



Subject card

Subject name and code	Interdisciplinary One Year Project - Part 1, E:41026P0							
Field of study	Space and Satellite Technologies							
Date of commencement of studies	February 2025		Academic year of realisation of subject		2024/2025			
Education level	second-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery		at the university			
Year of study	1		Language of instruction		English			
Semester of study	1		ECTS credits		6.0			
Learning profile			Assessment form		assessment			
Conducting unit	Department of Geoinformatics -> Faculty of Electronics Telecommunications and Informatics -> Wydział Politechniki Gdańskiej							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Marek Moszyński					
	Teachers		dr hab. inż. Marek Moszyński					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar		
	Number of study hours	0.0	0.0	0.0	60.0	0.0		
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		SUM		
	Number of study hours	60		0.0		60		
Subject objectives	To gain by students a practical understanding of the organization and implementation of interdisciplinary space projects as well as of specific space systems engineering methodologies, tools and frameworks.							
Learning outcomes	Course outcome		Subject outcome		Method of verification			
	[K7_K01] is aware of the constant necessity of improving and broadening their knowledge; can inspire and organise the teaching and learning process.		Student is aware of the need to continuously supplement and expand his knowledge related to the implementation of interdisciplinary space projects.		[SK5] Assessment of ability to solve problems that arise in practice			
	K7_U08		He is able to implement particular tasks related to interdisciplinary space project as described in the course contents.		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	K7_U02		He has the ability to communicate effectively while implementing an interdisciplinary space project.		[SU5] Assessment of ability to present the results of task			
	K7_W04		Student has knowledge of the organization and methodology with respect to the implementation of a space project and the design of space missions.		[SW1] Assessment of factual knowledge			
Subject contents	Students deal with the realistic systems in the space domain in the context of teamwork and customer requirements based on the research activities of the university institutes or business partners. The contents are e.g. <ul style="list-style-type: none">• Use the methods and principles of Space Systems Engineering• Work according to Systems Engineering processes• Define Systems Engineering roles• Use relevant norms and standards (especially ECSS Space Standards)• Perform all necessary phases (Requirements Engineering, System Architecture and Component Design, Development, Verification & Validation) using classical and/or agile methods• Define necessary operational concepts (Operations, Maintenance, Evolution, Quality management, Reuse, Disposal) Use project management methods and tools (both classical and agile according to the context)							

Prerequisites and co-requisites	-				
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	Project	50.0%	100.0%		
Recommended reading	Basic literature	Students will receive a reading list at the beginning of the semester.			
	Supplementary literature	-			
	eResources addresses				
Example issues/ example questions/ tasks being completed	-				
Work placement	Not applicable				

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