

§ GDAŃSK UNIVERSITY § OF TECHNOLOGY

Subject card

Subject name and code	Computer Aided Design (CAD), PG_00042892								
Field of study	Environmental Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
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	4		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor	dr inż. Witold Tisler							
of lecturer (lecturers)	Teachers		dr inż. Witold Tisler						
			dr inż. Kamila Mikina						
			dr inż. Katarzyna Staszewska						
		dr inż. Marzena Wójcik							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	30.0	0.0	0.0		30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	Participation i classes incluc plan			Self-study		SUM		
	Number of study hours	30		5.0		20.0		55	
Subject objectives	The Computer Aided Design course is designed to teach students the basics of working in AutoCAD. During the course, the most important functions of the program will be discussed, such as: drawing, modification of objects, hatching or preparation of a drawing for printing.								
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.			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U11] can use selected computer programs to support design, including CAD graphics programs		Can prepare technical drawings using AutoCAD.			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
	[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.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task			

Subject contents	Learning how to use Autodesk AutoCADDrawing of basic elementsModification of the elements already drawnPrecisionLayersPropertiesPrintingIntroduction 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.					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Attendance	100.0%	20.0%			
	Test (prepare a drawing)	50.0%	80.0%			
Recommended reading	Basic literature	1. AutoCAD help files2. 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.				
	Supplementary literature	any AutoCAD manual				
	eResources addresses					
Example issues/ example questions/ tasks being completed	The student has to prepare and defend a dozen drawing elements prepared on the basis of homework. All of them should be done independently, and their correctness may be consulted during the semester with the teachaer during laboratory classes or consultations. Example task: prepare blocks according to guidelines, create text styles and / or dimensions according to guidelines. The final grade is influenced by the presence and work in the laboratory classes.					
Work placement	Not applicable					