GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Engineering Graphics 2, PG_00041635		
Field of study	Ocean Engineering, Ocean Engineering		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2020/2021
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study
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	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	dr inż. Wojciech Leśniewski mgr inż. Alicja Bera mgr inż. Tomasz Pająk	

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 2020/21 Lato - Moodle ID: 11956
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=11956

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	Ability to perform technical documentation based on available drawing standards.	[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
[K6_W04] has a basic knowledge in IT, electronics, automation and control, computer graphics useful to understand the possibilities of their application in ocean technology	Ability to use the Autocad and Solidedge environment to create technical documentation	[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge

Subject contents

Getting to know the Autocad and Slidedge software.

Basic commands and operations needed to execute 2D drawing and assembly drawing.

Constructing 3D models

Construction of simple assemblies in a 3D environment

Creating technical documentation in an electronic version from the assigned axonometric views.

Basics of ship's drawing

Prerequisites and co-requisites

Positive pass of the subject Engineer's Graphics I. Ability to handwritten sketches and simple technical drawings.

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td></td><td>50.0%</td><td>50.0%</td></tr>
<tr><td></td><td>50.0%</td><td>50.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1.Rysunek techniczny maszynowy Tadeusz Dobrzański

2.Rysunek techniczny w mechanice i budowie maszyn Paweł Romanowicz

3.Rysunek techniczny Krzysztof Filipowicz, Mariusz Kuczaj, Aleksander Kowal

4.Podstawy rysunku technicznego Jan Burcan

5.AutoCad 2019 Pierwsze kroki Andrzej Pikoń

7.Modelowanie w programie Solid Edge Podstawy Tomasz Gawroński</td></tr>
<tr><td>Supplementary literature</td><td>6.Autodesk Inventor 2014. Oficjalny podręcznik</td></tr>
<tr><td>eResources addresses</td><td>Grafika Inżynierska II 2020/21 Lato - Moodle ID: 11956
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=11956</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">Complete the detail drawing.

Complete the assembly drawing

Discuss the executive drawing

Describe the elements used in the drawing

Complete the drawing with missing descriptions and elements</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
</table>