

1.	Field of study	Water Management - Aquamatics
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2025/2026 (winter term)
4.	Level of qualifications/degree	first-cycle studies (in engineering)
5.	Degree profile	general academic
6.	Mode of study	Full-time

7.	General information about the module	
Module name		Basics of hydrogeology - field classes
Module code		W2-GW-AQ-S1-045
Number of the ECTS credits		2
Language of instruction		Polish
Purpose and description of the content of education		Na ćwiczeniach terenowych student poznaje zasady i metody badań terenowych realizowanych w ramach monitoringu wód podziemnych. Zdobędzie podstawową wiedzę w zakresie kartowania hydrogeologicznego i umiejętność graficznej interpretacji wyników prac terenowych. Zapozna się z metodami badań ilościowych i jakościowych wód podziemnych.
List of modules that must be completed before starting this module (if necessary)		[W2-GW-AQ-S1-011] Basics of engineering geology [W2-GW-AQ-S1-040] Basics of water management 1 [W2-GW-AQ-S1-041] Basics of water management 2 [W2-GW-AQ-S1-008] Basics of hydrobiology [W2-GW-AQ-S1-010] Basic of hydrogeology [W2-GW-AQ-S1-035] Basics of engineering and mining hydrogeology [W2-GW-AQ-S1-009] Basics of hydrology

8.	Learning outcomes of the module			
Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)	
W2-GW-AQ-S1-045 _1	Posiada wiedzę o środowisku wód podziemnych. Zna pojęcia i terminologię oraz stosowane w hydrogeologii metody badawcze.	GW-AQ1_W01 GW-AQ1_W04	4 4	
W2-GW-AQ-S1-045 _2	Zna podstawy praktycznego zastosowania metod badawczych w hydrogeologii.	GW-AQ1_U06 GW-AQ1_W01 GW-AQ1_W04 GW-AQ1_W08	4 4 4 4	
W2-GW-AQ-S1-045 _3	Posiada podstawową wiedzę i umiejętności wykonywania kartowania hydrogeologicznego.	GW-AQ1_U05 GW-AQ1_U06 GW-AQ1_U07	3 3 3	

		GW-AQ1_W01	3
		GW-AQ1_W04	3
		GW-AQ1_W08	3
W2-GW-AQ-S1-045_4	Wykazuje umiejętność krytycznej analizy zastosowania wybranych metod badawczych w hydrogeologii	GW-AQ1_U07	2
		GW-AQ1_W01	2
		GW-AQ1_W04	2
		GW-AQ1_W08	2
W2-GW-AQ-S1-045_5	Potrafi planować i organizować pracę samodzielną oraz zespołów w badaniach terenowych.		

9. Methods of conducting classes		
Code	Category	Name (description)
e06	Practical methods	Observation <i>also conducted as fieldwork; a method of watching phenomena, objects or people in a systematic/planned way in order to gain knowledge about them; perceptual separation of elements of a model action as an element of learning through imitation; a complex system of cognition based on sensory experiences</i>

10. Forms of teaching					
Code	Name	Number of hours	Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes
W2-GW-AQ_045_fs_1	field practice	30	course work	W2-GW-AQ-S1-045_1, W2-GW-AQ-S1-045_2, W2-GW-AQ-S1-045_3, W2-GW-AQ-S1-045_4, W2-GW-AQ-S1-045_5	e06

11. The student's work, apart from participation in classes, includes in particular:			
Code	Category	Name (description)	Is it part of the BUNA?
a01	Preparation for classes	Search for materials and review activities necessary for class participation <i>reviewing literature, documentation, tools and materials as well as the specifics of the syllabus and the range of activities indicated in it as required for full participation in classes</i>	No
a03	Preparation for classes	Developing practical skills <i>activities involving the repetition, refinement and consolidation of practical skills, including those developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)</i>	No
c03	Preparation for verification of learning outcomes	Implementation of an individual or group assignment necessary for course/phase/ examination completion <i>a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory phase/element of the verification of the learning outcomes assigned to the course</i>	No
d01	Consulting the results of the verification of learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes <i>reading through the academic teacher's comments, assessments and opinions on the implementation</i>	Yes

	<i>of the task aimed at checking the level of the achieved learning outcomes</i>	
--	--	--

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: <https://usosweb.us.edu.pl>.