

Subject card

Subject name and code	URBAN AND INDUSTRIAL GEODESY, PG_00044847								
Field of study	Geodesy and Cartography								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028			
Education level	first-cycle studies		Subject group			Optional subject group			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			8.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Geodesy -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej							ecnniki	
Name and surname	Subject supervisor Teachers								
of lecturer (lecturers) Lesson types and methods of instruction	Lesson type Lecture		Tutorial	Projec	t Seminar SUM				
	Number of study	45.0	15.0	30.0			0.0	90	
	hours E-learning hours included: 0.0								
Learning activity	Learning activity	n didactic Participation in			Self-study SUM				
Learning activity and number of study hours	classes include plan			consultation hours		Och-Study			
	Number of study hours	90		10.0		100.0		200	
Subject objectives	The aim is to familiarize with the geodetic monitoring basic structural elements of engineering structures.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U06] can solve of and select measuren for typical engineerin including the curvatu Earth and the impact [K6_W10] has eleme knowledge and under concepts of architect urban planning, consenvironmental enginetransport necessary studies related to platinvestment service [K6_W07] has a well knowledge and under concepts in the field engineering geodesy use of calculations a measurements methout with the use of grinstruments and pho and remote sensing related to geodetic sinvestment, surveyin inventory measurem photogrammetry with sensing								
Subject contents	Geodetic works at construction of foundations, geodetic service of building repeatable storeys, moving structural pivots, placing structural elements of the building. Test measurements of the geometry of halls and equipments. Measurements of plains of building elements Measurements during the assembly and disassembly of outsize elements. Measurements of transfers and deformations of workses, of cooling towers, of chimneys, of pipelines. Appointing the volume of earth mass, drawing up profiles and diameters of the area. Geodetic works in the machine construction.								
Prerequisites and co-requisites	mathematics								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	practical exam - solving	60.0%	60.0%				
	the report of the exercises	100.0%	10.0%				
	theoretical test - test in the range of exercises and lectures	60.0%	30.0%				
Recommended reading	Basic literature	1. Gocał J. 2009. Geodezja inżynieryjno-przemysłowa cz. 1-3. Wydawnictwa AGH 2. Geodezja inżynieryjna. T. 1-3, 1990-1994 PPW-K Warszawa.					
	Supplementary literature	No requirements					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Calculation of the measurement matrix						
	Determination of the shape of the walls of the building						
	3. Adjustment of the levelling network						
	Determination of the displacements of foundation slab						
Work placement	Not applicable						

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