GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Engineering Drawing, PG_00058741		
Field of study	Environmental Engineering		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	first-cycle studies	Subject group	Obligatory subject group 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	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Paweł Więcławski	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	15.0	0.0	15

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	15	5.0	8.0	28

Subject objectives

To teach students the principles of preparing and reading a technical drawing using a variety of techniques and tools.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U07] can read architectural, construction and geodesy drawings, and can use the known computer programs to prepare a drawing part of technical documentation for the sanitary industry	Student can read basic technical information from a drawing. Can produce basic drawings: view, section, detail for branch technical documentation.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment
[K6_W15] knows the rules of descriptive geometry and technical drawing regarding the recording and reading of architectural drawings, construction and surveying drawings, as well as their preparation with the use of CAD	The student knows the principles of preparing and reading technical drawings. He is able to apply appropriate types and thicknesses of lines, dimension constructions, knows symbols and designations of constructional elements and materials grading. The student is able to prepare a sheet for creating a drawing in AutoCAD using layers. Uses basic tools for editing, dimensioning and printing drawings in AutoCAD.	[SW1] Assessment of factual knowledge

Subject contents

Course content – project

1. The basic concepts and principles for preparing technical drawings.
2. Technical writing.
3. Types and thickness of lines used in technical drawings.
4. Rectangular and axonometric projections.
5. Views, sections, layouts, details.
6. Principles of dimensioning on technical drawings.
7. Markings and stencils used on technical drawings.
8. Technical drawings in Autodesk AutoCad 2022.
9. Technical drawing of sanitary installations.

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Theoretical part test	60.0%	30.0%
	AutoCAD technical drawing	60.0%	30.0%
	Manual technical drawing	60.0%	40.0%
Recommended reading	Basic literature	1. Burcan J., *Podstawy rysunku technicznego*, Wydawnictwo Naukowe PWN, Warszawa, 2016. 2. Miśniakiewicz E., Skowroński W., *Rysunek techniczny budowlany*, Arkady, Warszawa, 2008. 3. Januszewski B., Rysunek techniczny w projektowaniu instalacji sanitarnych. Oficyna Wydawnicza Politechniki Rzeszowskiej, 2001	
	Supplementary literature	1. Popek M., Wapińska W., *Rysunek zawodowy. Instalacje sanitarne*. WSiP, 2009 2. Romanowicz P., Rysunek techniczny budowlany z wykorzystaniem narzędzi budowlanych. Wydawnictwo Naukowe PWN, Warszawa, 2021.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Produce a complete technical drawing with dimensioning and descriptions of the indicated structural element. 2. Produce a drawing of the sanitary installation in a single-family building in AutoCAD.		
Practical activites within the subject	Not applicable		

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