

Course title	Business process modelling (for ERASMUS students)						ECTS code	04.0.EE.FZ.3764				
							ECTS credits	5				
							max. students	15				
Name of unit administrating study	KL	Field of study	Economics/MSG**		Field of specialisation	NONE;						
Teaching staff	Cezary Mańkowski, Associate Professor											
Number of hours												
Lectures	30	Classes	0	Tutorials	0	Laboratory	0	Seminars	0	Language classes	0	
Forma aktywności						Year&Type of studies*	2 SS1, 3 SS1, 1 SS2, 2 SS2,					
Hours with the participation of the academic teacher (including office hours, exams, others):						Semester:	3, 5, 1, 3,					
Hours without the participation of the academic teacher (student's self-study, homeworks):						Type of course:	optional					
Total number of hours:						0	Language of instruction:	English				
Teaching form	blended learning											
Teaching methods	E-learning,											
Prerequisites (required courses and introductory requirements)												
Required courses	No requirements											
Introductory requirements	General knowledge on business processes											
Assessment method, forms and criteria												
Assessment method	Course completion (graded)											
Assessment criteria	Construction of an extended EPC model of selected business process and presentation of the created model in the form of graphic diagram and written description according to the EPC notation (standard of modelling). The assessment criteria is the correctness of the model according to the EPC standard of business process modelling.											
Course objectives												
The objective of the course is to achieve selected learning effects in terms of knowledge, skills and social competence related to business process modelling												
Learning outcomes												
Knowledge	E1_W06	Student knows at an advanced level selected methods and tools for modelling business processes										
	MSG1_W17	Student has advanced knowledge on how to model business processes										
	E2_W07	Student has in-depth knowledge of the business processes structure within business entities and organizations according to modelling standards										
	MSG2_W09	Student has in-depth knowledge of the business processes methods and tools of modelling required by business entities and organizations operating in the national and international environment										
Verification of learning outcomes - Knowledge												
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project	
E1_W06										X		
MSG1_W17										X		
E2_W07										X		
MSG2_W09										X		

Skills	E1_U04	Student can model complex business processes using quantitative and qualitative methods and tools
	MSG1_U08	Student can use basic methods and computer programmes as well as tools to acquire and analyse data necessary in his/her professional work to diagnose and model business processes to make adequate business decisions
	E2_U04	Student can model complex business processes using quantitative and qualitative methods and tools
	MSG2_U10	Student can accurately select and use sources of information on business processes, evaluate, critically analyse and creatively interpret them, and can present them in a reference model, using advanced information and communication techniques

**Verification of learning outcomes - Skills**

Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E1_U04										X	
MSG1_U08										X	
E2_U04										X	
MSG2_U10										X	

Attitudes	E1_K05	Student correctly identifies, diagnoses and solves dilemmas and alternative solutions related to the profession of business process modelling
	MSG1_K05	Student correctly identifies, diagnoses and solves dilemmas and alternative solutions related to the profession of business process modelling
	E2_K05	Student correctly identifies, diagnoses and solves dilemmas and alternative solutions related to the profession of business process modelling
	MSG2_K06	Student is ready to independently identify, diagnose and responsibly resolve dilemmas and alternative solutions related to his/her profession of business process modelling

**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
E1_K05										X	
MSG1_K05										X	
E2_K05										X	
MSG2_K06										X	

**Course contents**

**1. Structure of a business process**

Main ontologies (processualism, eventism, reism, relationism, systemism)  
Architectures of business processes (ARIS, CIM OSA, Zachman's framework)  
Business process elements and parameters

**2. Development of EPC model of selected business process**

Methods and tools of business process modelling  
Modelling business process selected by a student according to the EPC standard of modelling

**3. Self-assessment of the modelled business process**

Self-assessment is done by a student with the usage of heuristics, benchmarking, simulation, time/cost/quality analysis methods

**4. Improvement of the modelled business process**

Vision, redesigning, reengineering

**5. Presentation the final business process model to the teacher for the final assessment**



Recommended reading lists

**Literature obligatory:**

- 1) A.-W. Scheer: ARIS &mdash; Business Process Modeling. Springer Verlag, Berlin 2000
- 2) J. Mendling: Metrics for process models. Springer Verlag, Berlin 2008
- 3) Mańkowski C.: Ontological Foundations for Business Logistic Process Modeling. "Railway Transport and Logistics" 2007, no. 2, p. 30-38. Article is available [here](#)

**Additional sources:**

- 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 at <http://ebpm.ir/wp-content/uploads/2017/10/The-Complete-Business-Process-Handbook-Body-of-Knowledge-from-Process-Modeling-to-BPM-Volume-I-2014.pdf>
- 2) Knowledge Portals  
[Http://www.ariscommunity.com](http://www.ariscommunity.com)  
[Http://www.softwareag.com](http://www.softwareag.com)  
[Http://www.idef.com](http://www.idef.com)  
[Http://www.wonderware.com](http://www.wonderware.com)

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\* SS1- undergraduate studies \* SS2 - graduate studies \* SDang - doctoral studies  
\*\* MSG - International Economic Relations