

Subject card

Subject name and code	Computer Aided Design (CAD), PG_00059028								
Field of study	Grafika inżynierska (CAD)								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026			
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	3		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor	ıbject supervisor dr inż. Krzysztof Szarf							
of lecturer (lecturers)	Teachers		dr inż. Krzysztof Szarf						
			dr inż. Witold	inż. Witold Tisler					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 classes included plan				Self-study		SUM		
	Number of study hours	30	6.0			66.0		102	
Subject objectives	To learn skills required to draft technical drawings using CAD software (AutoCAD by Autodesk)								
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					[SU4] Ocena umiejętności korzystania z metod i narzędzi [SU1] Ocena realizacji zadania			
	[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		geometry Has the knowledge to draft technical drawings according to the aforementioned rules Knows how to draw in AutoCAD			[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym			
	[K6_U11] can use selected computer programs to support design, including CAD graphics programs		Can prepare technical drawings using AutoCAD			[SU1] Ocena realizacji zadania [SU4] Ocena umiejętności korzystania z metod i narzędzi			

Subject contents	Learning how to use a current version of Autodesk AutoCADDrawing of basic elements (line, circle, polyline, polygon, rectangle, arch)Modification of the elements already drawn (commands such as copy, move, rotate, stretch, mirror copy, cut, extend, array, scale, offset)Precise drafting (using Cartesian and polar coordinates, using global and local coordinates, using object snap points)Layer usage (line type, line thickness)Properties of various objects in AutoCAD. Hatching. Adding dimensions to the drawing, including annotative dimensions. Adding texts to the drawing, including annotative texts. Drawing blocks and blocks with attributes. Regions. Mass properties.Printing (setting up a new plotter, plotting using the model space and the layout space. Setting a proper print scale. Using invisible layers. Using viewports)Introduction to 3D drawing						
Prerequisites and co-requisites	Classes taught in the previous semesters: descriptive geometry, technical drawingKnowledge of technical drawing rulesHow to use Windows OSPolish profficiency						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Udział w zajęciach	100.0%	20.0%				
	test	30.0%	80.0%				
Recommended reading	Basic literature	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. any AutoCAD manual					
	Supplementary literature						
	eResources addresses	Basic https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33258 - eNauczanie course (in Polish. Winter semester 2023/2024)					
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						
Practical activites within the subject	Not applicable						

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