



Subject card

Subject name and code	BUSINESS PROCESS ANALYSIS, PG_00068690						
Field of study	Economic Analytics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	second-cycle studies		Subject group		Optional subject group Specialty subject group Subject group related to scientific research in the field of study		
Mode of study	Part-time studies (on-line)		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Management -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	16.0	0.0	0.0	24
	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	24		4.0		72.0	100
Subject objectives	Identifies and models business processes based on reliable data, selecting their degree of complexity in accordance with the purpose of the study						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_K02] acts entrepreneurially, making competent and ethical decisions that consider the public interest as well as economic, social, and environmental values.		is prepared to make competent and ethical scenario choices, taking into account organizational, economic, social, and environmental criteria.		[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_W06] knows and understands the principles of evaluating the reliability of utilized data, applying in-depth specialized knowledge in the field of economic analysis.		knows and understands the principles of data reliability assessment and uses them to build simulation models and verify complex processes.		[SW1] Assessment of factual knowledge		
Subject contents	LECTURE Strategies for implementing changes towards the dynamics of processes in the organization Competing based on analytics in internal and external processes Building analytical competencies Managing the growth of process maturity Process approach implementation methodology Process architecture - APQC PCF SIPOC model. BPMN notation - advanced modeling Handling unusual situations - advanced aspects of events Construction of process maps Building process architecture Advanced tag properties Artifacts. Collaboration diagram - case study Choreography diagram - case study Conversation diagram - case study. LABORATORY Creative observation of reality in order to identify processes in which the student is a stakeholder, contractor or owner Independent construction of a simulation model using iGrafx and BPMN notation, based on acquired skills Conducting simulations, tests and analyzes to optimize the process Making a description of the process. Defending the completed task						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	56.0%	50.0%
	Project	56.0%	50.0%
Recommended reading	Basic literature	Auksztol J., Chomuszek M. (red.): Modelowanie organizacji procesowej, PWN, Warszawa 2012 Davenport T.H., Harris J.G.: Inteligencja analityczna w biznesie, MT Biznes, Warszawa 2013 Gawin B., Marcinkowski B.: Symulacja procesów biznesowych. Standardy BPMS i BPMN w praktyce, Helion 2013 Piotrowski M.: Procesy biznesowe w praktyce. Projektowanie, testowanie i optymalizacja, Helion 2013	
	Supplementary literature	Bitkowska A.: Zarządzanie procesowe we współczesnych organizacjach, DIFIN, Warszawa 2013 Drejewicz Sz.: Zrozumieć BPMN. Modelowanie procesów biznesowych, Helion 2012 Piotrowski M.: Notacja modelowania procesów biznesowych. Podstawy, Wydawnictwo BTC 2014	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Discuss the differences between a process map and a process model Discuss win-win strategies for managing process maturity growth List typical internal processes where analytics is used. How can organizations build their competitive position based on analytics in these processes? Discuss the SIPOC model used in the implementation of the process approach in the organization		
Work placement	Not applicable		

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