



Subject card

Subject name and code	BUSINESS PROCESSES MODELING, PG_00067696						
Field of study	Management						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2026/2027	
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	Part-time studies	Mode of delivery				at the university	
Year of study	1	Language of instruction				Polish	
Semester of study	1	ECTS credits				2.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Management -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Katarzyna Karpienko				
	Teachers		dr inż. Katarzyna Karpienko				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	16.0	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		3.0		31.0	50
Subject objectives	Uses simulation methods to map the operation of the real process, critically interpreting the results obtained before using them in the decision-making process						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_W02] understands the significance and interrelationships of key components describing economic processes, drawing on in-depth knowledge aligned with major developmental trends in scientific disciplines related to the field of studies.		has in-depth knowledge of the structure and interrelations of business processes, in line with current trends in management and economic sciences		[SW1] Assessment of factual knowledge		
[K7_U02] presents logical and well-founded arguments regarding obtained results through the analysis and synthesis of information in various business contexts, critically evaluating their interpretation.		can analyze and model business processes, formulate logical conclusions, and present results in a well-reasoned and critical manner, appropriate to the business context		[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information			
Subject contents	<p>Course content – laboratory</p> <p>Basic concepts and definitions, familiarization with the iGrafx Process tool, creating a process map, basic symbols (events, activities, gates)</p> <p>Simulation elements: schedules, generators, resources, tasks, attributes, functions, decision gates, freeze frames, charts, scenarios, reports</p> <p>Simulation environment settings, scenarios</p> <p>Implementation of the content of tasks in accordance with the set parameters, simulation, analysis of results, process optimization</p> <p>Final task</p>						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Laboratory tasks		60.0%		100.0%		
Recommended reading	Basic literature		Dokumentacja programu iGrafx Process, dostępna w Internecie				

	Supplementary literature	<p>Drejewicz Sz.: Zrozumieć BPMN. Modelowanie procesów biznesowych. Wydanie 2 rozszerzone, Helion 2017</p> <p>Grzesiak M.: Modelowanie procesów biznesowych z wykorzystaniem narzędzi iGrafx Process 2015, Wydawnictwo Politechniki Gdańskiej 2018</p> <p>Piotrowski M.: Notacja modelowania procesów biznesowych. Podstawy, BTC 2014</p> <p>Piotrowski M.: Procesy biznesowe w praktyce. Projektowanie, testowanie i optymalizacja, Helion 2013</p> <p>Grajewski P: Organizacja procesowa, PWE 2007</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>Build a simulation model of the proces</p> <p>Carry out a simulation experiment</p> <p>Interpret the results and make improvements to the proces</p>	
Practical activites within the subject	Not applicable	

Document generated electronically. Does not require a seal or signature.