

Subject card

Subject name and code	Software Project Organization, PG_00063884								
Field of study	Informatics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028			
Education level	first-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			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department Of Software Engineering -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej							natics ->	
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jakub Miler						
	Teachers	dr inż. Jakub Miler							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan				Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	To learn the organization and course of a software project based on various software development methodologies: agile Scrum, XP, Kanban, Nexus, SAFe, DevOps, and disciplined Rational Unified Process. To be able to select, adapt and combine methodologies and practices.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U11] can plan and organise individual and team work		Student plans the project following a selected agile or disciplined methodology Student organizes the project infrastructure and the team work			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[K6_U03] can design, according to required specifications, and make a simple device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment		Student runs the project following the selected agile or disciplined methodology Student develops the backlogs and plans following the methodologies			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[K6_U07] can apply methods of process and function support, specific to the field of study		Student realizuje projekt zgodnie z wybraną metodyką zwinną lub zdyscyplinowaną Student uses the agile documentation techniques to specify software and development plans Student uses the tools for methodologies			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			

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Subject contents	 Introduction to the subject Introduction to methodologies, classifications, challenges Project infrastructure - people, communication, documentation, tools Examples of projects, their course and work organization Agile mindset Scrum method - introduction, values, roles Scrum method - artifacts Scrum method - events XP method Kanban method Rational Unified Process methodology Scrum of Scrums, Nexus DevOps SAFe framework Selection of methodology for the project 					
Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Written exam	51.0%	40.0%			
	Project	51.0%	60.0%			
Recommended reading	Supplementary literature	 A. Koszlajda, Zarzadzanie Projektami IT Przewodnik po Metodykach, Helion, 2010 K. Schwaber, J. Sutherland, The Scrum Guide, The Definitive Guide to Scrum: The Rules of the Game, Scrum.org, 2020 M. Chrapko "Scrum. O zwinnym zarządzaniu projektami", Helion, 2012 K. S. Rubin "Scrum. Praktyczny przewodnik po najpopularniejszej metodyce Agile", Helion, 2013 M. Lacey "Scrum. Praktyczny przewodnik dla początkujących", Helion, 2014 K. Schwaber, Agile Project Management with Scrum, Microsoft Press, 2004 K. Beck, C. Andres, Wydajne programowanie. Extreme Programming, wyd. II, MIKOM, 2006 A. Cockburn, Agile Software Development. Gra zespołowa, wyd. II, Helion, 2008 J. Shore, S. Warden, Agile Development. Filozofia programowania zwinnego, Helion, 2008 P. Kruchten, The Rational Unified Process: An Introduction, 3rd edition, Addison-Wesley Professional, 2003 P. Kroll, P. Kruchten, The Rational Unified Process Made Easy: A Practitioner's Guide to the RUP, Addison-Wesley Professional, 2003 Rational Unified Process at IBM - www-01.ibm.com/software/awdtools/rup/ Manifesto for Agile Software Development, www.agilemanifesto.org K. Schwaber, M. Beedle, Agile Software Development with Scrum, Prentice Hall, 2001 				
	eResources addresses	 K. Beck, Extreme Programming Explained: Embrace Change, Addison-Wesley Professional, 1999 OpenUP process model, http://epf.eclipse.org/wikis/openup/, EPF Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed Work placement	Design the infrastructure for a software project Personas, scenarios, product backlog according to Scrum Sprint backlog according to Scrum Kanban board Sprint retrospective according to Scrum Selection of methodology for the project Not applicable					

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