

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Frameworks and tool	s for data engir	neers, PG_000	64004					
Field of study	Data Engineering								
Date of commencement of studies	October 2025		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				
Mode of study	Full-time studies		Mode of delivery			research in the field of study at the university			
Year of study	2		Language of instruction			English			
Semester of study	4		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form		exam				
Conducting unit	Department Of Software Engineering -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr inż. Grzegorz Gołaszewski						
of lecturer (lecturers)	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 includ 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.								

Learning outcomes	Course outcome	Subject outcome	Method of verification				
IKE	K03] demonstrates the ability	The student can make decisions	[SK2] Assessment of progress of				
to th and	integrates knowledge from y disciplines in order to make	regarding the work methodology, methods, and tools used to produce the product required in	work [SK1] Assessment of group work skills				
	ctive decisions	the project.	[SK3] Assessment of ability to organize work [SK5] Assessment of ability to				
[K6_U03] demonstrates professional and effective teamwork, both as a leader and as a team member			solve problems that arise in practice				
		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.	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment				
prep tech	_W02] demonstrates advanced baration in methods and nniques for formulating and ring 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.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects				
Subject contents							
1. Int	1. Introduction to lightweight methodologies						
2. Ma	 Managing projects in Scrum Using code versioning tools Continuous integration 						
3. Us							
4. Co							
5. Cc	 5. Continuous deployment 6. Virtualization/containerization 						
6. Vii							
Prerequisites Abilit	Ability to program in at least one language.						
and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria Tasl	ks' presentation	50.0%	50.0%				
Test	ts	50.0%	50.0%				
Recommended reading Basic	Basic literature Nigel Poulton, Docker Deep Dive: Zero to Docker in a single book, 2024 edition,						
	Stephanie Ockerman, Simon Reindl, Mastering Professional Sco Practitioners Guide to Overcoming Challenges and Maximizing Benefits of Agility (The Professional Scrum Series) 1st Edition						
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Supp	plementary literature	None					

Example issues/ example questions/ tasks being completed	1. Prepare the Product Backlog using the given tool.
	2. 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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