



Subject card

Subject name and code	Business process modelling, PG_00045364						
Field of study	Data Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject				2022/2023	
Education level	first-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				blended-learning	
Year of study	2	Language of instruction				English	
Semester of study	4	ECTS credits				3.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Informatics in 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	30.0	0.0	0.0	45
	E-learning hours included: 20.0						
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	45		5.0		25.0	75
Subject objectives	Gaining knowledge and skills in the field of process modeling in the organization. Acquiring the ability to use IT tools for process modeling introduction to BPMN notation.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U03] analyses problems and creates appropriate models, data structures and algorithms (including heuristic and numerical ones), assesses their computational complexity, estimates errors of the received solutions	Knows the process modeling tools. Models business processes.			[SU4] Assessment of ability to use methods and tools		
	[K6_K03] Knows how to cooperate or work in a project team and take managerial or executive functions.	Carries out tasks. Uses communication tools to accomplish tasks.			[SK2] Assessment of progress of work		
[K6_W08] Knows the models and structure of the data mining process and their multidimensional analysis and can assess the results of such analyses	Identifies the processes. Interpret the results. Can indicate the possibilities of using the results.			[SW1] Assessment of factual knowledge			
Subject contents	<p>Lectue: Definition of process, business process, business process modeling. BPM history and evolution. Process orientation. Why modeling/ simulate? Business process life cycle. Processes identification and classification. Process mapping. Modeling and simulation tools. Process metrics. Business Process Modeling Notation.</p> <p>Laboratory: Exercises for getting to know the iGrafx application. Exercises strengthen the skills related to model parameters defining: run setup, schedules, events, generators, resources, attributes; Shapes properties defining (for activities: Task, Resources, Attributes sections; for gateways: Inputs and Outputs sections; for events: Inputs, Task/ On completion sections); Run simulation, report analysis, process optymization. Individual project realization.</p>						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exercises and individual project.	56.0%	66.0%
	Examination	56.0%	34.0%
Recommended reading	Basic literature	<p>Hernes T. (2008), Understanding Organizatioas as a Process. Theory for a tangled world, Routledge Taylor&amp;Francis Group, London and New York</p> <p>Dumas M., La Rosa M., Mendling J., Reijers H.A. (2013, 2018), Fundamentals of Business Process Management, Springer-Verlag GmbH Germany</p> <p>Kossak F. (at all) (2016),Hagenberg Business Process Modelling Method, Springer International Publishing Switzerland</p>	
	Supplementary literature	Hewing M. (2014), Business Process Blueprinting. A Method for Customer-Oriented Business Process Modeling, Springer Fachmedien Wiesbaden	
	eResources addresses	Adresy na platformie eNauczenie: Business process modelling - Moodle ID: 24407 <a href="https://enauczenie.pg.edu.pl/moodle/course/view.php?id=24407">https://enauczenie.pg.edu.pl/moodle/course/view.php?id=24407</a>	
Example issues/ example questions/ tasks being completed	<p>Lecture:Indicate the primary and subsidiary processes in your organization.Discuss the use of three selected tools used for process modeling. Evaluate their application to specific situations.Discuss the PCF (Process Classification Framework) classification.Laboratory:Build a process model using BPMN notation. Conduct a simulation experiment. Interpret results and introduce improvements to the process.</p>		
Work placement	Not applicable		

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