

Subject card

Subject name and code	Hydrogeology of the coastal zone - auditory exercises, PG_00159384						
Field of study	Oceanography						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	undergraduate studies		Subject group				
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		1.0		
Learning profile	academic		Assessment form				
Conducting unit	Katedra Geofizyki -> Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Leszek Łęczyński				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	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	15		3.0		15.0	33
Subject objectives	Knowledge of hydrodynamic conditions shaping fresh and saline water balance on seashores. Ability to predict saltwater intrusion into aquifers.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	OCEANL3-W01	To an advanced degree, knows and understands the terminology specific to coastal zone hydrogeology in sciences and natural sciences (in Polish), with particular emphasis on marine sciences	[SW3] text preparation/written work
	OCEANL3-W05	Knows and understands the importance of basic techniques, research methods and tools (mathematical, statistical, IT) for the description and interpretation of phenomena and processes occurring in aquifers in the coastal zone	[SW3] text preparation/written work
	OCEANL3-U02	Be able to process the results of hydrogeological investigations and analyses in a manner and make correct inferences based on them	[SU3] text preparation/written work
	OCEANL3-U12	Can systematically extend and update knowledge in the field of hydrogeology of the coastal zone of the sea and improve professional qualifications	[SU3] text preparation/written work
	OCEANL3-U03	Be able to process the results of hydrogeological investigations and analyses in a manner and make correct inferences based on them	[SU3] text preparation/written work
	OCEANL3-W02	Knows and understands the basic physical, chemical, and geological processes and phenomena occurring in the marine coastal zone affecting aquifers in its area	[SW3] text preparation/written work
	OCEANL3-W06	Knows and understands the principles of water resource management in the coastal zone of the sea and the consequences of fresh and saltwater imbalance	[SW3] text preparation/written work
	OCEANL3-U05	Be able to apply computer software and mathematical and statistical methods in the analysis of data and the description of phenomena and processes occurring between fresh and salt waters in the coastal zone of the sea	[SU3] text preparation/written work
Subject contents	Hydrogeological cross-section, Map of hydroisohips and hydroisobaths Determination of filtration coefficient. Analysis of the chemical composition of groundwater and marine water.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Assessment of text works	51.0%	100.0%
Recommended reading	Basic literature	Macioszczyk A., Dobrzyński, 2003. Hydrogeochemia wód podziemnych strefy aktywnej wymiany. PWN, Warszawa Paczyński B, Sadurski A. (red.), 2007, Hydrogeologia regionalna Polski, PIG, Warszawa. Pazdro Z., Kozerski B., 1989. Hydrogeologia ogólna. Wyd. Geol., Warszawa. Piekarek-Jankowska H., 1994, Zatoka Pucka jako obszar drenażu wód podziemnych. Wydawnictwo Uniwersytetu Gdańskiego	
	Supplementary literature	Kleczkowski, A. S., (red.), 1984, Ochrona wód podziemnych, Wyd. Geol., Warszawa Kozerski B.(red), 2007, Gdański system wodonośny, Wydawnictwo Politechniki Gdańskiej, Gdańsk. Macioszyk A., 1987. Hydrogeochemia. Wyd. Geolog., Warszawa. Słownik hydrogeologiczny red. Kleczkowski A., Rózkowski A., 1997, Wydawnictwo TRIO. Ustawa, Prawo wodne. z dnia 18 lipca 2001 r. (Dz. U. 2001.115.1229)	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	-		
Work placement	Not applicable		

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