



Subject card

Subject name and code	Space technologies as the development of aviation including avionics factor, E:41042W0						
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 Geoinformatics -> Faculty of Electronics Telecommunications and Informatics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Zbigniew Łubniewski				
	Teachers		dr hab. inż. Zbigniew Łubniewski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	15.0	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 basically with aviation and avionics.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K7_W06		The student has basic knowledge of aviation and avionics related to space technologies.		[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
	[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.		He implements tasks related to aviation and avionics while maintaining high technical standards.		[SK4] Assessment of communication skills, including language correctness [SK2] Assessment of progress of work		
	K7_U13		Student knows the basics of avionics, including the on-board instruments on aircraft.		[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment		
Subject contents	Course content – lecture Introduction to aviation and space; Space technology as a branch derived from aviation; The development of on-board instruments and avionics from pioneering times of aviation to the conquest of space; Basics of the human factor in aviation and space technology; Genesis and development of the spacecraft; Basics of the space architecture; Basics of the space policy; Space agencies and forces of the world; Basic knowledge of the Earth's atmosphere and near outer space.						
Prerequisites and co-requisites	-						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	seminar presentation		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						

Example issues/ example questions/ tasks being completed	-
Practical activities within the subject	Not applicable

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