GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	BUSINESS PROCESSES ANALYSIS, PG_00060924
Field of study	Economic Analytics

Date of commencement of studies	October 2023	Academic year of realisation of subject	2024/2025
Education level	second-cycle studies	Subject group	Optional subject group 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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	4.0
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. 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	8.0	0.0	16.0	0.0	0.0	24
	E-learning hours included: 5.0						

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	24	8.0	68.0	100

Subject objectives	Identifies and models business processes based on reliable data, selecting their degree of complexity in accordance with the purpose of the study

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_W04] analyzes complex problems in an in-depth way on the basis of reliable data and properly selected methods, obtaining logical solutions	analyzes complex processes in an in-depth way, creating the structure of a simulation model and conducting an experiment confirming the logic of the solution	[SW1] Assessment of factual knowledge
	[K7_K02] makes competent and ethical decisions, taking care of the public interest and maintaining economic, social and environmental values	makes competent decisions on the selection of the scenario using organizational and economic criteria	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents	LECTURE
	Basic concepts and definitions.
	Process modeling in BPMN notation.
	Determinants of process organization
	APQC PCF process architecture.
	Designing process organization. Process maturity levels.
	Process life cycle.
	SIPOC Model
	Market relations within the organization.
	Process measures.
	Quantitative analysis of processes.
	Qualitative analysis of processes.
	Process control.
	Process improvement (CMMI Model).
	Methodology for implementing the process approach.
	LABORATORY
	Business process modeling using BPMN notation. Creating simple business process models. Extending and detailing models. Learning best practices for process modeling. Building a process model using iGrafx and BPMN notation, based on acquired skills. Conducting simulations, tests, and analyses to optimize the process.
Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Task oerformed during classes	66.0%	50.0%
	Test	34.0%	50.0%

Recommended reading	Basic literature	Auksztol J., Chomuszko M. (red.): Modelowanie organizacji procesowej, PWN, Warszawa 2012
		Dumas M., La Rosa.M, Mendling J., Rejiers H.A.: Business Process Management. Istota zarządzania procesami biznesowymi, PWN, Warszawa 2022
		Grajewski P.: Organizacja procesowa, PWE, Warszawa 2007
		Misiak Z.: Modelowanie procesów biznesowych. BPMN 2.0 od podstaw, Onepress, 2023
		Sliż P: Organizacja procesowo-projektowa. Istota. Modelowanie. Pomiar dojrzałości. Wydawnictwo Difin, Warszawa 2021
	Supplementary literature	Bitkowska A.: Zarządzanie procesowe we współczesnych organizacjach, DIFIN, Warszawa 2013
		Grzesiak M. Modelowanie procesów biznesowych z wykorzystaniem narzędzi iGrafx Process 2015, Gdańsk 2018, wyd. PG
	eResources addresses	Adresy na platformie eNauczanie: Analiza procesów biznesowych - niestacjonarne 2024 - Moodle ID: 39526 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=39526
Example issues/ example questions/ tasks being completed	Discuss the stages of the business process life cycle using a selected process as an example. List and discuss three selected quantitative process analysis methods. Discuss the SIPOC model used in the implementation of the process approach in the organization.	
Work placement	Not applicable	

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