GDAŃSK UNIVERSITY OF TECHNOLOGY

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. Magdalena Fabjanowicz	
	Teachers	dr inż. Magdalena Fabjanowicz	

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

eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=6162

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

Preparing students to create business process models and conduct simulations using specialized software, based on knowledge of economic processes, as well as fostering attitudes related to critically interpreting simulation results and applying them responsibly in organizational decision-making.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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.	is able to build a business process model and run its simulation in dedicated software, formulate logical conclusions, and critically interpret the results in relation to the specifics of the analyzed process.	[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
[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.	knows and understands the structure and interrelationships of business processes in the context of computer modeling and simulation, making use of current trends in management and economics.	[SW1] Assessment of factual knowledge

<table>
<tr><td>Subject contents</td><td>Course content – laboratory
Basic concepts and definitions; introduction to the iGrafx Process tool; process map development; basic symbols (events, activities, gateways).

Simulation elements: schedules, generators, resources, tasks, attributes, functions, decision gateways, snapshots, charts, scenarios, and reports.

Simulation environment settings and scenarios.

Completion of tasks according to specified parameters; conducting simulations; analysis of results; process optimization.

Final assessment assignment.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Evaluation of the quality of model building in stage</td><td>60.0%</td><td>35.0%</td></tr>
<tr><td>Assessment of the correctness and consistency of the model in the project assignment</td><td>60.0%</td><td>25.0%</td></tr>
<tr><td>Assessment of the explanation of process structure and interrelationships during the oral project defense</td><td>60.0%</td><td>40.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Dokumentacja programu iGrafx Process, dostępna w Internecie</td></tr>
<tr><td>Supplementary literature</td><td>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</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>Build a simulation model of the proces
Carry out a simulation experiment
Interpret the results and make improvements to the proces</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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