



Subject card

Subject name and code	Geodesy, PG_00044395						
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		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	4		ECTS credits		5.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Department Of Geodesy -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr inż. Mariusz Chmielecki				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	10.0	15.0	10.0	0.0	0.0	35
	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	35		7.0		83.0	125
Subject objectives	<p>1.A Level, construction and leveling,</p> <p>2. Readings from staffs, checking the horizontal axis of the line of sight,</p> <p>3. Measurement of ordinates, staking out ordinates,</p> <p>4. Leveling sequences, execution and calculation,</p> <p>5. Electronic total stations, construction, preparation for work,</p> <p>6. The use of total stations in the practice of a civil engineer.</p>						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U15] is able to perform basic situational and elevation measurements; can use geodetic instruments for altitude and situational measurement in a construction site; can read geodetical maps and sketches		is able to perform basic situational and height measurements; is able to use geodetic instruments to perform a control height measurement and the location of the selected element on the site		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
	[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		knows the geodetic equipment and technologies used in civil engineering.		[SW3] Assessment of knowledge contained in written work and projects		

Subject contents	1. Level, construction and leveling, 2. Readings from staffs, checking the horizontal axis of the line of sight, 3. Measurement of ordinates, staking out ordinates, 4. Leveling sequences, execution and calculation, 5. Electronic total stations, construction, preparation for work, 6. The use of total stations in the practice of a civil engineer.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria exam, evaluation of reports.	Passing threshold 51.0%	Percentage of the final grade 100.0%
Recommended reading	Basic literature	Jan Gocał, "Geodezja inżynieryjno-przemysłowa".Kraków 2009. Lazzarini T. i inni: Geodezyjne pomiary przemieszczeń budowli i ich otoczenia,Warszawa 1977 Praca zbiorowa, "Poradnik Kierownika Budowy", Arkady W-wa, 1989.	
	Supplementary literature	Bryś H., Przewłocki S. "Geodezyjne metody pomiarów przemieszczeń budowli" - PWN Warszawa	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Construction of the level - laboratory Leveling the level - laboratory Calculations in leveling - lectures, laboratory Electronic total station - construction, principle of operation. - laboratory, Structure of the gsi file - lectures, laboratory, Application programs of total stations - lectures, laboratory.		
Work placement	Not applicable		

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