

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Surveying I (team project), PG_00061807								
Field of study	Geodesy and Cartography								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			7.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Geode	artment of Geodesy -> Faculty of Civil and Environmental Engineering							
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Tadeusz Widerski							
	Teachers		dr inż. Tadeusz Widerski						
			dr inż. Karol Daliga						
			dr inż. Karolina Makowska-Jarosik						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct Seminar		SUM	
of instruction	Number of study hours	30.0	0.0	25.0	20.0	0.0		75	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes incluc plan			Self-study		SUM		
	Number of study hours	75		10.0		90.0		175	
Subject objectives	 The aim of the course is to provide students with knowledge of the design and performance of engineering measurements in the field of: measurements of deformations and displacements of buildings, ground displacements, building geometry testing, implementation measurements of buildings and structures, geodetic service of the investment process at every stage, geodetic development of the construction project. 								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K6_W11] understands the concepts and has in-depth knowledge in the field of geodetic building monitoring, extended with basic knowledge in the field of statics and dynamics of engineering structures		The student has the ability to design and conduct measurement activities related to structural monitoring. They also have basic knowledge and the ability to apply expertise in the dynamics and statics of engineering structures.			[SW3] Assessment of knowledge contained in written work and projects			
			The student has the ability to plan and carry out displacement measurements. The student has the skill needed during the investment and implementation process.			[SU4] Assessment of ability to use methods and tools			

Subject contents	The subject content includes the presentation of procedures and measurement methodology related to the ability to design and measure the verticality of a multi-storey building located in a highly urbanized area. Content related to the development of measurement documentation and graphical presentation of measurement results will be presented. Contents of the subject will also include discussion of procedures related to the measurement of displacements and deformations of the building and the building substrate located in its area. The geometry of the industrial building will be measured. The method of processing the measurement results and its graphic presentation will be discussed. The scope of calculations will also include the principles for determining measurement errors and how to align observations. The geodetic standards related to the geodetic service of the investment process and the geodetic preparation of the construction project will be discussed.					
Prerequisites and co-requisites	Ability to perform basic geodetic measurements and perform basic geodetic calculations.					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Assessment of student work during field measurements	30.0%	10.0%			
	Assessment of substantive knowledge	50.0%	50.0%			
	Assessment of completed studies	50.0%	40.0%			
Recommended reading	Basic literature	 T. Lazzarini i inni : Geodezyjne pomiary przemieszczeń budowli i ich otoczenia. Wydawnictwo PPWK. Warszawa 1977 M. Gałda : Geodezja w budownictwie i inżynierii. Oficyna Wydawnicza Politechniki Rzeszowskiej. Rzeszów 1998 J. Czaja : Wybrane zagadnienia z geodezji inżynieryjnej. Wydawnictwa AGH. Kraków 1996 Gocał J. Geodezja inżynieryjno-przemysłowa, część II, AGH, Kraków, 2005r Praca zbiorowa Geodezja inżynieryjno przemysłowa, wykłady i ćwiczenia, AGH, Kraków Praca zbiorowa Geodezja inżynieryjna, 3 tomy , PPWK, Warszawa H. Bryś, S. Przewłocki: Geodezyjne metody pomiarów przemieszczeń budowli, PWN 1998 				
	Supplementary literature	 przestrzennym- 27 marca 2003 Rozporządzenie Ministra Spraw dnia 9 listopada 2011r w spraw wykonywania geodezyjnych po 	O planowaniu i zagospodárowaniu Br w Wewnętrznych i Administracji z vie standardów technicznych			
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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