

Subject card

Subject name and code	Frameworks and tools for data engineers, PG_00064004								
Field of study	Data Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026				
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	2		Language of instruction			English			
Semester of study	4		ECTS credits		4.0				
Learning profile	general academic profile		Assessmer	nt form		exam			
Conducting unit	Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Grzegorz Gołaszewski						
	Teachers		dr inż. Grzegorz Gołaszewski						
			mgr inż. Marcin Kwiatkowski						
			mgr inż. Rafał Dobrosielski						
			dr inż. Adam Kaczmarek						
			dr inż. Michał Zawadzki						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	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	60		8.0		32.0		100	
Subject objectives	The aim of the course is to familiarize students with project management methodologies and methods and tools supporting the organization of work within these projects.								

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_W02] demonstrates advanced preparation in methods and techniques for formulating and solving problems	The student demonstrates advanced preparation in choosing project management methodology, methods, and tools supporting project organization. Additionally, the student formulates problem issues necessary to meet the assumed project goals.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge				
	[K6_U03] demonstrates professional and effective teamwork, both as a leader and as a team member	The student is able to work in a team, fulfilling specific roles defined for the selected project management methodology. The student is also able to use tools and methods supporting the organization of work in the project.	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task				
	[K6_K03] demonstrates the ability to think critically and analytically and integrates knowledge from many disciplines in order to make effective decisions	The student can make decisions regarding the work methodology, methods, and tools used to produce the product required in the project.	[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills [SK2] Assessment of progress of work				
Subject contents							
	Introduction to lightweight methodologies						
	2. Managing projects in Scrum3. Using code versioning tools4. Continuous integration5. Continuous deployment						
	6. Virtualization/containerization						
Prerequisites and co-requisites	Ability to program in at least one land	guage.					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
and Chlena	Tests Tasks' presentation	50.0%	50.0%				
Recommended reading	Tasks' presentation 50.0% 50.0%						
	Supplementary literature None						
	eResources addresses Podstawowe https://www.youtube.com/c/EltonStoneman - Various movies ab containers https://scrumguides.org/ - Scrum Guide Adresy na platformie eNauczanie:						
		ineers 2025_2026 - Moodle ID:					
	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42576						

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Example issues/ example questions/ tasks being completed	Prepare the Product Backlog using the given tool.
	Create and configure a code repository in the chosen Git tool
	3. Define the branch management policy
	4. Configure CI/CD
Work placement	Not applicable

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