

Subject card

Subject name and code	Mobility Challenges in Urban Logistics, PG_00202514						
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	Department of Transport Market -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Aleksander Jagiello				
	Teachers		dr Aleksander Jagiello				
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	Acquisition by the student of knowledge about mobility in city logistics						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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	Can interpret and explain economic phenomena, analyze their causes, course, and interrelationships, using acquired knowledge of international business, economics and finance, and related fields.	[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	He/she recognizes the importance of economic knowledge in the process of identifying and solving economic problems in the sector of mobility and urban logistics, as well as the value of consulting experts when encountering difficulties in solving these problems independently.	[SK1] oral statement/conversation/discussion [SK2] 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	Recognizes the importance of knowledge of economics in the process of identifying and solving economic problems in the field of transport, and of seeking expert advice when facing difficulties in solving them independently.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[MSG3_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	Can correctly interpret and explain economic and social phenomena, analyze their causes, course, and interrelationships, using their knowledge of transport economics.	[SU1] oral statement/conversation/discussion [SU2] 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	He/she is able to creatively interpret and explain complex and atypical economic phenomena, as well as the relationships between them, using acquired knowledge in 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	He/she is able to creatively interpret and explain economic and social phenomena occurring in the sector of mobility and urban logistics, as well as the relationships between these phenomena, using acquired knowledge in 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	He/she has in-depth and 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.	[SW1] oral statement/conversation/discussion [SW2] 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	Recognizes the importance of knowledge in logistics and mobility in the process of identifying and solving decision-making problems.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[IBL3_W01] has knowledge of the discipline of economics and finance, involving critical understanding of theories of international business	Has knowledge of transport economics.	[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	Has in-depth knowledge of the discipline of economics and finance; understands the differences between contemporary trends in international business theory and transport economics.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report

Course outcome	Subject outcome	Method of verification
[MSGL3_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	Is ready to recognize the importance of knowledge of economics in the process of identifying and solving economic problems related to urban transport, and to seek expert advice when facing difficulties 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	Can creatively interpret, explain, and analyze complex economic phenomena and the relationships between them, using the knowledge acquired in the field of transport economics.	[SU1] oral statement/conversation/discussion [SU2] 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	Can correctly interpret economic and social phenomena and apply knowledge of economics, finance, and management sciences to explain economic phenomena.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
[EKONMU2_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 economic thought; knows the claims of contemporary economic theories	Has in-depth knowledge of the nature of social sciences and their place in the system of sciences, understands the differences between contemporary schools of economic thought, and knows the propositions of contemporary economic theories.	[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	Is ready to recognize the importance of knowledge of international business in the process of identifying and solving decision-making problems in the field of logistics and urban mobility.	[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	Can creatively interpret and explain economic and social phenomena in the field of logistics and urban mobility.	[SU1] oral statement/conversation/discussion [SU2] 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	Is ready to recognize the importance of knowledge of international business in identifying and solving theoretical and practical transport problems; is ready to consult experts when encountering difficulties in solving business problems independently.	[SK1] oral statement/conversation/discussion [SK2] 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	Has advanced knowledge of economic sciences, particularly economics and its place in the system of sciences, including within related scientific disciplines such as transport economics.	[SW1] oral statement/conversation/discussion [SW2] 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	Has in-depth knowledge of the nature of social sciences in the field of mobility and urban logistics.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
[EKONL3_W01] has advanced knowledge of the nature of social sciences, their place in the system of sciences, knows the role of economic sciences in this system and uses universal economic terminology	Has advanced knowledge of the nature of social sciences and their place in the system of sciences, understands the role of economic sciences within that system, and uses universal economic terminology, including terminology from transport economics.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report

	Course outcome	Subject outcome	Method of verification
	[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	He/she is ready to recognize the importance of economic knowledge in the process of identifying and solving problems in the sector of mobility and urban logistics.	[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. Hoszman, 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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