GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	BUSINESS PROCESSES MODELING, PG_00061041		
Field of study	Management		
Date of commencement of studies	February 2024	Academic year of realisation of subject	2023/2024
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 (on-line)	Mode of delivery	blended-learning
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	16.0	0.0	0.0	16

E-learning hours included: 12.0

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_W01] identifies in-depth the phenomena related to the studied field and the theories describing them as well as possible concepts and methods of management	identifies the key components of the examined process, mapping them in accordance with the methodology used in the created simulation model	[SW1] Assessment of factual knowledge
[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
Final test	60.0%	100.0%

Recommended reading

Basic literature	Dokumentacja programu iGrafx Process, dostępna w Internecie

	Supplementary literature	Grajewski P: Organizacja procesowa, PWE 2007 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
	eResources addresses	Adresy na platformie eNauczanie: Modelowanie procesów biznesowych - niestacjonarne ONLINE 2023/2024 - Moodle ID: 37382 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37382
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	