

Subject card

Subject name and code	, PG_00060099								
Field of study	Civil Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group						
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Engineering Structures -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor dr inż. Arkadiusz Sitarski								
of lecturer (lecturers)	Teachers		dr inż. Arkadiusz Sitarski						
		dr inż. Przemysław Kalitowski							
		mgr inż. Mikołaj Binczyk							
			dr inż. Marek						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study	0.0	0.0	5.0	0.0		0.0	5	
	hours	Ideq: 0.0							
	E-learning hours included: 0.0 Additional information:								
	Students carry out cla	asses and get a							
	to be implemented in	trie subsequer	it semesters. i	ne instructors	CHECK II	ie prepa	areu tests ari	a nomeworks	
Hybrid mode classes - five hours in a laboratory room, the rest of the schedule conducted								ependently.	
	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30001								
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Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-st	uay	SUM	
	Number of study	5		0.0		0.0		5	
Subject objectives	Making the students familiar with the AutoCAD software.								
Subject objectives									
	Learning the students to make technical drawings and documentation.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K6_W04] Knows the rules of		The ability to read and perform		[SW1] Assessment of factual				
	descriptive geometry and technical drawing for preparing		basic drawings in the CAD environment		knowledge				
	and reading architectural, construction and geodetic								
	drawings; also with the use of CAD								
	[K6_U04] Reads and prepares construction documentation (including drawings, graphic documentation in the CAD environment), efficiently uses maps as well as architectural, construction and geodetic drawings.		basic drawings in the CAD environment			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
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Data wydruku: 30.06.2024 21:19 Strona 1 z 2

Cubic et contents	Laboratory						
Subject contents		he recorded course and the topics of					
	AutoCAD interface. Rules for drawing in the AutoCAD system. Coordinate systems. Navigating the workspace. Layers. Types of lines and line styles. Features of drawings: simple drawing, precise drawing using permanent and temporary location points. Hatching. Drawing object properties: definition and modification, agreement in properties of the objects, physical properties of the objects (length, area, moments of inertia, etc.). Editing: editing tools, advanced editing of the objects. Blocks: creation and modification of blocks, block libraries, blocks with attributes. Text: definition and modification, text styles. Dimensioning: definition and modification, dimensioning styles, types of dimensions. Printing: plotter configuration, plot scale and paper size, printing from a model and from a paper layout. Skill check Performance of tasks - quizzes Preparation of homeworks						
Prerequisites and co-requisites	Acquaintance in geometry and the principles of making technical drawings.						
	Acquaintance in the basics of CAD operating systems.						
Assessment methods and criteria	Subject passing criteria CAD Homework , quizzes	Passing threshold 100.0%	Percentage of the final grade 100.0%				
Recommended reading	Basic literature	KŁOSOWSKI P.: Ćwiczenia w kreśleniu rysunków w systemie AutoCAD 2010PL, AutoCAD 2011PL, Wydawnictwo Politechniki Gdańskiej, Gdańsk 2011. Jaskulski A.: AutoCAD 2014/LT2014/360(WS+), Kurs projektowania parametrycznego i nieparametrycznego 2D i 3D. PWN, 2014 Pikoń A.: AutoCAD 2022PL. Pierwsze kroki. Helion, 2021. Pikoń A.: AutoCAD 2023PL. Helion, 2022. Kacprzyk Z., Pawłowska B.: Komputerowe wspomaganie projektowania. Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2012. Kasznia D., Magiera J., Wierzowiecki P.: BIM w praktyce. PWN, Warszawa, 2018. 7. Tomana A.: BIM Innowacyjna technologia w budownictwie. Podstawy. Standardy. Narzędzia. Kraków 2016.					
	Supplementary literature	 PN-EN ISO 13567-1:2002 Dokumentacja techniczna wyrobu Organizacja i nadawanie nazw warstwom w systemie CAD. (1: Zasady ogólne. PN-EN ISO 128-21: Rysunek techniczny. Zasady ogólne przedstawiania. Część 21: Linie w systemie CAD. 					
	eResources addresses	Adresy na platformie eNauczanie: AutoCAD I - semestr II 2023/2024 - Moodle ID: 37666 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37666					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

Data wydruku: 30.06.2024 21:19 Strona 2 z 2