



## Subject card

Subject name and code	, PG_00057304						
Field of study	Ocean Engineering						
Date of commencement of studies	February 2023	Academic year of realisation of subject				2023/2024	
Education level	second-cycle studies	Subject group				Optional subject group Subject group related to scientific research in the field of study	
Mode of study	Part-time studies	Mode of delivery				at the university	
Year of study	1	Language of instruction				Polish	
Semester of study	2	ECTS credits				4.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Zakład Projektowania Okrętu -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Przemysław Krata				
	Teachers		dr hab. inż. Przemysław Krata				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	18.0	18.0	0.0	36
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	36		15.0		49.0	100
Subject objectives	The aim of subject is a deepening the knowledge of design methods used in the initial design of ocean unites, in the field of hull modeling, making proof calculations and estimating performance.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K7_U05] can conduct an initial economic analysis of an investment in the range of ocean technology, indicate detailed rules of law and branch regulations		The student defines and applies the economic and safety criteria for the project.			[SU2] Assessment of ability to analyse information	
	[K7_W06] has an organized, widened knowledge on engineering methods and design tools allowing the conducting of advanced projects within the construction and operation of ocean technology objects and systems		The student has an organized knowledge of engineering methods and design tools enabling the implementation of projects in the field of construction and operation of facilities and ocean engineering systems			[SW3] Assessment of knowledge contained in written work and projects	
	[K7_W05] has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems		The student reaches structured knowledge in the design, construction and operation of ocean engineering facilities and systems			[SW3] Assessment of knowledge contained in written work and projects	
	[K7_U03] can conduct a detailed analysis of the obtained results and present them in the form of a technical report or presentation, also in English		The student can formulate a simple engineering task in the field of design, production and operation of ocean engineering facilities and systems. The students can analyze the results and present them in the form of a report			[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject	

Subject contents	<ol style="list-style-type: none"> <li>1. Analysis of the needs, requirements engineering in ocean-related market</li> <li>2. Analysis of the state of the art and dominant solutions</li> <li>3. Suggestions for several concepts of ocean units and choosing one to implement</li> <li>4. Preliminary design (the level of detail depends on the topic)</li> <li>5. Selection of tools (2D / 3D, CAD)</li> <li>6. Project implementation (up to the teachers decision)</li> <li>7. Public presentation of the projects</li> </ol>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Subject passing criteria</th> <th style="width: 30%;">Passing threshold</th> <th style="width: 30%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>Delivery of a project report</td> <td>100.0%</td> <td>50.0%</td> </tr> <tr> <td>Teacher's subjective judgement</td> <td>100.0%</td> <td>25.0%</td> </tr> <tr> <td>Public presentation of the project</td> <td>100.0%</td> <td>25.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Delivery of a project report	100.0%	50.0%	Teacher's subjective judgement	100.0%	25.0%	Public presentation of the project	100.0%	25.0%
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Example issues/ example questions/ tasks being completed	The initial design of drilling ship														
Work placement	Not applicable														