

Subject card

Subject name and code	SEMINAR ON PORTS AND WATERWAYS, PG_00041433								
Field of study	Civil Engineering								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Optional subject group			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		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								
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Lech Bałachowski						
	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	0.0		30.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		5.0		40.0		75	
Subject objectives	Enlarged knowledge in the domain of port design, port and hydrotechnic structures, and waterways.								
Learning outcomes	Course outcome Subject outcome Method of verification								
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile		Student is able to analyze the behavior of marine and hydrotechnic structures.						
	[K7_W11] has deep knowlege of marine and inland hydotechnical constructions; has knowledge about hydraulical and hydrological constrains in design and exploitation of buildings		Student knows the questions related to construction and maintenance of marine and hydrotechnic structures.						
	[K7_K04] understands the necessity of dissemination civil engineering knowlege in the society and to suport the proffesional ethos of a civil engineer		Student gives presentation concerning marine and hydrotechnic civil engineering.						
	[K7_K02] Rocognizes the significance of knowledge in solving cognitive and practical problems; reliably evaluates results of his own and team research		Student is able to know and analyse polish and foreign bibliography in the considered domain.						
Subject contents	Construction and maintenance of ports. Port structures. Coast protection. The use of dredged materials. Soil improvement in marine civil engineering. Canals in Poland. Hydrotechnic structures on waterways. Water power stations. Offshore structures.								
Prerequisites and co-requisites	Knowledge of soil mechanics, hydraulics, hydrology, concrete technology, foundation engineering, soil improvement and earthworks.								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	presentation		60.0%			50.0%			
	presence and activity	70.0%			50.0%				

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Recommended reading	Basic literature	Journal of Ports and Waterways					
		www.dredgdikes.eu					
		a. ougunou ou					
		www.smocs.eu					
	Supplementary literature	Lech Bałachowski, Norbert Kurek, Deep soil compaction of sandy soils, Studia Geotechnica et Mechanica, 4/2014					
		Lech Bałachowski, Physical modelling of geotechnical structures in ports and offshore, Journal of Maritime Research, 4/2017					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Port constructions in Poland and abroad						
	Waterways						
	Soil improvement in ports						
Work placement	Not applicable						

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