

## Subject card

Subject name and code	, PG_00056326								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
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	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			3.0			
Learning profile			Assessment form			assessment			
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology					Ship			
Name and surname	Subject supervisor		dr inż. Wojciech Leśniewski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	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 classes includ plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45	5.0		25.0			75	
Subject objectives	The aim is to acquiring the skills and knowledge necessary to design and make drawings of the indicated device using 3D software (Autodesk Inventor). Implemented as a supplement to design work aimed at acquiring the ability to use the software on the example of the designed ocean engineering device.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
			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			
						[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
	[K6_W06] has an organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of ocean technology objects and systems		Student is able to make calculations and documentation of the designed device based on computer tools.			[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 understands the need to learn many design techniques.			[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				
Assessment methods	Subject passin	g criteria	Pass	ing threshold		Per	centage of the	final grade	
Assessment methods and criteria	Subject passin	g criteria	Pass 50.0%	ing threshold		Pero 50.0%	centage of the	final grade	

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Recommended reading	Basic literature	1.Rysunek techniczny w mechanice i budowie maszyn Paweł					
		Romanowicz					
		2.Rysunek techniczny Krzysztof Filipowicz, Mariusz Kuczaj, Aleksander					
		Kowal					
		Podstawy rysunku technicznego Jan Burcan					
		A Auto Ond 2040 Pinners I had in Andrew Piller					
		4. AutoCad 2019 Pierwsze kroki Andrzej Pikoń					
		5 Madalawania wanasania Calid Edga Dadatawa Tanasan Cawantaki					
		5.Modelowanie w programie Solid Edge Podstawy Tomasz Gawroński					
		6. Dietrich M.: Podstawy Konstrukcji Maszyn, tomy 1,2 i 3					
		o. Significant in the content of the					
		7. Kochanowski M.: Wybrane zagadnienia z Podstaw Konstrukcji					
		Maszyn, skrypt PG 2002r.					
		8. Dobrzański J.: Rysunek Techniczny Maszynowy					
		Spotts M. F., Design of Machine Elements, Prentice Hall					
		40. Autodople lavorator COMA. Official according					
		10. Autodesk Inventor 2014. Oficjalny podręcznik					
	Supplementary literature	Fabian Stasiak Zbiór ćwiczeń Autodesk Inventor 2018 Kurs podstawowy					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/	Based on the presented examples a	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 and assumptions, design and prepare drawings and documentation of selected elements of the loading ramp crane.						
	Based on the presented examples and assumptions, design and prepare drawings and documentation of selected elements of the hybrid module crane.						
	Sciected ciements of the Hypho module crane.						
	Based on the presented examples and assumptions, design and prepare drawings and documentation of						
VAV. 1. 1.	selected elements of the gondola's crane						
Work placement	Not applicable						

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