

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 2020		Academic year of realisation of subject			2022/2023			
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									
Name and surname	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering Subject supervisor dr hab. inż. Marek Pszczoła								
of lecturer (lecturers)	Teachers		dr hab. inż. Marek Pszczoła						
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		dr inż. Tadeusz Widerski							
			dr inż. Karol Daliga						
			dr inż. Karolina Makowska-Jarosik						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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 classes include plan				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_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			
	engineering activities as well as occupational safety and health regulations in the profession of geodesy engineer		knowledge and is able to apply the principles of safe surveying with the use of unmanned aerial vehicles.			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_W06] has a well-grounded knowledge and understands geodesy concepts including the main methods of obtaining data about space togather with the surveying and computional 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		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				

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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. Separation the zone for BVLOS operations 5. The structure of the airspace 6. Counteracting threats that may affect flights safety 7. Procedures performed in an emergency and dangerous situations 8. Risk analysis						
	Classes:						
	Separating the zone for BVLOS operations Obtaining the information on airspace structures and their activities Obtaining the required approvals and contacting with air traffic services						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Getting the positive evaluation from classes	50.0%	40.0%				
	Test	50.0%	60.0%				
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)					
	Supplementary literature	Literature recommended by a teacher during lectures.					
	eResources addresses						
Example issues/ example questions/ tasks being completed	1. Discuss the structure of the airspace. 2. Discuss the SORA risk assessment. 3. Discuss the role of air traffic services.						
Work placement	Not applicable						

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