

Subject card

Subject name and code	Engineering graphics 1, PG_00041650								
Field of study	Transport and Logistics, Transport and Logistics								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						Subject group related to scientific research 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	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Marine	e Mechatronics	-> Faculty of C	Ocean Enginee	ering and	d Ship T	echnology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Agnieszka Maczyszyn							
	Teachers		dr inż. Agnieszka Maczyszyn						
	mgr inż. Ewa Wojtowicz								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct	Seminar	SUM	
of instruction	Number of study hours	15.0	30.0	0.0	0.0		0.0	45	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie: GRAFIKA INŻYNIERSKA I - Moodle ID: 14010 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14010 GRAFIKA INŻYNIERSKA I - Moodle ID: 14010 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14010								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in stud		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45			5.0			75	
Subject objectives	Introduction to Engineering Graphics. The development of spatial imagination. Engineering graphics as a basic tool for transmitting information about machine elements. Ability to draw sketches of drawing elements of machine parts using rectangular and axonometric projections. Understanding the basics of the construction.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[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 is able to interpret technical documentation prepared according to current drawing standards			[SW3] Assessment of knowledge contained in written work and projects			
	[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 understands the tasks and role of engineering graphics in technology and industry.			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
Subject contents	Understanding the role of engineering graphics, the basis for standardization. Parallel, rectangular and axonometric views. Point, line, plane, determination, common points, special positions. Rotary solids and polyhedrons, puncture, intersection. Views. Dimensioning of elements, tolerance of dimensions, determination of surface condition. The types of drawings, the graphic form of the sheet, the principles of performing executive and assembly documentation.								
Prerequisites and co-requisites	Knowledge of basic n	nachines and th	neir constructio	n;					

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	2 colloquium including lectures	60.0%	50.0%			
	2 colloquia of exercises	60.0%	30.0%			
	Drawing exercises	60.0%	20.0%			
Recommended reading	Basic literature	Descriptive Geometry (9th Edition) by <u>E.G. Pare</u> , <u>Robert Olin Loving</u> , <u>Ivan L. Hill</u> , <u>R.C. Pare</u> ISBN-13: 978-0023913419ISBN-10: 002391341X				
	Supplementary literature	Monge's Legacy of Descriptive and Differential Geometry Paperback March 11, 2016 by Kristen R. Schreck				
	eResources addresses	Uzupełniające				
		GRAFIKA INŻYNIERSKA I - Moodle ID: 14010 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14010				
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Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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