GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Computer Aided Design (CAD), PG_00042637		
Field of study	Environmental Engineering		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2022/2023
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study
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 Geotechnics, Geology and Marine Civil Engineering -> Faculty of Civil and Environmental Engineering		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Krzysztof Szarf	
	Teachers	dr inż. Krzysztof Szarf dr inż. Witold Tisler	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	10.0	0.0	20.0	0.0	0.0	30

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	30	5.0	70.0	105

Subject objectives

To learn skills required to draft technical drawings using CAD software (AutoCAD)

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W16] 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	Knows the rules of drafting technical drawings Knows the rules of descriptive geometry Has the knowledge to draft technical drawings according to the aforementioned rules Knows how to draw in AutoCAD	
[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 a civil engineering or a sanitary engineering technical drawing Student is able to use AutoCAD software to create a technical drawing	
[K6_U11] can use selected computer programs to support design, including CAD graphics programs	Can prepare technical drawings using AutoCAD	

Subject contents

Learning how to use Autodesk AutoCAD
Drawing of basic elements
Modification of the elements already drawn
Precision
Layers
Properties
Printing
Introduction to 3D drawing

Prerequisites and co-requisites

Classes taught in the previous semesters: descriptive geometry, technical drawing
Knowledge of technical drawing rules
How to use Windows OS
Polish profficiency

<table>
<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>test</td><td>30.0%</td><td>80.0%</td></tr>
<tr><td>Udział w zajęciach</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 colspan="2">1. AutoCAD help files
2. http://knowledge.autodesk.com/support/autocad/learn-explore/
3. Andrzej Pikoń: AutoCAD. Pierwsze kroki. Helion.
4. Andrzej Jaskólski: AutoCad. Kurs projektowania parametrycznego i nieparametrycznego w 2D i 3D. PWN.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">any AutoCAD manual</td></tr>
<tr><td>eResources addresses</td><td colspan="2">Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Final test consists of redrawing a given figure and performing a number of specific tasks such as adding dimensions or printing the figure</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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