

Subject card

Subject name and code	Design of ocean engineering facilities, PG_00057231								
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	Full-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 inż. Maciej Reichel							
	Teachers		dr inż. Maciej Reichel						
			dr inż. Tomas	dr inż. Tomasz Hinz					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	30.0	30.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan				Self-study SUM		SUM	
	Number of study hours	60		15.0				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_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			
	[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_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			

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Subject contents	Analysis of the needs, requirements engineering in ocean-related market						
	2. Analysis of the state of the art and dominant solutions						
	3. Suggestions for several concepts od ocean units and choosing one to implement						
	4. Preliminary design (the level of detail depends on the topic)						
	5. Selection of tools (2D / 3D, CAD)						
	Project implementation (up to the teachers decision) Public presentation of the projects						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Public presentation of the project	100.0%	25.0%				
	Teacher's subjective judgement	100.0%	25.0%				
	Delivery of a project report	100.0%	50.0%				
Recommended reading	Basic literature	According to the topic of the project, given by the teacher					
	Supplementary literature According to the topic of the project, given by the teacher						
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	The initial design of drilling ship						
Work placement	Not applicable						

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