

Subject card

Subject name and code	Integrated Digital Product Development: Scaled Agile Framework, Business Needs Analysis, Testing, and BizDevOps Collaboration, PG_00191154						
Field of study	Finance and Accounting, Informatics and Econometrics, Management						
Date of commencement of studies	October 2024	Academic year of realisation of subject				2025/2026	
Education level	Master's studies	Subject group					
Mode of study	full-time studies	Mode of delivery				at the university	
Year of study	2	Language of instruction				Polish	
Semester of study	4	ECTS credits				2.0	
Learning profile	academic	Assessment form				credit	
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Sabina Nowak				
	Teachers		dr Sabina Nowak				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		10.0		10.0	35
Subject objectives	The aim of the course is to equip students with the skills to conduct integrated digital product development through the application of scalable agile practices, business needs analysis, design and testing, and effective BizDevOps collaboration, leading to fast and valuable solution delivery. The classes are conducted by employees of Nordea Bank Abp SA Branch in Poland.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FiRMU2_U02] The student can use advanced theoretical knowledge to describe the causes and course of economic processes and phenomena. The student can formulate his own critical opinions.	The student can design, conduct, and evaluate validation and qualitative/quantitative tests at various stages of the product life cycle.	[SU1] oral statement/conversation/discussion [SU8] observation of student's independent or team work
	[ZARZMU2_K05] The student is ready to make an in-depth assessment of phenomena and justify his position through rational, logical and entrepreneurial use of knowledge - basing his assertions and decisions on an in-depth analysis of the information he receives.	The student can synthesise information from various sources (finance, technology, UX, operations) and formulate reasoned recommendations on product development directions, priorities, and methods for hypothesis verification, taking into account resource constraints, business value, and risk.	[SK1] oral statement/conversation/discussion [SK8] observation of student's independent or team work
	[FiRMU2_K07] The student is ready to critically evaluate the knowledge he possesses and the content he receives, to recognize the importance of expertise in solving complex cognitive and practical problems in finance and accounting, and to consult experts when he/she has difficulty solving a problem on his own.	When encountering difficulties, students can seek advice from experts in finance and business economics and integrate that guidance into the decision-making process within the BizDevOps team.	[SK1] oral statement/conversation/discussion [SK8] observation of student's independent or team work
	[ZARZMU2_W04] The student has an extended knowledge of the enterprise environment, its factors and changes occurring in this area, as well as the relations, significance and influence of the environment and stakeholders on the functioning of the enterprise. The student has expanded knowledge of tools for diagnosing macro- and micro-environment.	The student understands the tools and techniques of effective BizDevOps collaboration, integrating business, development, and operations to deliver value.	[SW1] oral statement/conversation/discussion
	[IiEMU2_W06] The student is familiar with advanced methods of assessing the effectiveness of business operations.	The student knows and understands agility scaling techniques (e.g., scaling frameworks) in the context of digital product development.	[SW1] oral statement/conversation/discussion
	[IiEMU2_U08] The student can analyse business needs and, as appropriate, configure and apply modern information and communication technologies in business management and business communication.	The student can define and verify business needs, transforming them into clear requirements and product hypotheses.	[SU1] oral statement/conversation/discussion [SU8] observation of student's independent or team work
Subject contents	<ol style="list-style-type: none"> Scalable Agile based on the SAFe methodology (introduction and PI Planning simulation), April 9, 2026, led by: Lech Babula, Jakub Olszak From vision to code. How to translate business needs into technical requirements, April 16, 2026, led by: Katarzyna Minkiewicz, Adam Popiel A agile approach to testing (shift left testing) in a modern team, April 23, 2026, led by: Iwona Samel-Rutkowska, Marek Szczerkowski BizDevOps, April 28, 2026, led by: Katarzyna Bieszk, Justyna Górka 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Class attendance	51.0%	50.0%
	Taking quizzes on Kahoot	51.0%	50.0%
Recommended reading	Basic literature	SAFe Explained E-book: https://scaledagile.com/resources/safe-explained-ebook/ Mapowanie historyjek użytkownika. Przepis na produkt idealny Jeff Patton Marketing Success Through Differentiation of Anything - Theodore Levitt Design Thinking - Tim Brown Customer Centricity: Focus on the Right Customers for Strategic Advantage Peter Fader DevOps. Światowej klasy zwinność, niezawodność i bezpieczeństwo w Twojej organizacji - Patrick Debois, Jez Humble, Gene Kim, John Randolph Willis Projekt Feniks. Powieść o IT, modelu DevOps i o tym, jak pomóc firmie w odniesieniu sukcesu - Gene Kim, George Spafford	
	Supplementary literature	n/a	

	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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