GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Adaptive Filter Design, E:41045W0		
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. Bartosz Puchalski	
	Teachers	dr inż. Bartosz Puchalski dr inż. Tomasz Zubowicz mgr inż. Mateusz Czyżniewski	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	15.0	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 familiarize students with theoretically and practically with the adaptive filter design.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K7_W06	Student has the knowledge on concepts of adaptive filter design and implementation.	[SW1] Assessment of factual knowledge
[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 supplement and expand the knowledge on filter design.	[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice
K7_U09	He uses appropriate methods and tools for adaptive filter design.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools

Subject contents

Basic concepts of adaptive filter design and implementation; Principles of adaptive filtering and signal processing.

Prerequisites and co-requisites

-

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
exam	50.0%	50.0%
project	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: Adaptive filter design [2024/25] - Moodle ID: 45868 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45868

Example issues/ example questions/ tasks being completed

-

Work placement	Not applicable

Document generated electronically. Does not require a seal or signature.