

## Subject card

Subject name and code	Geodesy, PG_00042796							
Field of study	Environmental Engineering							
Date of commencement of studies	October 2024		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	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							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory			Seminar	SUM
	Number of study hours	15.0	15.0	0.0			0.0	30
La construe a effective	E-learning hours included: 0.0		ara-se- D-or or o		Self-study SUM		CUM	
Learning activity and number of study hours	Learning activity	Participation in classes includ plan			Participation in consultation hours		udy	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_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		sketch, keep a measurement diary. During the presentation of			[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information		
	[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					[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		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.			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
	to develop and implement a work		The student is individual / body			[SU1] Assessment of task fulfilment		
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.							

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Prerequisites and co-requisites					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Raports from team works	90.0%	10.0%		
	Test from lecture	65.0%	55.0%		
	Test wrom exercises	60.0%	35.0%		
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 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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