

## GDAŃSK UNIVERSITY

## Subject card

Subject name and code	Engineering Graphics, PG_00060629								
Field of study	Transport and Logistics								
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	Subject supervisor		dr inż. Wojciech Leśniewski						
of lecturer (lecturers)	Teachers		mgr inż. Ewa Wojtowicz						
			dr inż. Daniel Piątek						
			dr inż. Wojciech Leśniewski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Proiec	:t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	30.0		0.0	45	
	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	45	5		4.0			100	
Subject objectives	<ul> <li>Development of spatial imagination,</li> <li>Understanding the rules for the implementation of technical documentation,</li> <li>Ability to perform drawing sketches of machine components,</li> </ul>								
	- Ability to perform technical drawings;								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W04] has well established knowledge in the field of computer science, electronics, automation and control, information technology and computer graphics, useful for understanding the possibilities of applying them in transport		The Student proficiently uses design-aided software (AutoCAD) and uses it to prepare 2D drawing documentation			[SW1] Assessment of factual knowledge			
	[K6_U01] can obtain information from literature, databases and other sources; verify and systematize the information obtained, interpret it and draw conclusions, formulate and justify opinions		he Student is able to prepare 2D drawing documentation (projections, dimensions) of spatial solids and machine parts in accordance with the applicable TD rules			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject			

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;						
Prerequisites and co-requisites	- Knowledge of geometry,						
	- Knowledge of basic machines and their construction;						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	project drawings	60.0%	50.0%				
	turtorials colloquiums	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:					
	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 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						
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						