

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	, PG_00066713								
Field of study	Transport								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			e-learning			
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								
Name and surname	Subject supervisor dr inż. Wojciech Migda								
of lecturer (lecturers)	Teachers		dr inż. Wojciech Migda						
	dr inż. Patryk Deniziak								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours inclu	uded: 30.0							
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_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			
	[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			

Subject contents	Laboratory						
	Laboratory Laboratory 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. <b>Skill check</b> Performance of tasks - quizzes Preparation of homeworks (2 or 3 per semester)						
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	Passing threshold	Percentage of the final grade				
Recommended reading	CAD Homework , quizzes Basic literature	<ol> <li>100.0%</li> <li>100.0%</li> <li>1. KŁOSOWSKI P.: Ćwiczenia w kreśleniu rysunków w systemie AutoCAD 2010PL, AutoCAD 2011PL, Wydawnictwo Politechniki Gdańskiej, Gdańsk 2011.</li> <li>2. Jaskulski A.: AutoCAD 2014/LT2014/360(WS+), Kurs projektowania parametrycznego i nieparametrycznego 2D i 3D. PWN, 2014</li> <li>3. Pikoń A.: AutoCAD 2022PL. Pierwsze kroki. Helion, 2021.</li> <li>4. Pikoń A.: AutoCAD 2023PL. Helion, 2022.</li> <li>5. Kacprzyk Z., Pawłowska B.: Komputerowe wspomaganie projektowania. Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2012.</li> <li>6. 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.</li> </ol>					
	Supplementary literature	<ul> <li>PN-EN ISO 13567-1:2002 Dokumentacja techniczna wyrobu. Organizacja i nadawanie nazw warstwom w systemie CAD. Część 1: Zasady ogólne.</li> <li>PN-EN ISO 128-21: Rysunek techniczny. Zasady ogólne przedstawiania. Część 21: Linie w systemie CAD.</li> </ul>					
	eResources addresses	D: 44791 e/course/view.php?id=44791					
Example issues/ example questions/ tasks being completed	Creating a technical drawing.						
Work placement	Not applicable						

Document generated electronically. Does not require a seal or signature.