GDAŃSK UNIVERSITY OF TECHNOLOGY

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 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	2.0
Learning profile		Assessment form	assessment

Conducting unit	Department Of Intelligent And Decision Support Systems -> Faculty Of Electrical And Control Engineering -> Wydziały Politechniki Gdańskiej

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	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0	30
	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	30	0.0	0.0	30

Subject objectives	To familiarise students with basic concepts and principles of electrical systems engineering.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	K7_U08	Student can implement tasks from software and electrical engineering.	[SU1] Assessment of task fulfilment
	K7_W10	He knows technical standards in software and electrical 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_W06	Student has the knowledge on development trends in electric systems and software engineering.	[SW1] Assessment of factual knowledge
	K7_U07	He is able to estimate costs in software and electrical engineering.	[SU2] Assessment of ability to analyse information
	[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

Subject contents	Basic concepts of systems engineering; Principles of electrical systems engineering; Principles of software systems engineering for electrical systems.
Prerequisites and co-requisites	-

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	laboratory	50.0%	50.0%
	exam	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][2024/25] - Moodle ID: 45865 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45865

Example issues/ example questions/ tasks being completed	-

Work placement	Not applicable

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