GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	BUSINESS PROCESSES MODELING, PG_00063744		
Field of study	Management		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
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	1	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Management -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Katarzyna Karpienko	
	Teachers	dr inż. Katarzyna Karpienko	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	30.0	0.0	0.0	30

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	30	4.0	16.0	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] explains the meaning and interdependence of key components describing management processes, using in-depth knowledge consistent with the main trends in the development of scientific disciplines related to the field of study	identifies the key components of the examined process, mapping them in accordance with the contemporary used methodology in the created simulation model	[SW3] Assessment of knowledge contained in written work and projects
[K7_U02] presents logical and solid arguments about the obtained results, by analyzing and synthesizing information in various business contexts, approaching their interpretation critically	interprets the results of the simulation experiment, indicating the directions of improvement in the tested process	[SU5] Assessment of ability to present the results of task

Subject contents

Basic concepts and definitions, familiarization with the iGrafx Process tool, creating a process map, basic symbols (events, activities, gates)
Simulation elements: schedules, generators, resources, tasks, attributes, functions, decision gates, freeze frames, charts, scenarios, reports
Simulation environment settings, scenarios
Implementation of the content of tasks in accordance with the set parameters, simulation, analysis of results, process optimization
Final task

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	Drejewicz Sz.: Zrozumieć BPMN. Modelowanie procesów biznesowych. Wydanie 2 rozszerzone, Helion 2017 Grzesiak M.: Modelowanie procesów biznesowych z wykorzystaniem narzędzi iGrafx Process 2015, Wydawnictwo Politechniki Gdańskiej 2018 Piotrowski M.: Notacja modelowania procesów biznesowych. Podstawy, BTC 2014 Piotrowski M.: Procesy biznesowe w praktyce. Projektowanie, testowanie i optymalizacja, Helion 2013 Grajewski P: Organizacja procesowa, PWE 2007
	eResources addresses	Adresy na platformie eNauczanie: MODELOWANIE PROCESÓW BIZNESOWYCH - Moodle ID: 40882 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40882
Example issues/ example questions/ tasks being completed	Build a simulation model of the proces Carry out a simulation experiment Interpret the results and make improvements to the proces	
Work placement	Not applicable	

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