

Subject card

Subject name and code	Engineering Graphics 1, PG_00044633								
Field of study	Ocean Engineering, Ocean Engineering								
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			
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			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Marine Mechatronics -> Faculty of Ocean Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Agnieszka Maczyszyn							
	Teachers		dr inż. Magdalena Kunicka						
		dr inż. Agnieszka Maczyszyn							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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: Engineering Graphics 1 - Moodle ID: 8263 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8263 Engineering Graphics 1 - Moodle ID: 8263 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8263								
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		5.0		25.0		75	
Subject objectives	- 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 acquires the ability to create drawings of machine elements in accordance with the standards of technical drawing.			[SU1] Assessment of task fulfilment			
	[K6_W04] has a basic knowledge in IT, electronics, automation and control, computer graphics useful to understand the possibilities of their application in ocean technology		The student acquires the ability to present rectangular machine elements in plans			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			

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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	- Knowledge of geometry,						
and co-requisites	- Knowledge of basic machines and their construction;						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	turtorials tech. drawings	60.0%	30.0%				
	lecture colloquium	55.0%	40.0%				
	turtorials colloquiums	60.0%	30.0%				
Recommended reading	Basic literature	DOBRZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004 MIERZEJEWSKI, W.: Geometria wykreślna. Rzuty Monge'a. Oficyna Wyd. P. War.,2006					
	upplementary literature DOBRZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004 Kurmaz L.W.: Projektowanie węzłów i części maszyn. Wydawnictwo						
	Politechniki Świętokrzyskiej, 2007						
	eResources addresses	Engineering Graphics 1 - Moodle ID: 8263 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8263 Engineering Graphics 1 - Moodle ID: 8263					
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8263					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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