



Subject card

Subject name and code	ORGANIZATIONAL PROCESSES MODELLING, PG_00037087						
Field of study	Economic Analytics						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2021/2022		
Education level	second-cycle studies	Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			4.0		
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		mgr inż. Łukasz Błądek 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	30.0	0.0	0.0	45
	E-learning hours included: 0.0						
Modelowanie procesów w organizacji stacjonarne - Moodle ID: 16468 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=16468							
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	45	10.0	45.0	100		
Subject objectives	The aim of this course is provide to students the knowledge concerning the organisational processes modelling and posses by students the skills for modelling the processes with BPMN notation.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_W12] has a broad knowledge of the evolution of structures, institutions and socio-economic relations	Identifies the process organization determinants. Knows the processes improvement methods.			[SW1] Assessment of factual knowledge		
	[K7_U13] can design and execute tasks entrusted to them, effectively cooperating in a team	Perform the team tasks. Identifies the task to be done.			[SU1] Assessment of task fulfilment		
	[K7_W03] has a broadened knowledge of the different types of structures and institutions and entities operating in the economy and the relations between them	Indicates the differences between functional and process organiaional structure. Identifies proceses ans relationship between them.			[SW1] Assessment of factual knowledge		
	[K7_U08] has the ability to implement analytical methods to independently propose solutions to economic problems and verify their effectiveness	Applies the processes visualization and simulation tools. Designs the processes changes.			[SU4] Assessment of ability to use methods and tools		
	[K7_U07] can use the acquired knowledge of economic sciences and quantitative methods to identify, formulate and propose solutions to specific economic problems and assess their effectiveness	Designs the business processes within organization. Analyzes the business processes within organization.			[SU1] Assessment of task fulfilment		

Subject contents	<p>Lecture: Basic concepts and definitions. Shaping the organizational structure (structure-factors and the relationships between them, features contemporary organizational structure). Determinants of process organization (as part of the process of building an organization, characteristics of process organization). Classification of processes within an organization (Customer orientation, market relations within the organization, Measures of processes). The team in the organization process. Design of process organization (levels of process maturity, life cycle processes, Model SIPOC). Standardization of processes. The concept of process organization structure. Process Control. Process Improvement (CMMI model).</p> <p>Laboratory: Basic concepts and definitions, getting familiar with iGrafx Process, process mapping, basic BPMN symbols. Simulation components: activities, schedules, generators, simulation durations, resources, overtime, attributes, functions, decision getways, charts, scenarios and reports. Realization of tasks according to given parameters, simulating, analyzing results, optimizing the process. Realization of individual project: process mapping, setting parameters, simulating, analyzing results, optimizing the process, the defense of the project.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Practical exercises, individual project	56.0%	50.0%
	Written exam	56.0%	50.0%
Recommended reading	Basic literature		<p>Lecture:</p> <ul style="list-style-type: none"> •Auksztol J., Chomuszko M. (red.): Modelowanie organizacji procesowej, PWN, Warszawa 2012 •Chrapko M.: Doskonalenie procesów w organizacji, PWN, Warszawa 2010 •Grajewski P: Organizacja procesowa, PWE, Warszawa 2007 •Piotrowski M.: Notacja modelowania procesów biznesowych. Podstawy, Wydawnictwo BTC 2014 •Piotrowski M.: Procesy biznesowe w praktyce. Projektowanie, testowanie i optymalizacja, Helion 2013 <p>Laboratory:</p> <ul style="list-style-type: none"> •User manual of iGrafx Process 2013, available on the Internet •Lab instructions published via http://moodle.zie.pg.gda.pl/ <p>•Grzesiak M.: Modelowanie procesów biznesowych z wykorzystaniem narzędzi iGrafx Process 2015, Gdańsk, 2018</p>
	Supplementary literature		<p>Lecture:</p> <ul style="list-style-type: none"> •Skrzypek E., Hoffman M.: Zarządzanie procesami w przedsiębiorstwie, Wolters Kluwer 2011 •Drejewicz Sz.: Zrozumieć BPMN. Modelowanie procesów biznesowych, Helion 2012
	eResources addresses		
Example issues/ example questions/ tasks being completed	<p>Lecture:</p> <p>Describe the basic principles of modeling. Describe the selected classification of the processes. Describe the components of the CMMI model. Implement the model of the process in BPMN. Analyze the process indicators and suggest the changes.</p> <p>Laboratory:</p> <p>Build a model of the process using BPMN. Carry out a simulation experiment. Interpret the results and make improvements to the process.</p>		
Work placement	Not applicable		