

Subject card

Subject name and code	Geodesy , PG_00059016							
Subject name and code Field of study	Environmental Engineering							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025		
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 [. Karol Daliga				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	aboratory Project		Seminar	SUM
of instruction	Number of study hours	15.0	5.0	15.0	0.0		0.0	35
	E-learning hours inclu	ided: 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	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.							he needs of
Learning outcomes	Course out					Method of verification		
	[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.			[SU1] Assessment of task fulfilment [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		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_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.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
	[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.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
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								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Final test for exercises	60.0%	25.0%		
	Reports from laboratory classes	50.0%	20.0%		
	Final colloquium from the lecture	60.0%	55.0%		
Recommended reading	Basic literature Supplementary 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 Żurowski 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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