

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	URBAN AND INDUSTRIAL GEODESY, PG_00044847								
Field of study	Geodesy and Cartography								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026			
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								
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
of instruction	Number of study hours	45.0	15.0	30.0	0.0		0.0	90	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	90		10.0				200	
Subject objectives	The aim is to familiari	ze with the geo	detic monitorir	ng basic structu	ural elem	nents of	fengineering	structures.	
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_U06] can solve geodetic tasks and select measurement methods for typical engineering tasks including the curvature of the Earth and the impact of gravity [K6_W10] has elementary knowledge and understands the concepts of architecture and urban planning, construction, environmental engineering and transport necessary to carry out studies related to planning and								
	investment service								
	[K6_W07] has a well-established knowledge and understands concepts in the field of engineering geodesy including the use of calculations and measurements methods carried out with the use of geodetic instruments and photogrammetric and remote sensing technologies related to geodetic support for investment, surveying and inventory measurements and photogrammetry with remote 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	ากลแาะกาสแรง								

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	1. Calculation of the measurement matrix						
	2. Determination of the shape of the walls of the building						
	3. Adjustment of the levelling network						
	4. Determination of the displacements of foundation slab						
Work placement	Not applicable						

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