

Subject card

Subject name and code	Computer Aided Design of Ship Systems, PG_00060565								
Field of study	Naval Architecture and Offshore Structures								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028			
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	at the university		
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			asses	assessment		
Conducting unit	Institute Of Naval Arc Politechniki Gdańskie	culty Of Mechanical Engineering And Ship Technology -> Wydziały							
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	45.0		0.0	60	
	E-learning hours inclu	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation consultation I	articipation in onsultation hours		tudy	SUM	
	Number of study hours	60		6.0		59.0		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	Course outcome		Subject outcome			Method of verification			
	[K6_U03] can use computer-aided design, production and operation tools for ocean technology objects and systems		on computer software			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[K6_W04] has knowledge in the field of computer science, electronics, electrical engineering, automation and control, information technology, computer graphics, useful for understanding the possibilities of their use in ocean engineering		Is able to use and develop the knowledge needed to solve a design task.			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[K6_U02] can work individually and in a team, communicate through various techniques in professional environment and also record, analyse, and present the results of work, can estimate the time needed to complete a given task		Formulates basic problems flow and solves them in based on laws and methods machine design and construction			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
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 and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
			50.0%			50.0%			
			50.0%			50.0%			

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Recommended reading	Basic literature	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.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.					
		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.						
action boiling completion	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.						
	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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