



Subject card

Subject name and code	BUSINESS PROCESSES ANALYSIS, PG_00037797						
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	Part-time studies	Mode of delivery			at the university		
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						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	8.0	0.0	0.0	16
	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	16		6.0		53.0	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_W15] has an in-depth knowledge of the processes taking place in the company and the risks associated with it	Posses advanced knowledge about the ways, tools and methods of business processes analysis.			[SW1] Assessment of factual knowledge		
	[K7_K03] can assess the validity of criteria and tasks in the projects implemented	Identifies and models the business processes independently choosing its complexity and the detail level 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	Analyze and modeling business processes using simulation software and BPMN.			[SU4] Assessment of ability to use methods and tools		
	[K7_U13] can design and execute tasks entrusted to them, effectively cooperating in a team	Increase the effectiveness of realized tasks using the opportunity of group exchange of experience and mutual inspiration.			[SU1] Assessment of task fulfilment		
Subject contents	<p>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.</p> <p>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.</p>						

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
	Project	56.0%	50.0%
	Exam	56.0%	50.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> •Auksztol J., Chomuszko 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 •User manual of iGrafx Process, available on the Internet 	
	Supplementary literature	<ul style="list-style-type: none"> •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		
Example issues/ example questions/ tasks being completed	<p>Discuss the differences between a flow chart and process model.</p> <p>Discuss the selection of strategies for managing growth in maturity process.</p> <p>List the typical internal processes, that apply analytics. How organizations can build their competitive positions based on analytics in these processes?</p> <p>Discuss SIPOC model used while implementing process approach within the organization.</p> <p>Lab: Prepare full-fledged simulation model of chosen process, present the simulation results, make optimization, suggest changes for improving the process.</p>		
Work placement	Not applicable		