

GDAŃSK UNIVERSITY

Subject card

Subject name and code	Applied software - team project, PG_00037523								
Field of study	Technical Physics								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2023/2024			
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	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			4.0			
Learning profile	general academic profile		Assessmer	Assessment form			assessment		
Conducting unit	Instytut Fizyki i Inform	natyki Stosowa	wanej -> Faculty of Applied Physics and Mathematics						
Name and surname	Subject supervisor		dr hab. inż. Marta Łabuda						
of lecturer (lecturers)	Teachers		dr hab. inż. Marta Łabuda						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0 60.0			0.0	75	
	E-learning hours inclu	g hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes includ	I didactic Participation in ed in study consultation hours		n nours	Self-study SUM			
	Number of study hours	75		10.0		15.0		100	
Subject objectives	Knowledge about software implementation, testing, deployement and product service. To acquaint the student with the dangers of groupware, and with some collaboration tools. To acquaint thestudent with the concept of software quality and techniques of assurance this quality.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	K6_K04		The student knows project management software and tools.			[SK1] Assessment of group work skills			
	K6_U01		The student is able to independently obtain information from the given sources.			[SU1] Assessment of task fulfilment			
	K6_W05		The student knows the threats resulting from the group work and knows the project management tools used for organization of the group work. The student knows the software quality specification. Student knows quality assurance techniques.			[SW1] Assessment of factual knowledge			
	K6_U03		The student is able to use the selected programming technology in his or her project.			[SU1] Assessment of task fulfilment			
	K6_K05		The student is able to present his or her project.			[SK4] Assessment of communication skills, including language correctness			
	K6_U02		The student is able to analyze the problem and solve it.			[SU4] Assessment of ability to use methods and tools			

Subject contents	Lecture.						
	The aim of the lecture is to expand knowledge of software engineering, with particular emphasis on the software development live cycle. Classic and agile models of software development will be discussed. Principles of group work, software testing and quality control methods, and selected modern programming techniques will be described as well. Project: Students implement (in groups of 3-5 persons) selected IT projects based on documentation (system requirements specification, system design, strategic schedule, etc.), starting from the prototyping stage, to implementation, testing and implementation of the finished product.						
Prerequisites and co-requisites	Ability to make an object-oriented programming; Knowledge of software engineering						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Project	50.0%	90.0%				
	Reports	50.0%	10.0%				
Recommended reading		R. Patton: Testowanie oprogramowania, Mikom, Warszawa, 2002I. Sommerville: Inżynieria oprogramowania, WNT 2003J. Górski (red.), Inżynieria oprogramowania w projekcie informatycznym, MIKOM 2000					
	Supplementary literature	List of the accessible homepages of the selected by students IT technologies in which the group project is prepared.					
	eResources addresses	Adresy na platformie eNauczanie: Oprogramowanie aplikacyjne 2023 - Moodle ID: 26802 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26802					
Example issues/ example questions/ tasks being completed	Project schedule						
	Reports of the work development						
	Implementation of the project						
	Testing						
Work placement	Not applicable						