GDAŃSK UNIVERSITY OF TECHNOLOGY

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 2024	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	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		
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_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.	
[K6_W06] has a well-grounded knowledge and understands geodesy concepts including the main methods of obtaining data about space togather with the surveying and computional 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_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.	

Subject contents

Precise levelling; ISO standards; The use of drones in topographic surveys; Land development plan; Building surveying; As-built surveys

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">passed exams with surveying</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Lab</td><td>100.0%</td><td>20.0%</td></tr><tr><td>Examination</td><td>50.0%</td><td>60.0%</td></tr><tr><td>Project</td><td>100.0%</td><td>20.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>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 inżynieryjnej. Standardy, pomiary realizacyjne, trasy, objętości. Geodpis, 2012

5. Praca zbiorowa, Niwelacja precyzyjna. PPWK im. E. Romera S.A., Warszawa, 1993.</td></tr>
<tr><td>Supplementary literature</td><td>Scientific literature recommended by a teacher.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">1. Precise levelling

2. ISO standards

3. The use of drones in topographic surveys

4. Building surveying, as-built surveys</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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