



## Subject card

Subject name and code	Geodesy II I( projekt managment), PG_00050191						
Field of study	Geodesy and Cartography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
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	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		5.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Department Of Geodesy -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej]						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	15.0	15.0	0.0	60
	E-learning hours included: 0.0						
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	60		9.0		56.0	125
Subject objectives	Learn about more advanced issues in geodesy and cartography.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W05] knows and understands the principles in the field of geomatics, mathematical and thematical cartography, including reference systems and coordinate frames associated with cartographic elaborations, and has knowledge about establishing and modernizing geodetic networks, taking into account the current legal status		Student uses information on geodetic control networks. Student performs and processes geodetic measurements.				
	[K6_W06] has a well-grounded knowledge and understands geodesy concepts including the main methods of obtaining data about space together with the surveying and computational methods, which from the one hand are compatible with the current legal status and from the other hand refer to measurements on the plane and cover the use of modern geodetic instruments, with taking into account the curvature of the Earth and the impact of gravity on the maner of measurements and results		Student uses information on issues discussed at the subject. Student performs and processes geodetic measurements.				
	[K6_U04] can use contemporary geodetic instruments, including automation of measurements, data transmission and processing in a computer-instrument system with the use of computer networks		Student performs and processes geodetic measurements.				

Subject contents	Precise levelling; ISO standards; The use of drones in topographic surveys; Land development plan; Building surveying; As-built surveys		
Prerequisites and co-requisites	passed exams with surveying		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	100.0%	20.0%
	Examination	50.0%	60.0%
	Lab	100.0%	20.0%
Recommended reading	Basic literature	1. Rozporządzenie Ministra Gospodarki Przestrzennej i Budownictwa z dnia 21 lutego 1995 r. w sprawie rodzaju i zakresu opracowań geodezyjno-kartograficznych oraz czynności geodezyjnych obowiązujących w budownictwie.  2. Rozporządzenie Ministra Spraw Wewnętrznych i Administracji z dnia 9 listopada 2011 r. w sprawie standardów technicznych wykonywania geodezyjnych pomiarów sytuacyjnych i wysokościowych oraz opracowywania i przekazywania wyników tych pomiarów do państwowego zasobu geodezyjnego i kartograficznego  3. ISO standard  4. Jagielski A., Podstawy geodezji inżynierskiej. Standardy, pomiary realizacyjne, trasy, objętości. Geodpis, 2012  5. Praca zbiorowa, Niwelacja precyzyjna. PPWK im. E. Romera S.A., Warszawa, 1993.	
	Supplementary literature	Scientific literature recommended by a teacher.	
	eResources addresses	Adresy na platformie eNauczanie:	
	Example issues/ example questions/ tasks being completed	1. Precise levelling  2. ISO standards  3. The use of drones in topographic surveys  4. Building surveying, as-built surveys	
Work placement	Not applicable		

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