

Subject card

Subject name and code	DEWATERING IN CIVIL ENGEENERING, PG_00044239							
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			2.0		
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		prof. dr hab. inż. Adam Szymkiewicz			<u> </u>		
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
	Number of study hours E-learning hours inclu	15.0	15.0	0.0	0.0		0.0	30
L complete a continuit.		n didactic	Destruction to			Self-study SUM		
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Participation in consultation hours		uuy	SUM
	Number of study hours	30		5.0				50
Subject objectives	To familiarize students with basic principles of design and operation of dewatering systems, with focus on construction dewatering.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_W15] Has knowlege of construction law and environmetal impact of investment realisation					[SW1] Assessment of factual knowledge		
	[K6_W16] Has deeper and adequate knowlege of civil engineering, within offered specialization		Students have knowledge on design and operation of dewatering systems			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U17] has specialized skills in civil engineering within offered specialization		Students gain skills in designing dewatering systems		[SU4] Assessment of ability to use methods and tools			
Subject contents	Groundwater occurence and its impact on structures. Horizontal drainage systems. Dewatering of							
Prerequisites and co-requisites	excavations. Impact of dewatering on surroundings. Knowledge of soil mechanics and foundation egineering							
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade			
and criteria	completing project exercises		50.0%			100.0%		
Recommended reading	Basic literature		E. <i>Mielcarzewicz</i> (1990), Odwadnianie terenów zurbanizowanych i przemysłowych					
		J. Sokołowski, A. Żbikowski (1993), Odwodnienia budowlane i osiedlowe						
	Supplementary literature		Cashman, P. M., & Preene, M. (2020). Groundwater lowering in construction: a practical guide to dewatering. CRC Press.					
	eResources addresse	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Calculating groundwater discharge to excavation. Placing groundwater wells around excavation. Calculating groundwater discharge to horizontal drains.							

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Work placement	Not applicable

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