

Subject card

Subject name and code	Engineering geodesy II, PG_00044837							
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			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	3		Language of instruction			Polish		
Semester of study	5		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Geode	sy -> Faculty c	y of Civil and Environmental Engineerin		gineering	g		
Name and surname	Subject supervisor							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
of instruction	Number of study hours	15.0	15.0	15.0	0.0		0.0	45
	E-learning hours inclu	ided: 0.0						
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUN		SUM	
	Number of study hours	45		6.0		49.0		100
Subject objectives	Student has the know	ledge hot to m	ake the standa	rd geodetic me	easurem	ents.		
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_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	Attestation (certification), comparison (calibration) and periodical examination of the electromagnetic distance measuring instruments. Topographic survey conducting with the use of the polar survey and electronic tacheometers. Standards of taking the geodetic measurements. Eccentric measurements. Coordinates transfer. The rules of establishment of the detailed geodetic network. Coordinates transformation. The height measurements with the use of trigonometric leveling method.							
Prerequisites and co-requisites	Knowledge of the following subjects: :engineering drawing, computer science, mathematics I, geodesy I.							

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	The final examination. Only students that obtained the course (laboratories and workshops) credits can take the examination. There are no part course credit.	50.0%	60.0%		
	Workshops. To obtain the course credit of all the calculative tasks. To pass the end-term test (colloquium).	100.0%	20.0%		
	Laboratories. Map compilation on the basis of the topographic survey conducted.	100.0%	20.0%		
Recommended reading	Basic literature	1. Jagielski A., Geodezja II. Kraków 2003. 2. Lazzarini T., Hermanowski A., Gaździcki J., Dobrzycka M., Laudyn I., Geodezja. Geodezyjna osnowa szczegółowa. PPWK Warszawa, Wrocław 1990. 3. Osada E., Geodezja. Oficyna Wydawnicza politechniki Wrocławskiej. Wrocław 2002. 4. Skórczyński A., Niwelacja trygonometryczna w pomiarach szczegółowych. Wydawnictwa Politechniki Warszawskiej. Warszawa 1993. 5. Skórczyński A., Lokalna triangulacja i trilateracja. Wydawnictwa Politechniki Warszawskiej. Warszawa 1993.			
	Supplementary literature	Czarnecki K., Geodezja współczesna w zarysie. Wydawnictwo Wiedza i Życie 1994. 2. Kosiński W., Geodezja. Wydawnictwo SGGW, Warszawa 2005. 3. Kurałowicz Z., Geodezja. Podstawowe obliczenia oraz wybrane ćwiczenia. Pol. Gd., 2009.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	 Describe the trigonometric levelling on the short distances. The basic rule of the electronic distance measurements. Describe the technology of the coordinates transfer. Describe the basic work phases during the topographic survey conducting. 				
Work placement	Not applicable				

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