

## Subject card

Subject name and code	Electrical and Software Systems Engineering, E:41020W0								
Field of study	Space and Satellite Technologies								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2023/2024			
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			2.0			
Learning profile			Assessment form			assessment			
Conducting unit	Katedra Inteligentnych Systemów Sterowania i Wspomagania Decyzji -> Faculty of Electrical and Control Engineering								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Tomasz Zubowicz						
	Teachers		dr inż. Tomasz Zubowicz						
	dr inż. Bartosz Puchalski								
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 inclu	uded: 0.0				i			
Learning activity and number of study hours	Learning activity Participation in classes include plan					Self-study SL		SUM	
	Number of study 30 hours		0.0		0.0 30				
Subject objectives	To familiarise students with basic concepts and principles of electrical systems engineering.								
Learning outcomes	Course out	Course outcome		Subject outcome			Method of verification		
	[K7_K03] Can analyse and implement assigned tasks while maintaining high technical standards. Is able to work and interact in a group, taking on different roles. Adheres to the principles of professional ethics and respects the diversity of views and cultures.		Student implements his tasks related to control design maintaining high technical standards.			[SK5] Assessment of ability to solve problems that arise in practice			
	K7_U07		He is able to estimate costs in software and electrical engineering.			[SU2] Assessment of ability to analyse information			
	K7_W06		Student has the knowledge on development trends in electric systems and software engineering.			[SW1] Assessment of factual knowledge			
	K7_W07		Student has knowledge of the typical steps and milestones in software and electrical engineering.			[SW1] Assessment of factual knowledge			
	K7_W10		He knows technical standards in software and electrical engineering.		[SW1] Assessment of factual knowledge				
	K7_U08		Student can implement tasks from software and electrical engineering.			[SU1] Assessment of task fulfilment			
Subject contents	Basic concepts of systems engineering; Principles of electrical systems engineering; Principles of software systems engineering for electrical systems.								
Prerequisites and co-requisites	-								

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Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	exam	50.0%	50.0%			
	laboratory	50.0%	50.0%			
Recommended reading	Basic literature	Students will receive a reading list at the beginning of the semester.				
	Supplementary literature	-				
	eResources addresses	Adresy na platformie eNauczanie:				
		Electrical and Software Systems Engineering [WIMiO][2023/24 Moodle ID: 38636 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=3863				
Example issues/ example questions/ tasks being completed	-					
Work placement	Not applicable					

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