GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Geometry and Engineering Graphics, PG_00055799		
Field of study	Transport and Logistics		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2023/2024
Education level	first-cycle studies	Subject group	
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	8.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Wojciech Leśniewski	
	Teachers	dr inż. Wojciech Leśniewski dr inż. Daniel Piątek mgr inż. Ewa Wojtowicz	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	30.0	0.0	30.0	0.0	90

E-learning hours included: 0.0

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	90	10.0	100.0	200

Subject objectives

- Development of spatial imagination,
- Understanding the rules for the implementation of technical documentation,
- Ability to perform drawing sketches of machine components,
- Ability to perform technical drawings;

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 is able to prepare 2D drawing documentation (projections, dimensions) of spatial solids and machine parts in accordance with the applicable TD rules	[SU3] Assessment of ability to use knowledge gained from the subject [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 transport	The Student proficiently uses design-aided software (AutoCAD) and uses it to prepare 2D drawing documentation	[SW1] Assessment of factual knowledge

Subject contents

LECTURE and TURTORIALS

- The role of engineering graphics, basics of normalization,
- Projections of parallel, rectangular and axonometric,
- Point, line, plane, determination, common points, specyfic locations,
- Solids of revolution and polyhedrons, puncture, cut, penetration,
- Views, examples, cross-sections,
- Dimensioning of components, dimensional tolerance, determination of the surface condition,
- Types of drawings, graphic form sheet, rules for the design documentation;

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">- Knowledge of geometry,
- Knowledge of basic machines and their construction;</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>lecture colloquium</td><td>60.0%</td><td>50.0%</td></tr><tr><td>project - drawings</td><td>60.0%</td><td>50.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">DOBRZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004

MIERZEJEWSKI, W.: Geometria wykreślna. Rzuty Monge'a. Oficyna Wyd. P. War.,2006</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">-</td></tr>
<tr><td>eResources addresses</td><td colspan="2">Adresy na platformie eNauczanie:
Grafika inżynierska (P), TiL (PG_00060629), sem. 1, zimowy 23/24 - Moodle ID: 31966
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31966
Grafika inżynierska (P), TiL (PG_00060629), sem. 1, zimowy 23/24 - Moodle ID: 31966
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31966</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3"></td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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