

SYLLABUS academic year 2024/25Faculty of Economics University of Gdansk

Course title Mob	ility Challenges in Urban Logistics ECTS code 14.03.536.					ode 14.03.5365		
	ECTS credits 5					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.								
		N	lumber of	hours				
Lectures 30 Clas	ses 0	es 0 Tutorials 0 Laboratory 0 Seminars 0 Language classe						
	Forma a	aktywności			Year&Type of studies*	3 SS1, 2 SS2,		
Hours with the participation of the academic teacher (including office hours, exams, others): 5, 3,								
Hours without the part (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		uding multimodal p , E-learning, Didact		ons, Discussi	on, questioning, Collabor	ating, group activities,		
	Prere	quisites (required c	ourses an	d introducto	ry requirements)			
Required courses								
Introductory requirements	, i							
		Assessment	method, f	orms and cr	iteria			
Assessment 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 stud	ent of knowled	ge about mobility ir	n city logis	stics				
		Le	arning ou	tcomes				
Knowledge	E1_W03	has an in-depth kn	owledge (of relations l	oetween transport compa	nies		
	E1_W07	has an in-depth kn and management o				overning the functioning		
MSG1_W02		has an advanced knowledge and understanding of the terminology of transport, mobility and logistics						
	MSG1_W06	has advanced know	wledge of	the function	ing of transport and logis	tics companies		
E2_W03		has an in-depth knowledge of relations between transport companies						
	E2_W07	has an in-depth kn and management o				overning the functioning		
	MSG2_W02	has an advanced k and logistics	nowledge	and unders	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					f a modern transport		

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			Verification	of learnin	ng outcon	nes - Knov	vledge				
Outcomes	written exam	oral	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	Х	Х		
MSG1_W02							Х	Х	X		
MSG1_W06							Х	Х	X		
E2_W03							Х	Х	Х		
E2_W07							Х	Х	Х		
MSG2_W02							Х	Х	Х		
MSG2_W09							Х	Х	Х		
Skills	E1_U06		can practically apply various forms and range of acquired knowledge in economics, finance and management of transport companies								
	E1_U08		n independend nd can perfo								ocesses,
	MSG1_U		n identify sessess their c				tions of t	ransport a	and logisti	cs compa	nies and
	MSG1_U	13 ca	n prepare p	resentatio	ons and o	ral speech	es on tra	nsport an	d mobility	issues	
	E2_U06		n practically nance and m					quired kno	owledge ir	n economi	cs,
	E2_U08		n independendende								ocesses,
	MSG2_U		n identify sessess their c				tions of t	ransport a	and logisti	cs compa	nies and
	MSG2_U	MSG2_U14 can prepare presentations and oral speeches on transport and mobility issues									
	Verification of learning outcomes - Skills										
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	su re	spires and constants	evelopme	nt, recond	iling legal	, econom	ic, ecolog	ical, politi	cal and so	cial
	E1_K04	со	ready to thi inditions; ur	ndertakes	challenge	s of creat	ive thinki	ng			
	MSG1_K		rrectly iden lated to the			d solves o	dilemmas	and vario	us option	s of soluti	ons

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	E2_K03	susta	ainable de						ojects, foll ical, politi		
	E2_K04	is rea		nk and ac					ts to new	situations	and
	MSG2_K		,	tifies, diag professio	•	d solves o	dilemmas	and vario	us option:	s of solution	ons
		V	erification	n of learni	ng outcor	nes - Atti	tudes				
Outcomes	written	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E1_K03							Х	Х	Х		

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1.City as a complex system

E1 K04

MSG1 K05

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