

Subject card

Subject name and code	Business Process Modelling, PG_00202463						
Field of study	Economics, International Economic Relations, International Business, Logistics and Mobility						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional 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 Logistics -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Cezary Mańkowski				
	Teachers		dr hab. Cezary Mańkowski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	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		95.0	125
Subject objectives	Achievement of learning outcomes in terms of knowledge, skills and social competences relating to the modelling and of business processes						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[IBL3_K04] is ready to think and act in an entrepreneurial manner	is ready to think and act in an entrepreneurial manner when modeling business processes	[SK2] presentation/project/paper/report
	[IBMU2_U01] can creatively interpret, explain and analyse complex economic phenomena and the relations occurring between them, using the acquired knowledge in international business and international economic and financial relations	is able to creatively interpret, explain and analyse business processes and the relationships between them, using acquired knowledge in the field of international business and international economic and financial relations	[SU2] presentation/project/paper/report
	[MSGMU2_U05] can apply the rules and standards of business activity in order to solve complex and atypical problems arising from international economic cooperation	is able to use the rules and standards of modeling business processes	[SU2] presentation/project/paper/report
	[EKONMU2_U08] can independently analyse economic and social phenomena and processes, and can perform a theoretically deepened assessment of such phenomena, using appropriately selected research method	independently analyze business processes using appropriately selected research methods	[SU2] presentation/project/paper/report
	[EKONMU2_K05] correctly identifies, diagnoses and solves advanced dilemmas and alternative solutions related to the profession	is able to critically identify and diagnose modeled business processes	[SK2] presentation/project/paper/report
	[EKONL3_U04] can predict and forecast the course of economic and social processes and phenomena	can predict the course of modeled business processes and design them	[SU2] presentation/project/paper/report
	[MSGL3_U05] can use regulations and standards which determine business activity, as well as accounting principles in order to solve specific tasks related to the activity of enterprises	is able to use the regulations and standards that determine the modeling of business processes	[SU2] presentation/project/paper/report
	[MSGMU2_K06] is ready to independently identify, diagnose and responsibly resolve dilemmas and alternative solutions related to his/her profession and the development of professional achievements	demonstrates readiness to independently identify and diagnose economic processes	[SK2] presentation/project/paper/report
	[LMMU2_K05] correctly identifies, diagnoses and solves dilemmas and alternative solutions related to the profession	correctly identifies, diagnoses and resolves dilemmas and various variants of modelling business processes related to the profession of manager or contractor of business processes	[SK2] presentation/project/paper/report
	[IBL3_U04] can use basic regulations and standards which determine business activity	is able to apply basic regulations and standards for modelling business processes	[SU2] presentation/project/paper/report
	[LMMU2_U08] can independently analyse logistics and mobility processes and systems, and can perform a theoretically deepened assessment of such processes and systems, using appropriately selected research method	can independently analyze business processes	[SU2] presentation/project/paper/report
	[MSGL3_K05] correctly identifies, diagnoses and solves dilemmas and various options of solutions related to the profession	correctly identifies, diagnoses and resolves dilemmas and various variants of modeled business processes	[SK2] presentation/project/paper/report
	[EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions	correctly identifies, diagnoses and resolves dilemmas and various variants of modeled business processes	[SK2] presentation/project/paper/report
	[IBMU2_K03] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking; acquires resilience to failures; assesses risks and threats and finds ways of counteracting their effects	takes up the challenges of creative thinking in the field of modeled business process	[SK2] presentation/project/paper/report

Subject contents	1 Modelling of business processes as a research method Realism, evidentialism, processualism, relationalism, systemism, as ontological foundations of of modelling. The modelling system. 2.Architectures and methods of business process modelling. Architectures of economic processes (IDEF, ARIS, CIM OSA, Zachman's framework). Modelling methods (UML, BPMN, EPC , BPEL, WSDL). 3.Business process as an object of modelling Structure of the economic process. The extended structure of the business process. Events, activities, resources, relationships. Attributes of the economic process and its components. 4 Economic process modelling tools. Sankey diagram. Aris Easy Design. Aris Express. Aris Architect&Designer. Model of the designed business process. Model of the currently implemented business process. Model of the improved business process.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	51.0%	100.0%
Recommended reading	Basic literature	1) A.-W. Scheer: ARIS. Business Process Modeling. Springer Verlag, Berlin 2000 2) 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 3) C. Mańkowski: Ontological foundations for business logistic process modeling. "Railway Transport and Logistics" 2007, no. 2, p. 30-38. 3) Portale: www.ariscommunity.com ; www.idef.com ; www.zachman.com	
	Supplementary literature	1) J. Mendling: Metrics for process models. Springer Verlag, Berlin 2008	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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