

GDAŃSK UNIVERSITY

Subject card

Subject name and code	Geodesy, PG_00042	2796							
Field of study	Environmental Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject		2021/2022				
Education level	first-cycle studies	rst-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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			2.0			
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						
	dr inż. Tadeusz Widerski								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
	Number of study hours	15.0	15.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie: Geodezja IŚ 1 sem - 2021/2022 - Moodle ID: 14601 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14601								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		5.0		20.0		55	
Subject objectives	Knowledge and acquisition of knowledge and skills in the field of basic geodetic issues in application for the needs of environmental engineering.								

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. Surveying instruments and 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 and co-requisites Subject passing criteria Passing threshold Percentage of the final grade Test wrom exercises 60.0% 35.0% Test from lecture 65.0% 55.0% Raports from team works 90.0% 10.0% Recommended reading Basic literature 1. Kurałowicz Z.: Geodezja - od taśmy mierniczej i krokiewki do GPS. P. G. Gdańsk 2011. Supplementary literature 3. Żurowski A.: Ćwiczenia z geodezji. Praca zbiorowa. P.G. Gdańsk 1999 Resources addresses eResources addresses Geodezja IŚ 1 sem - 2021/2022 - Moodle ID: 14601 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14601 Example questions/ tasks being completed Geodetic calculations. Geodetic documents. Geodetic equipment and its application. Measurement methods.	Learning outcomes	Course outcome	Subject outcome	Method of verification				
statuments and instruments, acquiring in early to be and instruments, acquiring in early to be able to be abl		and in a team; knows how to estimate the time needed to complete the task ordered; is able to develop and implement a work	able to plan and implement in a limited range measurements / prepare appropriate documentation according to the					
documentation regarding the implementation of an engineering task/project and prepare a text or presentation including a discussion of the results of the implementation sketch, keep a measurement assurement results or calculations, he uses the rules used in geodesy. analyse information (SIG) Assessment of ability to present the results of task. K66, W171 has basic knowledge of geodesy. The student has a basic moviedge of geodetic control networks, geodetic instruments, companion materials necessary during the implementation necessary in the preparation process, investment implementation Design. [SW1] Assessment of factual knowledge 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 indirect measurement of directions and angles calculation. Vertical measurements and situational. Direct and indirect measurements of length. Prerequisites and correquisites and correquisites Subject passing criteria Passing threshold Percentage of the final grade tast from lecture Recommended reading Basic literature 1. Kuralowicz Z: Geodezja - od tasimy miemiczej i krokiewki do GPS. P. G. Gdarisk 2021. Recommended reading Basic literature 3. Zurowski A: Cwiczenia z geodezji. Praca zbiorowa. P.G. Gdarisk 1999 Recourses of realized as differences Geodetic calculation. Geodetic documents. Geodezja - od tasimy miemiczej i krokiewki do GPS. P. G. Gdarisk 2021. Precentage of the final grade tand criteria Basic literature		practice the basic geodetic instruments and instruments, make measurement sketches and read information from the map and	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	analyse information [SU4] Assessment of ability to				
geodesy in the range of applied measurement equipment and techniques, geodetic information systems and documentation necessary in the preparation process, investment implementation knowledge of geodetic control networks, geodetic information average of the implementation of the investment. knowledge 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, theodolits, 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 and co-requisites Subject passing criteria Passing threshold Percentage of the final grade Test wrom exercises Recommended reading Basic literature 1. Kuratowicz Z.: Geodezja - od taśmy miemiczej i krokiewki do GPS. P. G. Gdańsk 2021. Recommended reading Basic literature 3. Żurowski A.: Ćwiczenia z geodezji. Praca zbiorowa. P.G. Gdańsk 1999 eResources addresses Geodetic calculations. Geodetic documents. Geodetic equipment and its application. Measurement methods. example questions/ tasks being completed Geodetic calculations. Geodetic documents. Geodetic equipment and its application. Measurement methods.		documentation regarding the implementation of an engineering task/project and prepare a text or presentation including a discussion of the results of the	sketch, keep a measurement diary. During the presentation of measurement results or calculations, he uses the rules	analyse information [SU5] Assessment of ability to				
service in Poland - Centrés 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 surveying 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 correquisites and criteria Subject passing criteria Passing threshold Percentage of the final grade Test wrom exercises Subject passing criteria Passing threshold Percentage of the final grade Test mom exercises Recommended reading Subject passing criteria Passing threshold Percentage of the final grade Test from lecture Basic literature 1. Kuratowicz Z: Geodezja - od taśmy mierniczej i krokiewki do GPS. P. G. Gdańsk 2021. P. G. Gdańsk 2021. Supplementary literature 3. Żurowski A.: Ćwiczenia z geodezji. Praca zbiorowa. P.G. Gdańsk 1999 Resources addresses Geodetic calculations. Geodetic documents. Geodetic equipment and its application. Measurement methods. Resources/view.php?id=14601 https://enauczanie.pg.edu.pl/moodle/course		geodesy in the range of applied measurement equipment and techniques, geodetic information systems and documentation necessary in the preparation process, investment	knowledge of geodetic control networks, geodetic instruments, cartographic materials necessary during the implementation of the					
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example questions/ tasks being completed		eResources addresses	Geodezja IŚ 1 sem - 2021/2022 - Moodle ID: 14601					
Work placement Field exercises	Example issues/ example questions/ tasks being completed	Geodetic calculations. Geodetic documents. Geodetic equipment and its application. Measurement methods.						
	Work placement	Field exercises						