



## Subject card

Subject name and code	Engineering Graphics, PG_00060506						
Field of study	Design and Construction of Yachts						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
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 Naval Architecture -> Faculty Of Mechanical Engineering And Ship Technology -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Daniel Piątek				
	Teachers						
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	<div>- Development of spatial imagination,</div> <div>- Understanding the rules for the implementation of technical documentation,</div> <div>- Ability to perform drawing sketches of machine components,</div> <div>- Ability to perform technical drawings;</div>						
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	<div>LECTURE and TURTORIALS</div> <div>- The role of engineering graphics, basics of normalization,</div> <div>- Projections of parallel, rectangular and axonometric,</div> <div>- Point, line, plane, determination, common points, specyfic locations,</div> <div>- Solids of revolution and polyhedrons, puncture, cut, penetration,</div> <div>- Views, examples, cross-sections,</div> <div>- Dimensioning of components, dimensional tolerance, determination of the surface condition,</div> <div>- Types of drawings, graphic form sheet, rules for the design documentation;</div>						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	lecture - colloquium	60.0%	50.0%
	project - tech. drawings	60.0%	50.0%
Recommended reading	Basic literature	DOBRZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004  MIERZEJEWSKI, W.: Geometria wykreślna. Rzuty Monge'a. Oficyna Wyd. P. War.,2006	
	Supplementary literature	-	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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