



Subject card

Subject name and code	SPECIALIZATION PRACTICE, PG_00044844						
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	6	ECTS credits			6.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jakub Szulwic				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	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	0	5.0		160.0		165
Subject objectives	The objective of specialized student internships is to enable students to practically apply the knowledge they acquire by participating in geodetic surveys, cartographic compilations, or the development of geoinformatics applications. Students may also be involved in the process of approval or management of documentation, both from the perspective of the enterprise and the administrative office.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U13] is able to apply the principles of health and safety at work during the execution of geodetic works	The student familiarizes themselves with the occupational health and safety (OHS) regulations in enterprises, offices, or institutions related to the specifics of a surveyor's work.			[SU1] Assessment of task fulfilment		
	[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 becomes acquainted with the specifics of operating a geodetic enterprise or a geodetic department within an office or institution, and participates in the execution of current geodetic tasks.			[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	To achieve a minimum of four topics: measurement situation and altitude (for investments linear and area), the assumption matrix metering, setting and measuring the warp implementation, measurement engineering structures, setting an object on the ground, the measurement of post-completion, measurement control points in detail, preparation and conduct of division of property, keeping a register of land and buildings , control measures, monitoring of construction works, construction laser scanning, photogrammetry development stereogram images, preparation and photogrammetric measurement matrix, preparation of maps, preparation of data for SIP, SIP modeling, geocoding objects, create algorithms surveying / geo, geo-building applications, analysis of source materials , the verification of the legal status of real estate / investments, development of technical documentation, the creation or analysis of tender documents for the work of surveying / mapping.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	report	60.0%			30.0%		
	conversation	60.0%			70.0%		

Recommended reading	Basic literature	Current legislation from the website of the Central Office of Geodesy and Cartography: http://www.gugik.gov.pl
	Supplementary literature	no requirements
	eResources addresses	Adresy na platformie eNauczenie:
Example issues/ example questions/ tasks being completed	Paving of the building on the ground, Preparation and execution of situational-altitude measurement. Analysis of source materials for the division of property. Implementation of the development in the field of spatial information systems. The development of photogrammetric images using non-metric. The development of digital terrain model based on LiDAR data.	
Work placement	Field exercises	