1.	**Field of study**	**Aquamatics - Interdisciplinary Management of Water Environments**
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2023/2024 (winter term), 2024/2025 (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 hydrology**
Module code	W2-AQ-S1-009
Number of the ECTS credits	5
Language of instruction	Polish
Purpose and description of the content of education	Efekty kształcenia w zakresie hydrologii realizowane w trakcie wykładów i zajęć laboratoryjnych są utożsamiane z podstawową wiedzą pozwalającą na poprawną analizę związków przyczynowo -skutkowych w hydrologii. Szczególne znaczenie w kształceniu z zakresu hydrologii ma rozpoznawanie i prawidłowe wyjaśnianie wzajemnych relacji i powiązań wód podpowierzchniowych z wodami podziemnymi i pozostałymi komponentami środowiska. Zarówno wykłady jak i zajęcia laboratoryjne mają służyć nabyciu wiedzy, umiejętności i kompetencji społecznych utożsamianych ze znajomością tzw. warsztatu badań hydrologicznych.
List of modules that must be completed before starting this module (if necessary)	not applicable

8. Learning outcomes of the module

Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)
W2-AQ-S1-009 _1	Zna metody badawcze w hydrologii, potrafi korzystać ze źródeł informacji hydrologicznej.	AQ1_U03 AQ1_W01	4 4
W2-AQ-S1-009 _2	Rozumie pojęcia związane z wodami powierzchniowymi, rzekami, jeziorami i zbiornikami, obszarami podmokłymi, lodowcami.	AQ1_U02 AQ1_W01 AQ1_W02	4 4 4
W2-AQ-S1-009 _3	Rozumie zjawiska hydrologiczne w aspekcie lokalnym, regionalnym i globalnym.	AQ1_U03 AQ1_W01 AQ1_W02 AQ1_W04	3 3 3 3
W2-AQ-S1-009 _4	Rozumie zjawiska hydrologiczne w aspekcie lokalnym, regionalnym i globalnym.	AQ1_U03 AQ1_U04 AQ1_U08	2 2 2

		AQ1_W01 AQ1_W03 AQ1_W04	2 2 2
W2-AQ-S1-009 _5	Potrafi wykonać i interpretować podstawowe opracowania hydrologiczne.	AQ1_U02 AQ1_W03 AQ1_W05	2 2 2

9.	**Methods of conducting classes**	
Code	**Category**	**Name (description)**
a01	Lecture methods / expository methods	Formal lecture/ course-related lecture *a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided*
b07	Problem-solving methods	Activating methods: a case study *a comprehensive description of a phenomenon connected with the selected discipline; reflecting the reality, presenting the 'what', 'where' and 'how' of the phenomenon, i.e., all of its key aspects to be discussed in class; used as a reproduction, presentation, discussion or diagnosis of factors that shape the phenomenon or interact with it; an in-depth qualitative analysis and evaluation of a selected phenomenon*
c06	Demonstration methods	Demonstration-imitation *a presentation of a model way of performing specific activities accompanied by a commentary; it aims at triggering imitation activities in an individual or in a group of participants observing the activities of the person teaching the course until the right habit is formed through regular exercise; the demonstration-imitation method is combined with a physical practice of activities/behaviours*
e01	Practical methods	Laboratory exercise / experiment *[also conducted as fieldwork] a method of practical application of knowledge; implemented in three stages: the recognition of a problem induced by the task content, the formulation of the problem and the attempt to solve it accompanied by the assessment of the effects; the goal is to acquire skills, abilities and habits, and to consolidate the acquired knowledge so that it becomes operational; the laboratory method assumes greater independence of learners than carrying out an experiment*
e04	Practical methods	Project scheduling *proceeding according to the steps proposed within a specific methodology for the completion of a task; e.g., identifying project objectives, determining the result, identifying strengths, limitations, opportunities and threats (SWOT), establishing a schedule of activities, assessing resources, establishing an implementation plan; the initial diagnosis; the reassessment of assumptions; the process of preparing the practical implementation of a project*

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**
-AQ S1-009_fs_1	lecture	15	exam	W2-AQ-S1-009 _1, W2-AQ-S1-009 _2, W2-AQ-S1-009 _3, W2-AQ-S1-009 _4	a01
-AQ S1-009_fs_2	laboratory classes	30	course work	W2-AQ-S1-009 _5	b07, c06, e01, e04

11.	The student's work, apart from participation in classes, includes in particular:		
Code	**Category**	**Name (description)**	**Is it part of the BUNA?**
a02	Preparation for classes	Literature reading / analysis of source materials *reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class*	No
c03	Preparation for verification of learning outcomes	Implementation of an individual or group assignment necessary for course/phase/ examination completion *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*	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 *reading through the academic teacher's comments, assessments and opinions on the implementation of the task aimed at checking the level of the achieved learning outcomes*	Yes

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.