

Subject card

Subject name and code	, PG 00056326								
Field of study	Ocean Engineering								
Date of commencement of	October 2021		Academic year of			2023/2024			
studies			realisation of subject			2020/2024			
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	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	Subject supervisor		dr inż. Wojciech Leśniewski						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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 include 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			
			Student is able to determine the operating conditions and design assumptions for a selected machine intended for ocean engineering objects.			[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			Percentage of the final grade			
and criteria	a says of parameters of announce		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				
		Romanowicz				
		2.Rysunek techniczny Krzysztof Filipowicz, Mariusz Kuczaj, Aleksander				
		Kowal				
		Podstawy rysunku technicznego Jan Burcan				
		4. AutoCad 2019 Pierwsze kroki Andrzej Pikoń				
		5 Madelawania w masazania Calid Edga Dadatawa Tanasan Cawanfalii				
		5.Modelowanie w programie Solid Edge Podstawy Tomasz Gawroński				
		6. Dietrich M.: Podstawy Konstrukcji Maszyn, tomy 1,2 i 3				
		b. Biethori W. Fodotawy Poriotianoji Madzyri, torny 1,2 Fo				
		7. Kochanowski M.: Wybrane zagadnienia z Podstaw Konstrukcji				
		Maszyn, skrypt PG 2002r.				
		8. Dobrzański J.: Rysunek Techniczny Maszynowy				
		9. Spotts M. F., Design of Machine Elements, Prentice Hall				
		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/ example questions/ tasks being completed	Based on the presented examples and assumptions, design and prepare drawings and documentation of 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.					
	Perced on the presented examples and assumptions, design and prepare drawings and desumentation of					
	Based on the presented examples and assumptions, design and prepare drawings and documentation of selected elements of the hybrid module crane.					
	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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