

Subject card

Cubicot name and and	MARINE CIVIL ENCINEEDING DC 00044222								
Subject name and code	MARINE CIVIL ENGINEERING, PG_00044232								
Field of study	Civil Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group			Optional subject group			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Geotechnics, Geology and Marine Civil Engineering -> Faculty of Civil and Environmental Engineering							ronmental	
Name and surname	Subject supervisor		dr hab. inż. Waldemar Magda						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	oject Seminar		SUM	
of instruction	Number of study hours	15.0	0.0	0.0	15.0	0.0		30	
	E-learning hours inclu	ıded: 0.0				i			
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		5.0	40.0			75	
Subject objectives	The main target is to acquaint a student with typical shipyard structures and methods of definition of loadings (static and dynamic) acting onto structures.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_W09] knows the principles of determining of loads acting on basic constructions (e.g. general, industrial, bridge, water, marine, transport objects) and rules of its constructing		A student knows basic principles of definition of loadings acting onto selected marine civil engineering structures (shipyard structures in particular); a student is familiar with basic construction methods.			[SW2] Assessment of knowledge contained in presentation			
	[K6_W07] has basic knowlede on natural processes (hydrological, hydraulical or geological) and its influence on building subsoil; understands specific aspects of surface and underground water, which constraints the design and exploitation of buildings and engineering objects		A student has a basic knowledge of environmental processes (e.g. sea state, wind, wind waves) and their influence on seabed floor and sediments; a student understands the diversity and specific nature of different sea regions, as well as their consequences on design and operation of marine civil engineering structures.			[SW2] Assessment of knowledge contained in presentation			
	[K6_U01] can evaluate and list the loads acting on constructions					[SU1] Assessment of task fulfilment			
	[K6_U07] Can design and properly dimension basic elements of construction or basic foundations of general, hydrotechnical and bridge constructions		A student is able to make a design of basic structural elements or typical foundations for marine civil engineering structures (shipyard structures in particular).			[SU1] Assessment of task fulfilment			
Subject contents	Characteristics and construction solutions with respect to longitudinal and side slipways. Ship launching longitudinal slipways (phases of launching and dynamic loadings). Launching of ships, floating docks and floating platforms from side slipways (phases of launching and dynamic loadings). Types of of dry docks (grawitational, drainage, anchored). Dry dock gates. Calculations of slipways and dry docks. Mooring and fenderind structures - types and design.								
Prerequisites and co-requisites	No requirements								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	design case	60.0%	50.0%			
	oral or written test	60.0%	50.0%			
Recommended reading	Basic literature	Hueckel S.: Budownictwo morskie. Tom I, II, III, IV, Wydawnictwo Morskie, Gdańsk, 1972.				
		Mazurkiewicz B.: Hydrotechniczne konstrukcje stoczniowe, cz. I i II. Wydawnictwo Morskie, Gdańsk 1981.				
		3. Mazurkiewicz B.: Pochylnie podłużne i poprzeczne. Budownictwo Wodne nr 16 Zeszyty Naukowe Politechniki Gdańskiej, Gdańsk 1971.				
		4. Mazurkiewicz b.: Doki suche. Gdańskie Towarzystwo Naukowe, Acta Technica Gedanensisia nr 8, Gdańsk 1970.				
		5. Mazurkiewicz B.: Urządzenia cumownicze. Politechnika Gdańska, Wydział Hydrotechniki, Gdańsk 1983.				
		6. Mazurkiewicz B.: Urządzenia odbojowe. Politechnika Gdańska, Katedra Budownictwa Morskiego, Gdańsk 1991.				
		7. Mazurkiewicz B.: Encyklopedia Inżynierii Morskiej. Wydawnictwo Morskie, Gdańsk, 1986.				
	Supplementary literature	Poradnik hydrotechnika. Praca zbiorowa pod red. S. Massela, Wydawnictwo Morskie, Gdańsk, 1992.				
		Morskie budowle hydrotechniczne. Zalecenia do projektowania i wykonawstwa Z 1 - Z 45. Praca zbiorowa pod red. B. Mazurkiewicza, FPPOiGM, Gdańsk, 2006.				
		3. Shore Protection Manual, USA, 1984.				
		4. Handbook Quay Walls. Rotterdam, Taylor & Grancis, Gouda, The Netherlands, 2005.				
		5. Inżynieria Morska i Geotechnika (dwumiesięcznik).				
	eResources addresses	Adresy na platformie eNauczanie:				
		Budownictwo morskie - Moodle ID: 34743 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34743				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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