

Subject card

Subject name and code	Software Project Organization, PG_00063884							
Field of study	Informatics							
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027			
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							
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	Projec	t	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30
	E-learning hours included: 0.0							
Loan mig douvity		Participation in classes include plan		Participation in consultation hours		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.							

Data wygenerowania: 22.11.2024 00:28 Strona 1 z 3

Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K6_W10] knows and understands to an advanced degree the basic processes occurring in the life cycle of equipment, objects and technical systems, as well as methods of supporting processes and functions, specific to the field of study	Student knows the methodologies of implementing IT projects in an agile and disciplined manner. Student understands the advantages and limitations of software development methodologies.	[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[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	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[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	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[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	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
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	, , ,		Percentage of the final grade 40.0%			
	Project	51.0% 51.0%	60.0%			
Recommended reading	Basic 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/ 				

Data wygenerowania: 22.11.2024 00:28 Strona 2 z 3

	Supplementary literature	 Manifesto for Agile Software Development, www.agilemanifesto.org K. Schwaber, M. Beedle, Agile Software Development with Scrum, Prentice Hall, 2001 K. Beck, Extreme Programming Explained: Embrace Change, Addison-Wesley Professional, 1999 OpenUP process model, http://epf.eclipse.org/wikis/openup/, EPF 		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed	 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 			
Work placement	Not applicable			

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Data wygenerowania: 22.11.2024 00:28 Strona 3 z 3