



## Subject card

Subject name and code	BUSINESS PROCESSES ANALYSIS, PG_00037093						
Field of study	Economic Analytics						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2023/2024		
Education level	second-cycle studies		Subject group		Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery		blended-learning		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Department of Management -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marzena Grzesiak				
	Teachers		dr inż. Marzena Grzesiak				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0	30
	E-learning hours included: 14.0						
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		6.0		39.0	75
Subject objectives	The aim of the course is to: acquire advanced knowledge and skills in the analysis of processes within an organization; acquire the ability of independent use of IT tools used in the analysis of business processes using BPMN.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_K03] can assess the validity of criteria and tasks in the projects implemented		Identifies and models business process independently choosing their complexity and level of detail of the analyzes.		[SK2] Assessment of progress of work		
	[K7_U03] can identify and analyse the causes and course of specific economic processes and phenomena as well as propose solutions based on them		Has ability to analyze and model business processes using simulation software and BPMN.		[SU4] Assessment of ability to use methods and tools		
	[K7_W15] has an in-depth knowledge of the processes taking place in the company and the risks associated with it		Has advanced knowledge about means, tools and methods of business processes analysis.		[SW1] Assessment of factual knowledge		
	[K7_U13] can design and execute tasks entrusted to them, effectively cooperating in a team		Increases the efficiency of task realization having the opportunity to exchange experiences in group and mutual inspiration.		[SU1] Assessment of task fulfilment		

Subject contents	Lecture: Strategies to implement changes in the dynamics of processes within an organization. Competing on the basis of the analysis of the processes of internal and external. Build analytical competence. Managing of the maturity process increase . The methodology of implementation of the process approach. Processes architecture - APQC PCF. SIPOC model. BPMN notation - advanced modeling. Abnormal cases service-advanced aspects of the event. Mapping processes. Processes architecture construction. Gates advanced properties . Artifacts. Collaboration diagram- case study. Choreography diagram- case study. Conversation diagram- case study.		
	Lab: Creative observation of reality to identify processes that the student is a stakeholder, performer or owner. Individual realization of a simulation model using iGrafx and BPMN, based on skills acquired in the preceding semester within the subject <i>Process modeling within an organization</i> . Simulations, tests and analyzes in order to optimize the process. Process description. Defense of realized task.		
Prerequisites and co-requisites	Passed subject <i>Process modeling within an organization</i> in the preceding semester.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	56.0%	50.0%
	Project	56.0%	50.0%
Recommended reading	Basic literature	Dumas M., La Rosa.M, Mendling J., Reijers H.A.: Business Process Management. Istota zarządzania procesami biznesowymi, PWN, Warszawa 2022	
		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	Auksztol J., Chomuszek M. (red.): Modelowanie organizacji procesowej, PWN, Warszawa 2012	
		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: Analiza procesów biznesowych - stacjonarne 2023 - Moodle ID: 27855 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27855">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27855</a>	
Example issues/ example questions/ tasks being completed	Discuss the differences between a flow chart and process model.		
	Discuss the selection of strategies for managing growth in maturity process.		
	List the typical internal processes, that apply analytics. How organizations can build their competitive positions based on analytics in these processes?		
	Discuss SIPOC model used while implementing process approach within the organization.		
Work placement	Not applicable		