

Subject card

Subject name and code	Geodesy, PG_00049145								
Field of study	Civil Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group			Optional subject group			
						Subject group related to scientific research in the field of study			
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			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. Tadeusz Widerski								
of lecturer (lecturers)	Teachers		dr inż. Tadeus	sz Widerski					
			dr inż. Daria Filipiak-Kowszyk						
			dr inż. Karolina Makowska-Jarosik						
			dr inż. Karol Daliga						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
Lesson types and methods of instruction	Number of study hours	15.0	15.0	15.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes including plan					Self-study		SUM	
	Number of study hours	45		1.0		4.0		50	
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 out	Subject outcome			Method of verification				
	[K6_W03] knows the rules of preparing and circulation of geodetic documentation for realisation of investment; has knowledge about basics of geodetical service of road&construction investments; knows methods of plans projection as well as geodetical equipment and technology used in construction		Student classifies methods of situational and height measurements. It uses Hausbrandt symbols in geodetic calculations.			[SW1] Assessment of factual knowledge			
	[K6_U15] is able to perform basic situational and elevetion measurements; can use geodetic instruments for altitude and situational measurement in a cinstruction site; can read geodetical maps and sketches		determines the coordinates of the network points using the backward and forward notches.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
Subject contents	Methods of densification of geodetic points, designing and setting up open and closed traverses, 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									

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Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
		100.0%	40.0%		
		60.0%	60.0%		
Recommended reading	Basic literature	Andrzej Jagielski Geodezja I, Geodezja II, Stabil Kraków 2006. Michał Odlanicki- Poczobut Geodezja Podręcznik dla studiów inżynieryjno -budowlanych. PPWK. Warszawa 1996. Adam Żurowski Ćwiczenia z geodezji. Praca zbiorowa. PG. Gdańsk 1999.			
	Supplementary literature	Jerzy Ząbek, Zdzisław Adamczewski Ćwiczenia z Geodezji I Część I i II PWN Warszawa 1974. Zygmunt Kurałowicz Geodezja - podstawowe obliczenia oraz wybrane ćwiczenia PG Gdańsk 2009.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Calculation of the height of the leveling line points. Calculations of traverse points coordinates. Determination of the height of the hidden point.				
Work placement	Not applicable				

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