

Subject card

Subject name and code	Methods and Tools for Developers, PG_00063880								
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			Optional subject group 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			asses	assessment		
Conducting unit	Department of Software Engineering -> Faculty of Electronics Telecommunications and Informatics -> Wydziały Politechniki Gdańskiej								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Michał Zawadzki						
	Teachers		dr inż. Grzegorz Gołaszewski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	eNauczanie source addresses: Moodle ID: 43103 Metody i narzędzia pracy deweloperów 2026_2027 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=43103								
Learning activity and number of study hours	Learning activity	Participation in classes include 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 familiarize students with the methods and tools of developers' work.								
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		supporting them in both			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	[K6_U07] can apply methods of process and function support, specific to the field of study		At each stage of the software life cycle, the student can select and use appropriate tools for development, testing, and implementing software, as well as tools supporting the organization of cooperation.			[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			

Cubicat contents	1. Heing gode versioning tools							
Subject contents	Using code versioning tools							
	Continuous integration / continuous deployment							
	z. Continuous integration / continuous deployment							
	3. Development workflows							
	4. Virtualization / containerization							
	5. Selected DevOps tool							
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Prerequisites	Knowledge of sample programming languages							
and co-requisites								
	Basic knowledge of work organization in Agile methodologies.							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	Laboratoires	50.0%	50.0%					
	Lecture	50.0%	50.0%					
Recommended reading	Basic literature	Rob Cowell, Lars Malmqvist: Salesf	orce DevOps for Architects:					
J	Discover tools and techniques to optimize the delivery of your Salesforce projects, Packt Publishing, 2024							
		Nigel Poulton, Docker Deep Dive: Zero to Docker in a single book, 2024 edition,						
	Supplementary literature	Tools documentation						
	eResources addresses							
Example issues/								
example questions/ tasks being completed								
tasks being completed	1. Set up your CI/CD environment							
	2. Create and configure a code repo	ository in your chosen Git tool.						
	Create a docker environment for the selected software.							
Work placement	Not applicable							

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