GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Space Security Technologies, PG_00050013		
Field of study	Space and Satellite Technologies		
Date of commencement of studies	February 2026	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	Obligatory subject group 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	1	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Grzegorz Krasnodębski	
	Teachers	dr hab. Grzegorz Krasnodębski	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	15.0	0.0	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	5.0	15.0	50

Subject objectives

Obtaining the knowledge on space technologies used in security and defense

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W07] Has knowledge of technical standards and norms in the space sector. Knows the objectives, main programs and principles of functioning of the European (ESA) and national (POLSA) institutions regulating, supervising and stimulating activity in the space industry. Knows space and satellite applications in security systems.	Student knows the rules of security and safety policy with respect to space and satellite technologies, on national and European level.	[SW1] Assessment of factual knowledge
[K7_K02] Understands the non-technical aspects of activities in the field of space and satellite technologies, including their social consequences and impact on the state of the environment. Expresses opinions on the development of technology and related risks.	Student understands the non-technical aspects of activities in the field of space safety technologies and systems, including their social consequences and impact on the state of the environment.	[SK3] Assessment of ability to organize work
[K7_U08] Considers safety aspects when solving a specific engineering problem in the field of space and satellite technologies.	Student is able to take into account the safety aspects while solving an engineering problem in the field of space and satellite technologies.	[SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

Space policy. Global Monitoring for Environment and Security. Satellite systems of monitoring and early warning. Satellite communications services for civil protection systems, e-government and search and rescue actions. Space systems for risk prevention. Military satellite systems.

Prerequisites and co-requisites

none

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		50.0%	20.0%
		50.0%	30.0%
		50.0%	50.0%
Recommended reading	Basic literature	Specht C., System GPS (in Polish), Biblioteka Nawigacji series, Bernardinum, Pelplin 2007	
	Supplementary literature	Technical documentation of selected space and satellite systems used in security and defense	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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