



Subject card

Subject name and code	Law and safety of flights, PG_00053256						
Field of study	Geodesy and Cartography						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
Education level	first-cycle studies		Subject group		Optional subject group		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Marek Pszczola				
	Teachers		dr inż. Karolina Makowska-Jarosik				
			dr hab. inż. Marek Pszczola				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	0.0	0.0	45
	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	45		4.0		51.0	100
Subject objectives	The aim of the course is to provide students with knowledge on the legal basis for conducting flights using unmanned aerial vehicles.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W06] has a well-grounded knowledge and understands geodesy concepts including the main methods of obtaining data about space together with the surveying and computational methods, which from the one hand are compatible with the current legal status and from the other hand refer to measurements on the plane and cover the use of modern geodetic instruments, with taking into account the curvature of the Earth and the impact of gravity on the maner of measurements and results		The student has knowledge and is able to apply the principles of safe performance of geodetic measurements using unmanned aerial vehicles.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
	[K6_K02] is ready to solve problems related to the profession of geodesy and cartography engineer and to assess risks and effects of the performed activity		The student has knowledge and uses the skills as a geodetic and cartographic engineer in the field of performing measurements using ubmanned aerial vehicles.		[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W13] has basic knowledge and understands concepts in the field of non-technical conditions of engineering activities as well as occupational safety and health regulations in the profession of geodesy engineer		The student has knowledge and is able to apply the principles of safe performance of geodetic measurements using unmanned aerial vehicles.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		

Subject contents	Lecture:1. Aviation regulations and administration2. Unmanned flights in Polish airspace3. Human factor in aviation4. Airspace structure5. Counteracting threats that may affect flight safety6. Procedures performed in emergency and dangerous situations7. Risk analysisExercises:1. Unmanned flights in Polish airspace2. Risk analysis		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Passing the exercises	50.0%	40.0%
	Colloquium of lectures	50.0%	60.0%
Recommended reading	Basic literature	1. Act of 3 July 2002 - Aviation Law (Journal of Laws 2002 No. 130item 1112, as amended)2. Announcement of the Minister of Infrastructure of 3 July 2019on the announcement of the uniform text of the regulation of the Minister ofTransport, Construction and Maritime Economy on the exclusionof the application of certain provisions of the Aviation Law to certain types of aircraft and specifying the conditions andrequirements for the use of these aircraft.	
	Supplementary literature	Literature recommended by the teacher during classes.	
	eResources addresses	Uzupełniające Adresy na platformie eNauczanie: Prawo i bezpieczeństwo wykonywania lotów (R.A. 2024/2025) - Moodle ID: 37453 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37453	
Example issues/ example questions/ tasks being completed	1. Discuss the structure of airspace.2. Discuss the SORA risk assessment methodology.3. Discuss the role of air traffic services.		
Work placement	Not applicable		

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