

## Subject card

Subject name and code	, PG_00062627								
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	Part-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Geodesy -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		mgr inż. Mariusz Chmielecki						
of lecturer (lecturers)	Teachers		mgr inż. Mariusz Chmielecki						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
of instruction	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 classes including plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	35		0.0		0.0		35	
	<ol> <li>Readings from staffs, checking the horizontal axis of the line of sight,</li> <li>Measurement of ordinates, staking out ordinates,</li> <li>Leveling sequences, execution and calculation,</li> <li>Electronic total stations, construction, preparation for work,</li> <li>The use of total stations in the practice of a civil engineer.</li> </ol>								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[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.		Student is able to create and use construction documentation - paper and electronic.		[SU2] Assessment of ability to analyse information				
	[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		Know the principles of geodetic drawings, also using CAD.			[SW3] Assessment of knowledge contained in written work and projects			

Data wygenerowania: 16.04.2025 21:47 Strona 1 z 2

Subject contents	Level, construction and leveling,							
	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,							
	<ul><li>5. Electronic total stations, construction, preparation for work,</li><li>6. The use of total stations in the practice of a civil engineer.</li></ul>							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	exam, evaluation of reports.	51.0%	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 levelel - laboratory							
table some some	Leveling the level - laboratory  Calculations in leveling - lectures, laboratory							
	Electronic total station - construction	ion - 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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Data wygenerowania: 16.04.2025 21:47 Strona 2 z 2