

## GDAŃSK UNIVERSITY

## Subject card

Subject name and code	Computer Aided Design of Ship Systems, PG_00060565								
Field of study	Naval Architecture ar	nd Offshore Stru	uctures						
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027			
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	5		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Naval Arch	hitecture -> Fac	culty of Mechar	nical Engineerir	ng and S	Ship Te	chnology		
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	45.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study		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_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			[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 [SU5] Assessment of ability to present the results of task			
	[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.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
	[K6_U03] can use computer-aided design, production and operation tools for ocean technology objects and systems		He solves design problems based on computer software		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools				
	and systems					use me	thods and too	S	
Subject contents	and systems Technical drawing, ba	asics of machin	e construction,	, engineering g	raphics,	use me , 3d mo	ethods and tool	S	
Subject contents Prerequisites and co-requisites	and systems Technical drawing, ba Knowledge of the bas the strength of materi	asics of machin sic principles of als and mecha	e construction, creating drawi nics.	, engineering g ng documenta	raphics, tion, tec	, 3d mo	ethods and too deling Irawing, basic	s knowledge of	
Subject contents Prerequisites and co-requisites Assessment methods	and systems Technical drawing, back Knowledge of the base the strength of materia	asics of machin sic principles of als and mecha g criteria	e construction, creating drawi nics.	, engineering g ng documentat ing threshold	raphics, tion, tec	use me , 3d mo hnical c Per	ethods and too deling Irawing, basic centage of the	s knowledge of final grade	
Subject contents Prerequisites and co-requisites Assessment methods and criteria	and systems Technical drawing, ba Knowledge of the bas the strength of materi Subject passin	asics of machin sic principles of als and mecha g criteria	e construction, creating drawi nics. Pass 50.0%	, engineering g ng documentat ing threshold	raphics, tion, tec	use me , 3d mo hnical c Per 50.0%	ethods and tool deling Irawing, basic centage of the	s knowledge of final grade	

Recommended reading	Basic literature	1. Rysunek techniczny w mechanice i budowie maszyn Paweł					
	1	Romanowicz					
	1	2.Rysunek techniczny Krzysztof Filipowicz, Mariusz Kuczaj, Aleksander					
		Nowai					
		3. 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. Koshanowski M : Wyhrane zagadnienia z Podstaw Konstrukcji					
		Maszyn, skrypt PG 2002r.					
		8. Dobrzański I : Rysunek Techniczny Maszynowy					
		A A MARTIN DATE OF A State Classifier Departice Hell					
		9. Spotts M. F., Design of Machine Elements, Prentice nail					
		10. Autodesk Inventor 2014. Oficjalny podręcznik					
	Supplementary literature	Fabian Stasiak Zbior cwiczen Autodesk Inventor Zulio Kurs podstawowy					
	eResources addresses	Adresv na platformie eNauczanie:					
Evample issues/	Based on the presented examples and assumptions, design and prepare drawings and documentation						
example questions/	selected elements of the loading crane.						
tasks being completed							
	Based on the presented examples a	Based on the presented examples and assumptions, design and prepare drawings and documentation of					
	selected elements of the loading ramp crane.						
	(	i i i i i i i i i i i i i i i i i i i					
	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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