

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 2021		Academic year of realisation of subject			2023/2024				
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	Subject supervisor dr hab. inż. Marek Pszczoła									
of lecturer (lecturers)	Teachers	chers dr hab. inż. Marek Pszczoła dr inż. Karolina Makowska-Jarosik								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM		
	Number of study hours	30.0	15.0	0.0	0.0		0.0	45		
		-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	ity Participation in did classes included i plan		Participation in consultation hours		Self-study		SUM		
	Number of study hours	45		4.0		51.0		100		
Subject objectives	The purpose of the course is to provide students the knowledge of the legal basis of flights performed with unmanned aerial vehicles.									
Learning outcomes	Course outcome		Subject outcome		Method of verification					
	[K6_W06] has a well knowledge and under geodesy concepts in main methods of obtabout space togathe surveying and compumethods, which from are compatible with tegal status and from hand refer to measure the plane and cover modern geodetic instaking into account the gravity on the maner measurements and reseasurements and reseasurements.	Student possess the knowledge and uses the legal acts which regard carrying out the measurements through the use of unmanned aerial vehicles.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects					
	[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 possess the knowledge and is able to apply the principles of safe surveying with the use of unmanned aerial vehicles.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects				
	[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 is able to analyze the risk associated with the use of unmanned aerial vehicles in geodetic measurements.			[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work				

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Subject contents	Lecture:						
	1. Legal acts and Aviation Administration 2. The unmanned flights in Polish airspace 3. The human factor in aviation 4. The structure of the airspace 5. Counteracting threats that may affect flights safety 6. Procedures performed in an emergency and dangerous situations 7. Risk analysis						
	Classes:						
	The unmanned flights in Polish airspace Risk analysis						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Test	50.0%	60.0%				
	Getting the positive evaluation from classes	50.0%	40.0%				
Recommended reading	Basic literature	1. The act of law: Ustawa z dnia 3 lipca 2002 r. Prawo lotnicze (Dz. U. 2002 Nr 130 poz 1112, with later amendments) (in Polish) 2. The act of law: Obwieszczenie Ministra Infrastruktury z dnia 3 lipca 2019 r. w sprawie ogłoszenia jednolitego tekstu rozporządzenia Ministra Transportu, Budownictwa i Gospodarki Morskiej sprawie wyłączenia zastosowania niektórych przepisów ustawy - Prawo lotnicze do niektórych rodzajów statków powietrznych oraz określenia warunków i wymagań dotyczących używania tych statków. (in Polish) Literature recommended by a teacher during lectures.					
	Supplementary literature						
	eResources addresses	Adresy na platformie eNauczanie: Prawo i bezpieczeństwo wykonywania lotów (2023/2024) - Moodle ID: 30246 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30246					
Example issues/ example questions/ tasks being completed	Discuss the structure of the airspace. Discuss the SORA risk assessment. Discuss the role of air traffic services.						
Work placement	Not applicable						

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