

Subject card

Subject name and code	Mobility Challenges in Urban Logistics, PG_00178092						
Field of study	Logistics and Mobility						
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				
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		
	[LMMU2_W02] has an in-depth 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		He/she has in-depth knowledge of various types of economic entities and organizations that require logistical support.		[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		He/she 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		
	[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		He/she has in-depth knowledge of the social science aspects related to mobility and urban logistics.		[SW1] oral statement/ conversation/discussion [SW2] 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		He/she is able to creatively interpret and explain economic and social phenomena in the field of urban logistics and mobility.		[SU1] oral statement/conversation/ discussion [SU2] 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 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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