his/her knowledge in the field of urban mobility and understands the need to continuously deepen and update this knowledge throughout life.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[MSG3_U04] uses the acquired theoretical knowledge in economics to analyse and evaluate the operation of economic entities on the international market, with particular emphasis on the European Union market	He/she applies theoretical knowledge in economics to analyze and assess the functioning of economic entities in the urban mobility and logistics market, with particular emphasis on the European Union market.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[MSG3_W09] has knowledge about a human being as an individual making economic decisions, acting within social structures and organisational units (in particular enterprises) or conducting individual economic activity	He/she has knowledge of the human being as an economic decision-maker, functioning within social structures and organizational units, particularly within enterprises or as a self-employed individual in the sector of mobility and urban logistics.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[MSG3_W02] has an advanced knowledge and understanding of the terminology of international economic relations and complementary disciplines	He/she knows and understands advanced terminology in the field of urban mobility.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[EKONL3_W02] has advanced knowledge of the different types of existing business entities and organisations and public institutions	He/she has advanced knowledge of the various types of existing economic entities and organizations, as well as public institutions operating in the field of mobility and urban logistics.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[IBL3_W02] knows and understands fundamental concepts and terminology of international business, international economic and financial relations and complementary disciplines	He/she knows and understands the basic concepts and terminology related to mobility and urban logistics.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report

	<table><tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr><tr><td>[EKONL3_U08] has the ability to observe, understand and analyse economic and social phenomena and processes using appropriate scientific methods</td><td>He/she possesses the ability to observe, understand, and analyze economic and social phenomena and processes occurring in the sector of mobility and urban logistics using appropriate scientific methods.</td><td>[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report</td></tr></table>	Course outcome	Subject outcome	Method of verification	[EKONL3_U08] has the ability to observe, understand and analyse economic and social phenomena and processes using appropriate scientific methods	He/she possesses the ability to observe, understand, and analyze economic and social phenomena and processes occurring in the sector of mobility and urban logistics using appropriate scientific methods.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report		
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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	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>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).</td><td>51.0%</td><td>100.0%</td></tr></table>	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%		
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Recommended reading	<table><tr><td>Basic literature</td><td>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. Jagielło, 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</td></tr><tr><td>Supplementary literature</td><td>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</td></tr><tr><td>eResources addresses</td><td></td></tr></table>	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. Jagielło, 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			
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Example issues/ example questions/ tasks being completed									

Work placement	Not applicable
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