

Subject card

Subject name and code	Geodesy , PG_00047989								
Field of study	Environmental Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2022/2023			
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	Part-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form		assessment				
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Karol Daliga						
	Teachers		dr inż. Karol Daliga						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	oject Seminar		SUM	
	Number of study hours	15.0	5.0	15.0	0.0		0.0	35	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes including plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	35		6.0		85.0		126	
Subject objectives	Knowledge and acquisition of knowledge and skills in the field of basic geodetic issues in application for the needs of environmental engineering.								

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_K01] can think and act in a creative and enterprising way; can set priorities for the implementation of an individual or group task; understands the need for continuous training and professional responsibility for their activities and team	Carries out geodetic tasks independently or in a team, using the current knowledge and experience.	[SK1] Assessment of group work skills [SK2] Assessment of progress of work				
	[K6_W17] has basic knowledge of geodesy in the range of applied measurement equipment and techniques, geodetic information systems and documentation necessary in the preparation process, investment implementation	Sudent knows the basic geodetic tasks, units and measures used in geodesy. The student has a basic knowledge of geodetic networks, geodetic instruments and cartographic materials necessary during the implementation of the investment.	[SW1] Assessment of factual knowledge				
	[K6_U05] can apply in engineering practice the basic geodetic instruments and instruments, make measurement sketches and read information from the map and surveying documents	Gaining the skills to perform basic geodetic and control calculations. Acquiring the ability to use basic geodetic instruments, acquiring the ability to obtain information from documentation related to the execution of geodetic works and maps for design purposes.	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools				
	[K6_U02] can work individually and in a team; knows how to estimate the time needed to complete the task ordered; is able to develop and implement a work schedule that ensures deadlines	The student is able to plan and implement in a limited range measurements / prepare appropriate documentation according to the prepared schedule.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools				
	[K6_U03] can prepare documentation regarding the implementation of an engineering task/project and prepare a text or presentation including a discussion of the results of the implementation	Student is able to plot a field sketch, keep a measurement diary. During the presentation of measurement results or calculations, he uses the rules used in geodesy.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools				
Subject contents	Geodesy and cartography - its position as a discipline in theory and practice of engineering. Surveying service in Poland - Centres of Geodesy and Cartography Documentation and Companies of Reconciliation Documentation Design. The role and tasks of surveying in the process of realization investments. Survey instructions and technical guidance. Traditional and modern surveying instruments and new technologies (levels, theodolites, electronic station, GPS, scanners). Classification methods for leveling. The measurement of directions and angles calculation. Vertical measurements and situational. Direct and indirect measurements of length.						
Prerequisites and co-requisites	No requirements						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Test from lecture	60.0%	55.0%				
	Raports from laboratory and instruments operating	50.0%	10.0%				
	Test from tutorial	60.0%	35.0%				
Recommended reading	Basic literature	Kurałowicz Z.: Geodezja - od taśmy mierniczej i krokiewki do GPS. P. G. Gdańsk 2020.					
		2. Kurałowicz Z.: Geodezja - podsta ćwiczenia. P. G. Gdańsk 2014.	wicz Z.: Geodezja - podstawowe obliczenia oraz wybrane a. P. G. Gdańsk 2014.				
	3. Przewłocki S. Geodezja dla Inżyi		ilerii Środowiska. PWN. 1997				
	Supplementary literature	3. Żurowski A.: Ćwiczenia z geodezji. Praca zbiorowa. P.G. Gdańsk 1999					
	eResources addresses	Adresy na platformie eNauczanie: Geodezja dla IŚ, 3 sem 2022/2023 - Moodle ID: 23368 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23368					
Example issues/ example questions/ tasks being completed	Geodetic calculations. Geodetic documents. Geodetic equipment and application. Measurement methods.						
Work placement	Field exercises						

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