

## Subject card

Subject name and code	URBAN AND INDUSTRIAL GEODESY, PG_00044847							
Field of study	Geodesy and Cartography							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027		
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 of instruction	Lesson type	Lecture	Tutorial	<del>                                     </del>		Seminar	SUM	
	Number of study hours	45.0	15.0	30.0	0.0		90	
	E-learning hours included: 0.0						0.114	
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	.0			200
Subject objectives	The aim is to familiari	ze with the ged	detic monitorin	ng basic structu	ıral elen	nents of	fengineering s	structures.
Learning outcomes	Course out	Subject outcome			Method of verification			
	knowledge and under concepts in the field engineering geodesy use of calculations at measurements methout with the use of geinstruments and photoand remote sensing related to geodetic structory measurements with sensing [K6_W10] has element knowledge and under concepts of architect urban planning, consenvironmental engine transport necessary studies related to plainvestment service [K6_U06] can solve gand select measurement for typical engineerin including the curvature Earth and the impact	of rincluding the nd ods carried eodetic togrammetric technologies upport for g and ents and n remote entary enstands the ure and estruction, eering and to carry out inning and geodetic tasks nent methods g tasks re of the						
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	theoretical test - test in the range of exercises and lectures	60.0%	30.0%			
	the report of the exercises	100.0%	10.0%			
	practical exam - solving	60.0%	60.0%			
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					
	4. Determination of the displacements of foundation slab					
Work placement	Not applicable					

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