

Subject card

Subject name and code	Geodesy, PG_00042796								
Field of study	Environmental Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor dr inż. Karol Daliga								
of lecturer (lecturers)	Teachers		dr inż. Tadeusz Widerski						
		dr inż. Karol Daliga							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	15.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		5.0		20.0		55	
Subject objectives	Knowledge and acquisition of knowledge and skills in the field of basic geodetic issues in application for the needs of environmental engineering.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U02] can work individually and in a team; knows how to estimate the time needed to complete the task ordered; is able to develop and implement a work schedule that ensures deadlines		The student is individual / body able to plan and implement in a limited range measurements / prepare appropriate documentation according to the prepared schedule.			[SU1] Assessment of task fulfilment			
			Gaining the skills to perform basic geodetic and control calculations. Acquiring the ability to use basic geodetic instruments, acquiring the ability to obtain information from documentation related to the execution of geodetic works and maps for design purposes.			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools			
	[K6_W16] has basic knowledge of geodesy in the range of applied measurement equipment and techniques, geodetic information systems and documentation necessary in the preparation process, investment implementation		The student has a basic knowledge of geodetic control networks, geodetic instruments, cartographic materials necessary during the implementation of the investment.			[SW1] Assessment of factual knowledge			
	[K6_U03] can prepare documentation regarding the implementation of an engineering task/project and prepare a text or presentation including a discussion of the results of the implementation		Student is able to plot a field sketch, keep a measurement diary. During the presentation of measurement results or calculations, he uses the rules used in geodesy.			[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task			

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Subject contents	Geodesy and cartography - its position as a discipline in theory and practice of engineering. Surveying service in Poland - Centres of Geodesy and Cartography Documentation and Companies of Reconciliation Documentation Design. The role and tasks of surveying in the process of realization investments. Survey instructions and technical guidance. Traditional and modern surveying instruments and new technologies (levels, theodolites, electronic station, GPS, scanners). Classification methods for leveling. The measurement of directions and angles calculation. Vertical measurements and situational. Direct and indirect measurements of length.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Test wrom exercises	60.0%	35.0%				
	Test from lecture	65.0%	55.0%				
	Raports from team works	90.0%	10.0%				
Recommended reading	Basic literature	Kurałowicz Z.: Geodezja - od taśmy mierniczej i krokiewki do GPS. G. Gdańsk 2021. Kurałowicz Z.: Geodezja - podstawowe obliczenia oraz wybrane ćwiczenia. P. G. Gdańsk 2014.					
	Supplementary literature	3. Żurowski A.: Ćwiczenia z geodezji. Praca zbiorowa. P.G. Gdańsk 1999					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Geodetic calculations. Geodetic documents. Geodetic equipment and its application. Measurement methods.						
Work placement	Field exercises						

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