

Subject card

Subject name and code	MARINE CIVIL ENGINEERING AND OCEAN ENGINEERING, PG_00042258								
Field of study	Civil Engineering								
Date of commencement of	February 2025	Acadomic year of			2025/2026				
studies	T Colucity 2020		Academic year of realisation of subject			2025/2026			
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	Polish		
Semester of study	2		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Geotechnics, Geology and Marine Civil Engineering -> Faculty of Civil and Environmental Engineering						vironmental		
Name and surname	Subject supervisor		dr hab. inż. Waldemar Magda						
of lecturer (lecturers)	Teachers		, , ,						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	et	Seminar	SUM	
	Number of study hours	30.0	0.0	0.0	30.0	0.0		60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes included				Self-study		SUM	
	Number of study hours	60		5.0		35.0		100	
Subject objectives	Presentation of basic problems related with design and operating of offshore structures.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K7_U10] can analyse complicated environmental loads acting on a construction; can apply proper processes to design marine and hydroengineering constructions taking into consideration hydrological and hydraulical impact		A student is able to analyze complex patterns of environmental loadings acting on: jack-up rigs, semi-submersible rigs, anchoring systems, and submarine pipelines.			[SU1] Assessment of task fulfilment			
	[K7_U01] can evaluate and list any loads acting on constructions		A student is able to estimate and complete hydrostatic and hydrodynamic loads acting on: jack-up rigs and semi-submersible rigs, anchoring systems and submarine pipelines.			[SU1] Assessment of task fulfilment			
	constructions; has knowledge		A student has an extended knowledge on offshore structures and types of loadings acting on structures.			[SW1] Assessment of factual knowledge			
Subject contents	Minerals dissolved in sea water and mineral resources of the seabed. Exploration investigations and systems for operating, storage and production of hydrocarbons, especially natural gas and crude oil. Submarine pipelines (operating parameters, classical methods of pipe laying on a seabed, vertical stability of pipelines buried in seabed sediments. Mooring systems of floating offshore structures (e.g. semi-submersibles). Systems of natural gas utilization on drilling and production platforms.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	design case		60.0%		50.0%				
	written test		60.0%			50.0%			

Data wygenerowania: 21.11.2024 22:39 Strona 1 z 2

Recommended reading	Basic literature Supplementary literature	 Magda W.: Budownictwo morskie. Wybrane zagadnienia wraz z przykładami obliczeniowymi. Wydawnictwo Naukowe PWN, Warszawa, 2020. Magda W.: Rurociągi podmorskie. Zasady projektowania. Wydawnictwo-Naukowo Techniczne, Warszawa, 2004. Mazurkiewicz B.: Oceanotechnika. Zagadnienia wybrane. Politechnika Gdańska, Gdańsk, 1996. Mazurkiewicz B.: Stałe pełnomorskie platformy żelbetowe. Wydawnictwo Morskie, Gdańsk, 1985. Mazurkiewicz B.: Stałe pełnomorskie platformy stalowe. Wydawnictwo Morskie, Gdańsk, 1988. Karlic S.: Zarys górnictwa morskiego. Wydawnictwo "Śląsk"", Katowice, 1983. Brahtz J. F.: Oceanotechnika. Wydawnictwo Morskie, Gdańsk, 			
	Supplementary interactive	 Braitz F. F. Oceanolectinika. Wydawnictwo Morskie, Gdarsk, 1974. Inżynieria Morska i Geotechnika (dwumiesięcznik, biblioteka Wydziału). Zeszyty naukowe Katedry Budownictwa Morskiego PG, seria - Studia i Materiały (biblioteka Wydziału). 			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 21.11.2024 22:39 Strona 2 z 2