

Subject card

Subject name and code	Computer Aided Design (CAD), PG_00042637								
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			
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	Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor dr inż. Krzysztof Szarf								
of lecturer (lecturers)	Teachers		dr inż. Krzysztof Szarf						
S. Isstardi (Isstardia)	dr inż. Witold Tisler								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	10.0	0.0	20.0	0.0		0.0	30	
	E-learning hours inclu	ided: 0.0							
	Adresy na platformie eNauczanie:								
	Grafika Inżynierska (CAD) IŚ niestacjonarne - lato 2021/2022 - Moodle ID: 18327 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18327								
Learning activity and number of study hours	Learning activity	Participation in classes include plan				Self-study S		SUM	
	Number of study hours			5.0		70.0		105	
Subject objectives	To learn skills required to draft technical drawings using CAD software (AutoCAD)								
Learning outcomes	Course out	come	Subject outcome Method of verification				ification		
	[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			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[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 [SU4] Assessment of ability to use methods and tools			
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								

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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			
	test	30.0%	80.0%			
	Udział w zajęciach	100.0%	20.0%			
Recommended reading	Basic literature	AutoCAD help files http://knowledge.autodesk.com/support/autocad/learn-explore/ Andrzej Pikoń: AutoCAD. Pierwsze kroki. Helion. Andrzej Jaskólski: AutoCad. Kurs projektowania parametrycznego i nieparametrycznego w 2D i 3D. PWN.				
	Supplementary literature	any AutoCAD manual				
	eResources addresses	Grafika Inżynierska (CAD) IŚ niestacjonarne - lato 2021/2022 - Moodle ID: 18327 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18327				
Example issues/ example questions/ tasks being completed	Final test consists of redrawing a given figure and performing a number of specific tasks such as adding dimensions or printing the figure					
Work placement	Not applicable					

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