



## Subject card

Subject name and code	Geodesy, PG_00062608						
Field of study	Civil Engineering						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Tadeusz Widerski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	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	45		0.0		0.0	45
Subject objectives	Preparing the student to perform simple geodetic works in the area of a construction investment. Presentation of measurement methods and geodetic networks.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W04] Knows the rules of descriptive geometry and technical drawing for preparing and reading architectural, construction and geodetic drawings; also with the use of CAD		The student has the ability to read a technical drawing, is able to extract geometric information from the documentation at hand.		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U04] Reads and prepares construction documentation (including drawings, graphic documentation in the CAD environment), efficiently uses maps as well as architectural, construction and geodetic drawings.		The student has the ability to read and prepare project documentation. He/she is able to read geodetic mapping studies and prepare geodetic documentation.		[SU1] Assessment of task fulfilment		
Subject contents	Course content – lecture Methods of densification of geodetic points, stabilization of points, calculating the coordinates of points using the forward notches and the polar method. Hausbrandt symbols. Angle measurement methods. Trigonometric leveling. Tachymetry. Use of Total -Station in geodetic measurements.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
			60.0%		60.0%		
			100.0%		40.0%		

Recommended reading	Basic literature	<p>1 Andrzej Jagielski Geodezja I, Geodezja II, Stabil Kraków 2006.</p> <p>2 Michał Odlanicki- Poczebut Geodezja Podręcznik dla studiów inżyniersko -budowlanych. PPWK. Warszawa 1996.</p> <p>3 Adam Żurowski Ćwiczenia z geodezji. Praca zbiorowa. PG. Gdańsk 1999.</p>
	Supplementary literature	<p>1. Jerzy Ząbek, Zdzisław Adamczewski Ćwiczenia z Geodezji I Część I i II PWN Warszawa 1974.</p> <p>2. Zygmunt Kurałowicz Geodezja - podstawowe obliczenia oraz wybrane ćwiczenia PG Gdańsk 2009.</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>1. Calculation of the height of the leveling line points.</p> <p>2. Calculations of traverse points coordinates.</p> <p>3. Determination of the height of the hidden point.</p>	
Practical activities within the subject	Not applicable	

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