

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	Projec	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 include plan			Participation in consultation hours		Self-study		SUM		
	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 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	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						
	2. 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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