



Subject card

Subject name and code	Process Management, PG_00067666						
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	Full-time studies	Mode of delivery			blended-learning		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			3.0		
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. Marzena Grzesiak					
	Teachers	dr inż. Marzena Grzesiak Piotr Sliż					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	E-learning hours included: 20.0						
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	45	6.0		24.0		75
Subject objectives	Preparing students to identify, model, analyze, and automate business and organizational processes using BPMN notation and workflow environments, employing process analysis methods and artificial intelligence tools based on knowledge of process management, as well as fostering attitudes related to critical evaluation of ones own knowledge, responsible teamwork, and seeking expert opinions in the context of digital transformation and Industry 5.0.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_W03] demonstrates in-depth knowledge of the applications of analytical methods and techniques for formulating and solving problems.	Knows and understands methods of business process analysis, techniques for identifying problems, and approaches to designing improvements in process management, in the context of process modeling, simulation, and automation.			[SW1] Assessment of factual knowledge		
	[K7_U04] is able to prepare and convincingly present the results of specialized analyses, providing in-depth interpretation during debates and meetings with various audiences.	Is able to prepare a process model according to notation principles and present the results of business process analysis, clearly interpret them, and communicate them effectively in various organizational and team contexts.			[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	<p>Course content – lecture</p> <ul style="list-style-type: none"> - Customer Needs Analysis as a Source of Competitive Advantage and Process Requirements - Process Management Concepts and Assumptions - ICT Technologies Supporting Process Management - Organizational Structures Supporting Process Management - Process Organization - Quantitative and Qualitative Process Analysis - Process Models (Various Diagram Types) - BPMN Notation Elements - Process Standardization and Automation (Workflow) - Implementation of Executable Models - Process Monitoring <p>Course content – laboratory</p> <p>Part 1: Process Modeling in BPMN (iGrafx)</p> <ul style="list-style-type: none"> - Getting Started with the Tool Introductory Exercise (Reproducible) - Creating a Private Diagram - Creating a Public Diagram - Creating a Collaboration Diagram - Defining Model and Diagram Parameters Process Simulation - Quantitative and Qualitative Process Analysis, Implementing Solutions to Increase Process Efficiency <p>Part 2: Process Automation</p> <ul style="list-style-type: none"> - Creating an Executable Process Model - Creating a Data Model - Creating a User Interface - Creating Integrations with Third-Party Systems - Testing - Inter-Process Communication - Monitoring <p>Part 3: Final Assignment (Small Project)</p>																	
Prerequisites and co-requisites																		
Assessment methods and criteria	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Subject passing criteria</th> <th style="width: 30%;">Passing threshold</th> <th style="width: 30%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>Project presentation with justification of the adopted solutions.</td> <td style="text-align: center;">60.0%</td> <td style="text-align: center;">10.0%</td> </tr> <tr> <td>Partial tasks: completing assignments based on a description</td> <td style="text-align: center;">60.0%</td> <td style="text-align: center;">21.0%</td> </tr> <tr> <td>A test in the form of closed and open-ended questions (quiz), verifying knowledge of concepts, principles, and methods of process management.</td> <td style="text-align: center;">60.0%</td> <td style="text-align: center;">34.0%</td> </tr> <tr> <td>Project: developing a process model in BPMN notation, conducting an analysis, and proposing optimization actions.</td> <td style="text-align: center;">60.0%</td> <td style="text-align: center;">35.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Project presentation with justification of the adopted solutions.	60.0%	10.0%	Partial tasks: completing assignments based on a description	60.0%	21.0%	A test in the form of closed and open-ended questions (quiz), verifying knowledge of concepts, principles, and methods of process management.	60.0%	34.0%	Project: developing a process model in BPMN notation, conducting an analysis, and proposing optimization actions.	60.0%	35.0%
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Recommended reading	Basic literature	<p><i>Dumas M., La Rosa.M, Mendling J., Reijers H.A.: Business Process Management. Istota zarządzania procesami biznesowymi, PWN,Warszawa 2022</i></p> <p><i>Misiak Z.: Modelowanie procesów biznesowych. BPMN 2.0 od podstaw, Onepress, 2023</i></p> <p><i>Ries. E: Metoda Lean Startup, Helion 2012</i></p> <p><i>Sliż P: Organizacja procesowo-projektowa. Istota. Modelowanie. Pomiar dojrzałości. Wydawnictwo Difin, Warszawa 2021</i></p>																
	Supplementary literature	<p><i>Bitkowska A.: Zarządzanie procesowe we współczesnych organizacjach, Difin 2013</i></p> <p><i>Grajewski P.: Organizacja procesowa, PWE, Warszawa 2007</i></p> <p><i>Grzesiak M. Modelowanie procesów biznesowych z wykorzystaniem narzędzi iGrafx Process 2015, Gdańsk 2018, wyd. PG</i></p> <p><i>Sliż P., Dwoiste zarządzanie procesami w erze gospodarki cyfrowej, DIFIN, Warszawa, 2024.</i></p>																

	eResources addresses	
Example issues/ example questions/ tasks being completed	Characterize selected management concepts using the process approach. Analyze the differences Discuss selected IT tools in process management Perform the exercise according to the instructions - getting to know the application Graphically represent the process described in the task. Define its parameters. Analyze the results of the process. Suggest changes	
Practical activities within the subject	Not applicable	

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