

Subject card

Subject name and code	APPLIED USE OF SURVEYING DATA ADJUSTMENT AND ANALYSIS, PG_00044810								
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			5.0			
Learning profile	general academic profile		Assessment form			assessment			
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Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering								
Name and surname of lecturer (lecturers)	Subject supervisor Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	30.0	30.0	0.0	0.0	<u>-</u>	0.0	60	
	E-learning hours inclu	ided: 0.0			•		•		
Learning activity and number of study hours	Learning activity		articipation in didactic lasses included in study lan		Participation in consultation hours		udy	SUM	
	Number of study hours	60		9.0		56.0		125	
Subject objectives	Teach students the practical application of alignment calculus methods to evaluate geodetic measurements, including analyzing results and estimating their accuracy.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W03] knows and understands the principles of mathematical statistics described in the examples of the adjustment computations		The student knows and understands the elements of matrix calculus, statistics and probability necessary for solving tasks from the alignment calculus						
	[K6_U03] can use a adjustment calculations to analyze the results of measurements and determine their accuracy		The student is able to put into practice the methods of alignment calculus						
Subject contents	1. Parametric method 2. Conditional method 3. Mixed methods: - Parametric method with conditions binding parameters - Conditional method with parameters 4. Sequential alignment								
Prerequisites and co-requisites	Knowledge of mathematics in the field of matrix calculus, statistics and probability, presented in the framework of the alignment calculus subject.								
Assessment methods	Subject passing criteria		Passing threshold		Per	Percentage of the final grade			
and criteria	Solution of given tasks		60.0%				100.0%		
Recommended reading	Basic literature L.W. Baran, Theoretical foundations for the analysis of geodetic surve results, ed. PWN, 1999, Warsaw Z. Wiśniewski, Alignement Calculus in Geodesy (with examples). Ed. UWM, 2009, Olsztyn					-			
	Supplementary literature Z. Wiśniewski, Matrix algebra and mathematical statistics in aligoral calculus (theory and tasks), ed. UWM, 2000, Olsztyn				in alignement				

	eResources addresses	Adresy na platformie eNauczanie:		
example questions/	The distance to 4 geodetic points with given coordinates, and angles between them were measured. The following results were obtained (d1, d2, d3, d4, A12, A23, A34). The mean error of distance measurement was md and angle measurement mA. Calculate the x, y coordinates of the point and their estimated accuracy.			
Work placement	Not applicable			

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