

Subject card

Subject name and code	Integrated Digital Product Development: Scaling Agility, Business Needs Analysis, Testing, and BizDevOps Collaboration, PG_00213303						
Field of study	Finance and Accounting, Informatics and Econometrics, Management						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Optional 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						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		2.0		18.0	50
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
	[IiEMU2_U09] The student can independently plan and implement the process of learning and improving professional skills in econometrics, informatics or statistics throughout life and guide others in this regard.	The student is able to independently plan and carry out the process of learning new, scalable agile practices (e.g. the SAFe framework) as well as testing methods and BizDevOps collaboration, including critically assessing their own competencies in this area and identifying areas for further professional development, and is able to share the acquired knowledge and guide other project team members in the process of learning these practices.	[SU8] observation of student's independent or team work
	[FiRMU2_U09] The student can independently plan and implement the process of learning and improving professional skills in lifelong management and guide others in this area.	The student is able to independently plan and carry out the process of learning new, scalable agile practices (e.g. the SAFe framework) as well as testing methods and BizDevOps collaboration, including critically assessing their own competencies in this area and identifying areas for further professional development, and is able to share the acquired knowledge and guide other project team members in the process of learning these practices.	[SU8] observation of student's independent or team work
	[IiEMU2_W10] Student possesses a deeper understanding of the essential dilemmas of modern civilization, particularly concerning the IT development.	The student has an in-depth knowledge and understanding of the dilemmas accompanying the scaling of agile software development methods (e.g. the tension between the speed of delivering solutions and quality control/process predictability) and of the challenges of integrating the business and technology domains (BizDevOps), understood as contemporary civilizational dilemmas of significant importance for business decision-making in the development of digital products.	[SW4] test/exam - oral or written
	[FiRMU2_W10] The student possesses a comprehensive understanding of modern civilization's fundamental dilemmas from the perspective of finance and accounting.	The student has an in-depth knowledge and understanding of the dilemmas accompanying the scaling of agile software development methods (e.g. the tension between the speed of delivering solutions and quality control/process predictability) and of the challenges of integrating the business and technology domains (BizDevOps), understood as contemporary civilizational dilemmas of significant importance for business decision-making in the development of digital products.	[SW4] test/exam - oral or written
	[ZARZMU2_U09] The student can independently plan and implement the learning process, improve professional skills in lifelong management, and guide others in this area.	The student is able to independently plan and carry out the process of learning new, scalable agile practices (e.g. the SAFe framework) as well as testing methods and BizDevOps collaboration, including critically assessing their own competencies in this area and identifying areas for further professional development, and is able to share the acquired knowledge and guide other project team members in the process of learning these practices.	[SU8] observation of student's independent or team work

	Course outcome	Subject outcome	Method of verification
	[ZARZMU2_W10] The student possesses a comprehensive understanding of the key dilemmas of modern civilization and their importance in business decision-making contexts.	The student has an in-depth knowledge and understanding of the dilemmas accompanying the scaling of agile software development methods (e.g. the tension between the speed of delivering solutions and quality control/process predictability) and of the challenges of integrating the business and technology domains (BizDevOps), understood as contemporary civilizational dilemmas of significant importance for business decision-making in the development of digital products.	[SW4] test/exam - oral or written
Subject contents	1. Scalable Agile based on the SAFe methodology (introduction and PI Planning simulation). 2. From vision to code. How to translate business needs into technical requirements. 3. A agile approach to testing (shift left testing) in a modern team, April 23. 4. BizDevOps		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Taking quizzes on Kahoot	51.0%	100.0%
	Class attendance	51.0%	0.0%
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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