



Subject card

Subject name and code	Law and safety of flights, PG_00053256						
Field of study	Prawo i bezpieczeństwo wykonywania lotów						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
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 -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Marek Pszczoła				
	Teachers		dr inż. Karolina Makowska-Jarosik				
			dr hab. inż. Marek Pszczoła				
Lesson types	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						
	eNauczanie source addresses: Moodle ID: 46534 Prawo i bezpieczeństwo wykonywania lotów (R.A. 2025/2026) https://enauczanie.pg.edu.pl/moodle/course/view.php?id=46534						
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 manner 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.	[SW1] Ocena wiedzy faktograficznej [SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym
	[K6_W13] has 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 possesses knowledge of, and applies, the legal acts relating to the performance of measurements using unmanned aerial vehicles.	[SW1] Ocena wiedzy faktograficznej [SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym
	[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 unmanned aerial vehicles. The student is able to analyze the risk associated with the use of unmanned aerial vehicles in geodetic measurements.	[SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce [SK2] Ocena postępów pracy
Subject contents	Lecture:		
	1. Aviation regulations and administration 2. Unmanned flights in Polish airspace 3. Human factor in aviation 4. Airspace structure 5. Counteracting threats that may affect flight safety 6. Procedures performed in emergency and dangerous situations 7. Risk analysis		
Prerequisites and co-requisites	Exercises:		
	1. Unmanned flights in Polish airspace 2. Requirements to be fulfilled by unmanned aerial vehicles 3. Risk analysis		
Assessment methods and criteria			
	Subject passing criteria	Passing threshold	Percentage of the final grade
	Colloquium of lectures	50.0%	60.0%
	Passing the exercises	50.0%	40.0%

Recommended reading	Basic literature	<p>1. Act of 3 July 2002 - Aviation Law (Journal of Laws 2002 No. 130item 1112, as amended)</p> <p>2. Announcement of the Minister of Infrastructure of 3 July 2019 on the announcement of the uniform text of the regulation of the Minister of Transport, Construction and Maritime Economy on the exclusion of the application of certain provisions of the Aviation Law to certain types of aircraft and specifying the conditions and requirements for the use of these aircraft.</p> <p>3. Commission Delegated Regulation (EU) 2019/945 of 12 March 2019 on unmanned aircraft systems and on third-country operators of unmanned aircraft systems</p> <p>4. Commission Implementing Regulation (EU) 2019/947 of 24 May 2019 on the rules and procedures for the operation of unmanned aircraft</p>
	Supplementary literature	Literature recommended by the teacher during classes.
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>1. Discuss the structure of airspace.</p> <p>2. Discuss the SORA risk assessment methodology.</p> <p>3. Discuss the role of air traffic services.</p>	
Practical activities within the subject	Not applicable	

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