



Subject card

Subject name and code	Team Project, PG_00033399						
Field of study	Automation, Robotics and Control Systems						
Date of commencement of studies	February 2022	Academic year of realisation of subject				2022/2023	
Education level	second-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	1	Language of instruction				Polish	
Semester of study	2	ECTS credits				4.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Robert Smyk				
	Teachers		dr inż. Robert Smyk				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	60.0	0.0	60
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	60		15.0		25.0	100
Subject objectives	The aim of the course is to familiarize you with the methodologies of conducting an engineering project, in particular with the fields of Automation and IT. The student learns the methods of correct formulation of such elements as the topic purpose, scope of the project. The student learns and learns to implement modern IT project management methodologies.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	K7_U13		Can use tools to present design assumptions.			[SU4] Assessment of ability to use methods and tools	
	K7_U02		Knows the basic rules of performing tasks in a team.			[SU2] Assessment of ability to analyse information	
	K7_W07		Knows the basic template of project management.			[SW1] Assessment of factual knowledge	
Subject contents	Formulating the topic, scope of the project goal, the ability to verify, the ability to consult a group co-workers. Getting to know the techniques of project management. Develop or select one of recommended project topics. Development of project documentation in accordance with the selected methodology running projects. Agile methodologies for running IT projects, developing an array of ideas (inception desk), developing a shortened list of the most important functional requirements and non-functional, analysis of the list of non-performed tasks, analysis of the environment, development of a scheme block solution (show the solution), analysis of mutual relations between factors and such as time, scope, budget, quality, time parameters of the project implementation (size it up), parameters related to risk (up at night). Using the Scrum framework.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	development of project documentation		50.0%			50.0%	
	development and presentation presentation		50.0%			50.0%	

Recommended reading	Basic literature	<p>Andrzej Jaskiewicz, Inżynieria oprogramowania, helion</p> <p>Marcin Żmigrodzk, Zarządzanie projektami dla początkujących. Jak zmienić wyzwanie w proste zadanie. Wydanie II, helion</p> <p>Marek Krzemiński, Agile. Szybciej, łatwiej, dokładniej, helion</p>
	Supplementary literature	<p>Collier, Ken W. (2011). <i>Agile Analytics: A Value-Driven Approach to Business Intelligence and Data Warehousing</i>. Pearson Education. pp. 121</p> <p>Beck, Kent M.; Beedle, Mike; Bennekum, Arie van; Cockburn, Alistair; Cunningham, Ward; Fowler, Martin; Grenning, James; Highsmith, Jim; Hunt, Andy; Jeffries, Ron; Kern, Jon; Marick, Brian; Martin, R. C.; Mellor, Steve J.; Schwaber, Ken; Sutherland, Jeff; Thomas, Dave. "Manifesto for Agile Software Development". <i>Undefined</i>. S2CID. 109006295</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>Work out the 'Up at night' point. Think about what is the most risky to take project implementation. Note that the overall risk of a project not being completed is always there - this is not the risk here. Rather think about all of them. The points developed so far give a fairly complete picture of the project. Maybe something should be detailed? Or maybe something couldn't be more detail at this stage? Perhaps this is what makes some particular risky stage? Try to identify such a stage and describe it. Maybe there are such stages /more points?</p>	
Work placement	Not applicable	