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

Course title	Logis	stics and Mobility Modelling ECTS code 14.3.EE.SZ.358										E.SZ.3580					
													EC	ECTS credits 4		4	
Name of unit admir	inistrating study KL Field of study Economics Field of specialisation L&N										L&M						
Teaching staff Cezary Mańkowski, Associate Professor																	
Number of hours																	
Lectures 0 (0 Classes 0 Tutorials 0 Lab							Labo	rato	ry	30 Seminars 0 Language class					asses 0	
Forma aktywności Year&Type of studies* 1 SS2,										52,							
Hours with the participation of the academic teacher (including office hours, exams, others):								g			Semester: 1,					r	
Hours without the participation of the academic teacher (student's self-study, homeworks):											Type of course:			obligatory			
Total number of ho	urs:									0	Language of instruction:			English			
Teaching form																	
Teaching method	Teaching methods Work in computer laboratories, Individual projects, Case studies,																
		Р	rere	quisit	es (requ	ired	course	es and	l inti	roductor	y req	uireme	nts)				
Required course	No requirements																
Introductory requirements General knowledge on menageral economics																	
Assessment method, forms and criteria																	
Assessment method Course completion (graded)																	
Assessment criteria Development of a graphic EPC model of a selected logistics or mobility process and written description of the model according to the EPC terminology. The main assessment criteria include: 1) correctness of the graphic model and its written description; 2) complexity of the model; 3) no absence in telephone classes.								correctness									
Course objectives																	
The objective of the course is to complement the implementation of selected learning objectives in terms of knowledge, skills and social competence in the area of logistics and mobility modelling.																	
Learning outcomes																	
Knowledge		E2_W08 Student knows statistical and econometric methods and tools for descri and microeconomic modelling of economic structures and public institut processes occurring in them, in relation to logistics and mobility															
Verification of learning outcomes - Knowledge																	
Outcomes		written exam	oral	exam	test	reded/vesse	/portfolio	tasks/	nomeworks	individual presentation	group	presentation	classroom activities	<u> </u>	discussion	individual project	group project
E2_W08																X	
Skills E2_U04 Student can forecast and model complex economic and social processes using quantitative and qualitative methods and tools developed by economic sciences (including statistics and econometrics), in relation to logistics and mobility																	
Verification of learning outcomes - Skills																	
												ے ا					
Outcomes		written exam	oral	exam	test	iece/vesse	/portfolio	tasks/	nomeworks	individual presentation	group	presentation	classroom activities	moorgan	discussion	individual project	group project
E2_U04																Х	
Attitudes		E2_K05		Stud	ent corr	ectly	identi	fies, d	liagr	noses an	ıd sol	ves dile	mmas	and	altern	ative so	lutions

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SYLLABUS academic year 2023/24

Faculty of Economics University of Gdansk

related to the profession, in relation to logistics and mobility											
Verification of learning outcomes - Attitudes											
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E2_K05										X	

Course contents

1. Structure of logistics and mobility processes

Main ontologies, processualism, eventism, reism, relationism, systemism, architectures of business processes (ARIS, CIM OSA, Zachman's framework), logistics and mobility processes, structure, elements, quantitative and qualitative parameters

2.Development of EPC model of logistics or mobility process

Methods and tools of logistics or mobility process modelling. Constructing a model of a selected logistics or mobility process according to the EPC standard of modelling

3. Analysis of logistics or mobility process model

Heuristics, benchmarking, simulation, time/cost/quality analysis

4.Improvement of logistics or mobility process

Vision, redesigning, reengineering

5. Presentation and discussion on the model of improved logistics or mobility process

Presentation, estimation, discussion

Recommended reading lists

Literature obligatory:

- 1) Rosing M., A-W. Scheer, H. Scheel: The Complete Business Process Modeling Handbook. Body of Knowledge from Process Modeling to BPM (Volume 1). Morgan Kaufmann, Waltham 2015. Available <u>HERE</u>
- 2) Mańkowski C.: Ontological Foundations for Business Logistic Process Modeling. "Railway Transport and Logistics" 2007, no. 2, p. 30-38. Available <u>HERE</u>
- 3) Mańkowski C.: Architectures of logistics processes and systems, Transport Economics and Logistics, Gdańsk University Press, vol. 68, 2017, p. 25-38. Available <u>HERE</u>
- 4) Mańkowski C., Charłampowicz J.: Managing maritime container ports' sustainability: a reference model. "Sustainability", MDPI, vol. 13, nr 18, 2021, p. 1-15. Available HERE

Additional sources:

- 1) A.-W. Scheer: ARIS-Business Process Modeling. Springer Verlag, Berlin 2000
- 2) J. Mendling: Metrics for process models. Springer Verlag, Berlin 2008
- 3) Http://supply-chain.org/
- Http://www.ariscommunity.com
- Http://www.softwareag.com
- Http://www.idef.com
- Http://www.wonderware.com

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^{**} MSG - International Economic Relations