

Subject card

Subject name and code	Engineering geodesy II, PG_00044837								
Field of study	Geodesy and Cartography								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
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	esy -> Faculty o	1			9			
Name and surname of lecturer (lecturers)	Subject supervisor		mgr inż. Mariusz Chmielecki						
	Teachers		mgr inż. Mariusz Chmielecki						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	tory Project		Seminar	SUM	
	Number of study hours	15.0	15.0	15.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUI		SUM		
	Number of study hours	45	6.0		49.0			100	
Subject objectives	Student has the knowledge hot to make the standard geodetic measurements.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
J	[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	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 /iedza i Życie 1994. 2. Kosiński W., Geodezja. Wydawnictwo SGGW, /arszawa 2005. 3. Kurałowicz Z., Geodezja. Podstawowe obliczenia raz 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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