

Subject card

Subject name and sade	Geodesy , PG_00059016								
Subject name and code									
Field of study	Environmental Engineering								
Date of commencement of studies	October 2022		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	Part-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			5.0			
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. Karol Daliga							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	oratory Project		Seminar	SUM	
	Number of study hours	15.0	5.0	15.0	0.0		0.0	35	
	E-learning hours inclu	ided: 0.0		1					
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	35	6.0			84.0		125	
Subject objectives	Learning and acquiring knowledge and skills in the field of basic geodetic issues as applied to the needs of environmental engineering.								
Learning outcomes	Course outcome Subject outcome Method of					Method of veri	f verification		
	[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		The student is able to draw a field sketch and keep a measurement log. When presenting the results of measurements or calculations, it uses the rules used in geodesy.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[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 able to plan and carry out measurements to a limited extent/prepare appropriate documentation according to a prepared schedule.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[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		Knows basic geodetic tasks, units and measures used in geodesy. The student has basic knowledge of geodetic networks, geodetic instruments, and cartographic materials necessary during the implementation of the investment.			[SW1] Assessment of factual knowledge			
[K6_U05] can apply in engineering practice the basic geodetic instruments and instruments, make measurement sketches and read information from the map and surveying documents		The student is able to perform easurements using the geometric leveling method and develop the results of these measurements. Can read the information contained in map.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment				
Subject contents	Geodesy and cartography - its position as a discipline in engineering theory and practice. The role and tasks of geodesy in the investment implementation process. Traditional and modern instruments for geodetic measurements (levels, theodolites, total stations, GNSS receivers, scanners, photogrammetry). Classification of leveling methods. Measuring directions and calculating angles. Situational and altitude measurements. Interpretation of the content of the map.								
Prerequisites and co-requisites									

Data wygenerowania: 14.04.2025 22:41 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Final colloquium from the lecture	60.0%	55.0%		
	Reports from laboratory classes	50.0%	20.0%		
	Final test for exercises	60.0%	25.0%		
Recommended reading	Basic literature	 Kurałowicz Z.: Geodezja - od taśmy mierniczej i krokiewki do GPS. P. G. Gdańsk 2021. Kurałowicz Z.: Geodezja - podstawowe obliczenia oraz wybrane ćwiczenia. P. G. Gdańsk 2022. Przewłocki S. Geodezja dla Inżynierii Środowiska. PWN. 1997 			
	Supplementary literature	 Žurowski A.: Ćwiczenia z geodezji. Praca zbiorowa. P.G. Gdańsk 1999 			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Basic geodetic calculations Operation and measurements with a technical leveler Theodolite operation and measurements Interpretation of map content Surface area measurement methods Methods of volume measurements and making cross-sections				
Work placement	Not applicable				

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Data wygenerowania: 14.04.2025 22:41 Strona 2 z 2