



## Subject card

Subject name and code	, PG_00060091						
Field of study	Civil Engineering						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group					
Mode of study	Full-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 of lecturer (lecturers)	Subject supervisor	dr inż. Arkadiusz Sitarski					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	E-learning hours included: 0.0						
	AutoCAD semestr II 2022/2023 - Moodle ID: 30001 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30001">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30001</a>						
	Additional information:  Students carry out classes and get acquainted with the contents based on an online course, getting the skills to be implemented in the subsequent semesters. The instructors check the prepared tests and homeworks  <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30001">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30001</a>						
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	0	0.0	0.0	0		
Subject objectives	Making the students familiar with the AutoCAD software.  Learning the students to make technical drawings and documentation.						
Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[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.	The student is acquainted with the CAD software employed in the course	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools				
	[K6_W04] Knows the rules of descriptive geometry and technical drawing for preparing and reading architectural, construction and geodetic drawings; also with the use of CAD	The student is acquainted with the CAD software employed in the course	[SW1] Assessment of factual knowledge				

Subject contents	<p><b>Laboratory</b></p> <p>Laboratory for self-study based on the recorded course and the topics of the daily content. AutoCAD interface. Rules for drawing in the AutoCAD system. Coordinate systems. Navigating the workspace.</p> <p>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.</p> <p><b>Skill check</b> Performance of tasks - quizzes Preparation of homeworks (2 or 3 per semester)</p>								
Prerequisites and co-requisites	<p>Acquaintance in geometry and the principles of making technical drawings.</p> <p>Acquaintance in the basics of CAD operating systems.</p>								
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="454 922 796 954">Subject passing criteria</th> <th data-bbox="799 922 1141 954">Passing threshold</th> <th data-bbox="1144 922 1482 954">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 958 796 987">CAD Homework , quizzes</td> <td data-bbox="799 958 1141 987">100.0%</td> <td data-bbox="1144 958 1482 987">100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	CAD Homework , quizzes	100.0%	100.0%
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Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. KŁOSOWSKI P.: <i>Ćwiczenia w kreśleniu rysunków w systemie AutoCAD 2010PL, AutoCAD 2011PL</i>, Wydawnictwo Politechniki Gdańskiej, Gdańsk 2011.</li> <li>2. Jaskulski A.: <i>AutoCAD 2014/LT2014/360(WS+)</i>, Kurs projektowania parametrycznego i nieparametrycznego 2D i 3D. PWN, 2014</li> <li>3. Pikoń A.: <i>AutoCAD 2022PL. Pierwsze kroki</i>. Helion, 2021.</li> <li>4. Pikoń A.: <i>AutoCAD 2023PL</i>. Helion, 2022.</li> <li>5. Kacprzyk Z., Pawłowska B.: <i>Komputerowe wspomaganie projektowania</i>. Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2012.</li> <li>6. Kasznia D., Magiera J., Wierzowiecki P.: <i>BIM w praktyce</i>. PWN, Warszawa, 2018. 7. Tomana A.: <i>BIM Innowacyjna technologia w budownictwie. Podstawy. Standardy. Narzędzia</i>. Kraków 2016.</li> </ol>							
	Supplementary literature	<ul style="list-style-type: none"> <li>• PN-EN ISO 13567-1:2002 <i>Dokumentacja techniczna wyrobu. Organizacja i nadawanie nazw warstwom w systemie CAD. Część 1: Zasady ogólne</i>.</li> <li>• PN-EN ISO 128-21: <i>Rysunek techniczny. Zasady ogólne przedstawiania. Część 21: Linie w systemie CAD</i>.</li> </ul>							
	eResources addresses	<p>Uzupełniające</p> <p><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30001">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30001</a> - Links to the course with the available recorded contents Topics of tasks in pdf file format. Quizzes Homework</p>							
Example issues/ example questions/ tasks being completed									
Work placement	Not applicable								