



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 of lecturer (lecturers)	Subject supervisor		dr hab. inż. Marek Pszczoła				
	Teachers		dr hab. inż. Marek Pszczoła				
			dr inż. Karolina Makowska-Jarosik				
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 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-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		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		

Subject contents	Lecture: <div><div>1. Legal acts and Aviation Administration</div><div>2. The unmanned flights in Polish airspace</div><div>3. The human factor in aviation</div><div>4. The structure of the airspace</div><div>5. Counteracting threats that may affect flights safety</div><div>6. Procedures performed in an emergency and dangerous situations</div><div>7. Risk analysis</div></div> 		
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