GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00062627		
Field of study	Civil Engineering		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	
Mode of study	Part-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	4	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	mgr inż. Mariusz Chmielecki	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	10.0	15.0	10.0	0.0	0.0	35

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	35	0.0	0.0	35

Subject objectives

1.A Level, construction and leveling,

2. Readings from staffs, checking the horizontal axis of the line of sight,

3. Measurement of ordinates, staking out ordinates,

4. Leveling sequences, execution and calculation,

5. Electronic total stations, construction, preparation for work,

6. The use of total stations in the practice of a civil engineer.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U04] Reads and prepares construction documentation (including drawings, graphic documentation in the CAD environment), efficiently uses maps as well as architectural, construction and geodetic drawings.	Student is able to create and use construction documentation - paper and electronic.	[SU2] Assessment of ability to analyse information
[K6_W04] Knows the rules of descriptive geometry and technical drawing for preparing and reading architectural, construction and geodetic drawings; also with the use of CAD	Know the principles of geodetic drawings, also using CAD.	[SW3] Assessment of knowledge contained in written work and projects

<table>
<tr><td>Subject contents</td><td>Course content – lecture
1. Level, construction and leveling,

2. Readings from staffs, checking the horizontal axis of the line of sight,

3. Measurement of ordinates, staking out ordinates,

4. Leveling sequences, execution and calculation,

5. Electronic total stations, construction, preparation for work,

6. The use of total stations in the practice of a civil engineer.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>exam, evaluation of reports.</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Jan Gocał, "Geodezja inżynieryjno-przemysłowa".Kraków 2009.

Lazzarini T. i inni: Geodezyjne pomiary przemieszczeń budowli i ich otoczenia,Warszawa 1977

Praca zbiorowa, "Poradnik Kierownika Budowy", Arkady W-wa, 1989.</td></tr><tr><td>Supplementary literature</td><td>Bryś H., Przewłocki S. "Geodezyjne metody pomiarów przemieszczeń budowli" - PWN Warszawa</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Construction of the levelel - laboratory

Leveling the level - laboratory

Calculations in leveling - lectures, laboratory

Electronic total station - construction, principle of operation. - laboratory,

Structure of the gsi file - lectures, laboratory,

Application programs of total stations - lectures, laboratory.</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.