

SYLLABUS academic year 2023/24Faculty of Economics University of Gdansk

Course title Mob	pility Challenges in Urban Logistics ECTS code 14.03.530								
				ECTS cre	edits 5				
	max. 20 students								
Name of unit administrating study KRT Field of study Economics/MSG** Field of specialisation NONE;									
Teaching staff Aleksander Jagiełło, Ph.D.; Katarzyna Hebel, Associate Professor; Krzysztof Grzelec, Associate Professor; Dariusz Tłoczyński, Associate Professor; Joanna Czerepko, Ph.D.									
Number of hours									
Lectures 30 Class	ses 0	Tutorials 0	Lab	oratory	0 Seminars 0	Language classes 0			
	Forma a	aktywności			Year&Type of studies*	3 SS1, 2 SS2,			
Hours with the participation of the academic teacher (including office hours, exams, others): Semester: 5, 3,									
Hours without the parti (student's self-study, h		academic teacher		38	Type of course:	optional			
Total number of hours:				76	Language of instruction:	English			
Teaching form	in-class learr	ning							
Teaching methods	Teaching methods Lectures including multimodal presentations, Discussion, questioning, Collaborating, group activities, Case studies, E-learning, Didactic games,								
	Prere	quisites (required o	ourses an	d introducto	ry requirements)				
Required courses	Transport Economics, Economics (Basic)								
Introductory requirements	, i								
		Assessment	method, f	orms and cr	iteria				
Assessment method	cent method Course completion (graded)								
Assessment criteria	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).								
	100-90% of the maximum number of points - 5 89-80% of the maximum number of points - 4+ 79-70% of the maximum number of points - 4 69-60% of the maximum number of points - 3+ 59-50% of the maximum number of points - 3 49-0% of the maximum number of points - 2								
Course objectives									
Acquisition by the student of knowledge about mobility in city logistics									
Learning outcomes									
Knowledge	E1_W03	has an in-depth knowledge of relations between transport companies							
	E1_W07	has an in-depth knowledge of economic and financial principles governing the functioning and management of transport companies							
MSG1_W02									
	MSG1_W06	has advanced knowledge of the functioning of transport and logistics companies							
	E2_W03	03 has an in-depth knowledge of relations between transport companies							
E2_W07 has an in-depth knowledge of economic and financial principle and management of transport companies						governing the functioning			
	MSG2_W02				tanding of the terminolog	y of transport, mobility			
	MSG2_W09 has an in-depth knowledge of selected areas of the functioning of a modern transport and logistic enterprises								

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			Verification	of learning	ng outcon	nes - Knov	vledge							
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project			
E1_W03							Х	Х	Х					
E1_W07							Х	X	Х					
MSG1_W02							Х	X	Х					
MSG1_W06							Х	Х	Х					
E2_W03							Х	X	Х					
E2_W07							Х	X	Х					
MSG2_W02							Х	Х	Х					
MSG2_W09							Х	Х	Х					
Skills	E1_U06	fin	n practically ance and m	nanageme	nt of tran	sport com	panies	-						
	E1_U08	an	can independently analyse economics of transport and social phenomena and processes, and can perform a theoretically deepened assessment of such phenomena											
	MSG1_U	assess their consequences correctly												
	MSG1_U	13 ca	n prepare p	resentatio	ons and o	ral speech	es on tra	nsport an	d mobility	issues				
	E2_U06		can practically apply various forms and range of acquired knowledge in economics, finance and management of transport companies											
	E2_U08		can independently analyse economics of transport and social phenomena and processes, and can perform a theoretically deepened assessment of such phenomena											
	MSG2_U		can identify selected risks related to operations of transport and logistics companies and assess their consequences correctly											
	MSG2_U14 can prepare presentations and oral speeches on transport and mobility issues Verification of learning outcomes - Skills						issues							
Outcomes	written exam	oral	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project			
E1_U06							Х	Х	Х					
E1_U08							Х	Х	Х					
MSG1_U06							Х	Х	Х					
MSG1_U13							Х	Х	Х					
E2_U06							Х	Х	Х					
E2_U08							Х	Х	Х					
MSG2_U06							Х	Х	Х					
MSG2_U14							Х	Х	Х					
Attitudes	E1_K03 inspires and organises preparation of economic and social projects, following the idea sustainable development, reconciling legal, economic, ecological, political and social requirements						cial							
	E1_K04	со	is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking											
	MSG1_K		rrectly iden lated to the			d solves o	dilemmas	and vario	ous option	s of soluti	ons			

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	E2_K03	susta	inspires and organises preparation of economic and social projects, following the idea of sustainable development, reconciling legal, economic, ecological, political and social requirements											
	E2_K04	11	is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking											
	MSG2_K	ll ll	correctly identifies, diagnoses and solves dilemmas and various options of solutions related to the profession											
		V	erification/	n of learni	ng outcor	nes - Atti	tudes							
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project			
E1_K03							X	X	Х					
E1_K04							X	Х	X					
MSG1_K05							Х	Х	Х					

Course contents

1.City as a complex system

E2_K03

E2 K04

MSG2 K06

- 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

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- 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

Recommended reading lists

Basic:

- 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

Additional:

- 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

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^{*} SS1- undergraduate studies * SS2 - graduate studies * SDang - doctoral studies

^{**} MSG - International Economic Relations