

Subject card

Subject name and code	SPECIAL GEODETIC MEASUREMENTS B, PG_00044857							
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 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	3		Language of instruction			Polish		
Semester of study	5		ECTS credits			6.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Geode	of Civil and Environmental Engineering						
Name and surname	Subject supervisor							
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	30.0	15.0	15.0	0.0		0.0	60
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	ing activity Participation ir classes include plan				Self-study SUM		SUM
	Number of study hours	60		8.0		82.0		150
Subject objectives	Teaching students about standard geodetic work, including road and rail objects.							
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		get the ability to use the geometric levelling in the vertical displacements determination					
	[K6_K02] is ready to solve problems related to the profession of geodesy and cartography engineer and to assess risks and effects of the performed activity		get the ability to plan and conduct geodetic engineering tasks					
	knowledge and understands			to use the stat e geodetic work neasurements				

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Subject contents	ect contents Accuracy analysis using local estimators of variance coefficients.							
	Free adjustment of vertical and horizontal networks.							
	Technologies for determining the vertical displacements taking into account rail and road structures. Standards for taking measurements in railway geodesy. Trigonometric leveling in determining the height of the measurement's network points.							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade					
	lab classes – practical classes – getting the credit of obligatory tasks	100.0%	0.0%					
	end-term test - subjects presented during the lectures, practical and lab classes (60 minutes)	50.0%	100.0%					
	practical classes – practical classes – getting the credit of obligatory tasks	100.0%	0.0%					
Recommended reading	Basic literature	Gocał J. Geodezja inżynieryjno – przemysłowa. Część II. Uczelniane Wydawnictwa Naukowo – Dydaktyczne AGH Kraków 2009. Gocał J. Geodezja inżynieryjno – przemysłowa. Część III. Uczelniane Wydawnictwa Naukowo – Dydaktyczne AGH Kraków 2010.						
		Osada E. Geodezja. Oficyna Wydawnicza Politechniki Wrocławskiej. Wrocław 2001.						
		/iśniewski Z. Rachunek wyrównawczy w geodezji (z przykładami). /ydawnictwo Uniwersytetu Warmińsko - Mazurskiego w Olsztynie. lsztyn 2005.						
	Supplementary literature	Gocał J. Geodezja inżynieryjno – przemysłowa. Część II. Uczelniane Wydawnictwa Naukowo – Dydaktyczne AGH Kraków 2009.						
	eResources addresses	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Present the principles of free adjustment of realisation networks.							
	Present the rules for determining the local coefficients of variance.							
Describe the division of the railway geodetic network.								
	Describe the methods of determining vertical displacements of road and rail structures.							
	Present the technology of establishing a basic horizontal railway network.							
Work placement	Not applicable							
Work placement	Trot applicable							

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