



Subject card

Subject name and code	, PG_00066713						
Field of study	Transport						
Date of commencement of studies	October 2025	Academic year of realisation of subject			2025/2026		
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			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Engineering Structures -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Migda				
	Teachers		dr inż. Patryk Deniziak				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
	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						
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	30		0.0		0.0	30
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_U05] able to use IT graphic techniques suitable for tasks typical of designing, construction, operation, and diagnosing means and transportation systems.		The student is able to read and create technical drawings using computer software.		[SU3] Assessment of ability to use knowledge gained from the subject		
[K6_W03] has knowledge of informatics, electronics, telecommunications, automation and control, information technologies, computer graphics, geodesy and satellite navigation which is useful for understanding how it can be applied in transport		The student knows the principles of using CAD software.		[SW3] Assessment of knowledge contained in written work and projects			

Subject contents	<p>Course content – laboratory Laboratory</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. 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>Skill check 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" data-bbox="451 943 1487 1010"> <thead> <tr> <th data-bbox="451 943 798 976">Subject passing criteria</th> <th data-bbox="798 943 1141 976">Passing threshold</th> <th data-bbox="1141 943 1487 976">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 976 798 1010">CAD Homework , quizzes</td> <td data-bbox="798 976 1141 1010">100.0%</td> <td data-bbox="1141 976 1487 1010">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"> 1. KŁOSOWSKI P.: <i>Ćwiczenia w kreśleniu rysunków w systemie AutoCAD 2010PL, AutoCAD 2011PL</i>, Wydawnictwo Politechniki Gdańskiej, Gdańsk 2011. 2. Jaskulski A.: <i>AutoCAD 2014/LT2014/360(WS+), Kurs projektowania parametrycznego i nieparametrycznego 2D i 3D</i>. PWN, 2014 3. Pikoń A.: <i>AutoCAD 2022PL. Pierwsze kroki</i>. Helion, 2021. 4. Pikoń A.: <i>AutoCAD 2023PL</i>. Helion, 2022. 5. Kacprzyk Z., Pawłowska B.: <i>Komputerowe wspomaganie projektowania</i>. Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2012. 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. 							
	Supplementary literature	<ul style="list-style-type: none"> • PN-EN ISO 13567-1:2002 <i>Dokumentacja techniczna wyrobu. Organizacja i nadawanie nazw warstwom w systemie CAD</i>. Część 1: Zasady ogólne. • PN-EN ISO 128-21: <i>Rysunek techniczny. Zasady ogólne przedstawiania</i>. Część 21: Linie w systemie CAD. 							
	eResources addresses								
Example issues/ example questions/ tasks being completed	Creating a technical drawing.								
Practical activities within the subject	Not applicable								

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