GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Geodesy, PG_00062608		
Field of study	Civil Engineering		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2023/2024
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		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Tadeusz Widerski	
	Teachers	dr inż. Tadeusz Widerski dr inż. Paweł Wysocki dr inż. Daria Filipiak-Kowszyk dr inż. Karol Daliga dr inż. Paweł Dąbrowski mgr inż. Kamil Łapiński	

Lesson types and methods of instruction

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

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	1 Andrzej Jagielski Geodezja I, Geodezja II, Stabil Kraków 2006. 2 Michał Odlanicki- Poczobut Geodezja Podręcznik dla studiów inżynieryjno -budowlanych. PPWK. Warszawa 1996. 3 Adam Żurowski Ćwiczenia z geodezji. Praca zbiorowa. PG. Gdańsk 1999.
	Supplementary literature	1. Jerzy Ząbek, Zdzisław Adamczewski Ćwiczenia z Geodezji I Część I i II PWN Warszawa 1974. 2. Zygmunt Kurałowicz Geodezja - podstawowe obliczenia oraz wybrane ćwiczenia PG Gdańsk 2009.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	1. Calculation of the height of the leveling line points. 2. Calculations of traverse points coordinates. 3. Determination of the height of the hidden point.	
Work placement	Not applicable	

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