

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	Subject supervisor	dr inż. Wojciech Leśniewski						
of lecturer (lecturers)	Teachers		dr inż. Wojciech Leśniewski					
		dr inż. Daniel Piątek						
	mgr inż. Ewa Wojtowicz							
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Lesson types and methods of instruction	Lesson type Number of study	Lecture 30.0	Tutorial 30.0	Laboratory 0.0	Projec 30.0	t	Seminar 0.0	SUM 90
or mistraction	hours	30.0	30.0	0.0	30.0		0.0	90
	E-learning hours inclu	ıded: 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
	 - 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 out	Subject outcome			Method of verification			
	[K6_U01] can obtain information from literature, databases and other sources, can verify and		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		
	[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 TURT	ORIALS						_
- 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;							

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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				
	lecture colloquium	60.0%	50.0%				
	project - 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:					
		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						

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