



Subject card

Subject name and code	Engineering Graphics, PG_00060506						
Field of study	Design and Construction of Yachts						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2023/2024		
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	1	ECTS credits			4.0		
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. Daniel Piątek					
	Teachers	mgr inż. Ewa Wojtowicz dr inż. Daniel Piątek dr inż. Wojciech Leśniewski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	30.0	0.0	60
	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	60	6.0		34.0	100	
Subject objectives	<ul style="list-style-type: none">- 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 RT rules			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment		
	[K6_W04] has knowledge in the field of computer science, electronics, electrical engineering, automation and control, information technology, computer graphics, useful for understanding the possibilities of their use in ocean engineering	The Student proficiently uses design-aided software (AutoCAD) and uses it to prepare 2D drawing documentation			[SW1] Assessment of factual knowledge		

Subject contents	<p>LECTURE and TUTORIALS</p> <ul style="list-style-type: none"> - The role of engineering graphics, basics of normalization, - Projections of parallel, rectangular and axonometric, - Point, line, plane, determination, common points, specific 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; 											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Subject passing criteria</th> <th style="width: 30%;">Passing threshold</th> <th style="width: 30%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>lecture - colloquium</td> <td>60.0%</td> <td>50.0%</td> </tr> <tr> <td>project - tech. drawings</td> <td>60.0%</td> <td>50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	lecture - colloquium	60.0%	50.0%	project - tech. drawings	60.0%	50.0%
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project - tech. drawings	60.0%	50.0%										
Recommended reading	<p>Basic literature</p> <p>DOBZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004</p> <p>MIERZEJEWSKI, W.: Geometria wykreślna. Rzuty Monge'a. Oficyna Wyd. P. War., 2006</p>											
	<p>Supplementary literature</p> <p>-</p>											
	<p>eResources addresses</p> <p>Adresy na platformie eNauczanie:</p> <p>Grafika inżynierska (P), PiBJ (PG_00060506), sem. 1, zimowy 23/24 - Moodle ID: 31428 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31428</p> <p>Grafika inżynierska (P), PiBJ (PG_00060506), sem. 1, zimowy 23/24 - Moodle ID: 31428 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31428</p> <p>Grafika inżynierska (P), PiBJ (PG_00060506), sem. 1, zimowy 23/24 - Moodle ID: 31428 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31428</p>											
Example issues/ example questions/ tasks being completed												
Work placement	Not applicable											