



## Subject card

Subject name and code	Geometry and Engineering Graphics II, PG_00041655						
Field of study	Transport and Logistics, Transport and Logistics						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2021/2022		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	Full-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 Marine Mechatronics -> Faculty of Ocean Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Leśniewski				
	Teachers		mgr inż. Tomasz Pająk  mgr inż. Alicja Bera  dr inż. Wojciech Leśniewski  dr inż. Jakub Kowalski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	45.0	0.0	60
	E-learning hours included: 0.0						
	Adresy na platformie eNauczanie: Grafika Inżynierska II 2021/22 Zima - Moodle ID: 18642 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18642">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18642</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	60		5.0		35.0	100
Subject objectives	Acquainting with the elements of executive drawing, complex machine and ship drawing. Presentation the possibility of creating technical documentation based on graphic programs.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U01] can obtain information from literature, databases and other sources, can verify and organize the obtained information, interpret them and form conclusions and justified opinions		The student knows the basic guidelines for creating technical documentation.		[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information		
	[K6_W04] has a basic knowledge in IT, electronics, automation and control, computer graphics useful to understand the possibilities of their application in transport		The student is able to prepare technical documentation for simple elements and assemblies.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		

Subject contents	<p>Getting to know the Autocad and Slidedge software.</p> <p>Basic commands and operations needed to execute 2D drawing and assembly drawing.</p> <p>Constructing 3D models</p> <p>Construction of simple assemblies in a 3D environment</p> <p>Creating technical documentation in an electronic version from the assigned axonometric views.</p> <p>Basics of ship's drawing</p>		
Prerequisites and co-requisites	Positive pass of the subject Engineer's Graphics I. Ability to handwritten sketches and simple technical drawings.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		50.0%	50.0%
		50.0%	50.0%
Recommended reading	Basic literature	<p>1.Rysunek techniczny maszynowy Tadeusz Dobrzański</p> <p>2.Rysunek techniczny w mechanice i budowie maszyn Paweł Romanowicz</p> <p>3.Rysunek techniczny Krzysztof Filipowicz, Mariusz Kuczaj, Aleksander Kowal</p> <p>4.Podstawy rysunku technicznego Jan Burcan</p> <p>5.AutoCad 2019 Pierwsze kroki Andrzej Pikoń</p> <p>7.Modelowanie w programie Solid Edge Podstawy <a href="#">Tomasz Gawroński</a></p>	
		Supplementary literature	
		6.Autodesk Inventor 2014. Oficjalny podręcznik	
	eResources addresses		Grafika Inżynierska II 2021/22 Zima - Moodle ID: 18642 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18642">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18642</a>
Example issues/ example questions/ tasks being completed	<p>Complete the detail drawing.</p> <p>Complete the assembly drawing</p> <p>Discuss the executive drawing</p> <p>Describe the elements used in the drawing</p> <p>Complete the drawing with missing descriptions and elements</p>		
Work placement	Not applicable		