

Subject card

Subject name and code	, PG_00056304							
Field of study	Ocean Engineering							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies		Subject group			Optional subject group 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	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			5.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology				Ship			
Name and surname	Name and surname Subject supervisor		dr inż. Piotr Bzura					
of lecturer (lecturers)			mgr inż. Dominik Kreft					
			dr inż. Piotr Bzura					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	15.0	15.0	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 stud		Participation in consultation hours		Self-study		SUM
	Number of study 60 hours		10.0		55.0		125	
Subject objectives	The aim is to acquiring the skills and knowledge necessary to design and make drawings of the indicated part of device using 3D software (Autodesk Inventor).							
Learning outcomes					Method of veri	fication		
	[K6_U03] can use computer-aided design, production and operation tools for ocean technology objects and systems		The student knows examples of tools supporting design processes and is able to use them		[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools			
	[K6_W03] has a basic knowledge on hydromechanics, thermodynamics, machine construction, ecology, materials science and electronics necessary to understand the construction and operation principles of ocean technology objects and equipment		The student understands the purpose and principles of designing sample machine parts.			[SW3] Assessment of knowledge contained in written work and projects		
	II 5 -		Student is able to choose the optimal device solution for the intended purpose.			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
	[K6_W08] has knowledge of the principles of sustainable development		The student knows the various possibilities of supporting the design process			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Technical drawing, basics of machine construction, engineering graphics, 3d modeling							
Prerequisites and co-requisites	Knowledge of the basic principles of creating drawing documentation, technical drawing, basic knowledge of the strength of materials and mechanics.							
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria			50.0%			50.0%		
		50.0%			50.0%			

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Recommended reading	Basic literature	1.Rysunek techniczny w mechanice i budowie maszyn Paweł					
Recommended reading Basic literature		Romanowicz					
		2.Rysunek techniczny Krzysztof Filipowicz, Mariusz Kuczaj, Aleksander Kowal					
		Tional Ti					
		2. Dodotovu povola tochojoznogo Jon Burgon					
		Podstawy rysunku technicznego Jan Burcan					
		AutoCad 2019 Pierwsze kroki Andrzej Pikoń					
		5.Modelowanie w programie Solid Edge Podstawy Tomasz Gawroński					
		6. Dietrich M.: Podstawy Konstrukcji Maszyn, tomy 1,2 i 3					
		7. Kochanowski M.: Wybrane zagadnienia z Podstaw Konstrukcji					
		Maszyn, skrypt PG 2002r.					
		Dobrzański J.: Rysunek Techniczny Maszynowy					
		9. Spotts M. F., Design of Machine Elements, Prentice Hall					
		10. Autodesk Inventor 2014. Oficjalny podręcznik					
	Owner laws and any literature	Enhance Otto a lab. This is for insert. A standard laboratory COAO I Com-					
	Supplementary literature	Fabian Stasiak Zbiór ćwiczeń Autodesk Inventor 2018 Kurs podstawowy					
	eResources addresses	Adresy na platformie eNauczanie:					
		Komputerowe wspomaganie projektowania maszyn					
		okrętowych,W,SiUO,sem.3,zimowy 22/23 - Moodle ID: 26273 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26273					
		Komputerowe wspomaganie projektowania maszyn					
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Example issues/	Based on the presented examples and assumptions, design and prepare drawings and documentation of						
example questions/	selected elements of the loading crane.						
tasks being completed							
	Based on the presented examples a selected elements of the loading rai	and assumptions, design and prepare drawings and documentation of					
	The second secon						
	Based on the presented examples and assumptions, design and prepare drawings and documentation of						
	selected elements of the hybrid module crane.						
	Decad on the managed account of a control of the co						
	Based on the presented examples and assumptions, design and prepare drawings and documentation of selected elements of the gondola's crane						
Work placement	Not applicable						
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