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 engineering geology**
Module code	W2-AQ-S1-011
Number of the ECTS credits	4
Language of instruction	Polish
Purpose and description of the content of education	Celem modułu jest zapoznanie studenta z podstawami geologii ogólnej (budowa wnętrza Ziemi, rodzaje skał, procesy endogeniczne i egzogeniczne) oraz geologii inżynierskiej, w tym z klasyfikacją gruntów, podstawowymi właściwościami gruntów, a także ze sposobami oznaczania podstawowych parametrów z wykorzystaniem stosownej aparatury i metod laboratoryjnych. Moduł obejmuje podstawy teoretyczne (definicje, klasyfikacje i właściwości gruntów), jak i praktyczne (wyznaczanie parametrów w formie obliczeń i doświadczeń laboratoryjnych).
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-S1-011 _1	Posiada podstawową wiedzę na temat geologii ogólnej.	AQ1_W01	5
W2-AQ-S1-011 _2	Posiada podstawową wiedzę na temat klasyfikacji i właściwości gruntów.	AQ1_W01	5
W2-AQ-S1-011 _3	Rozumie podstawowe zjawiska i procesy zachodzące w środowisku gruntowo-wodnym.	AQ1_W01 AQ1_W02	4 4
W2-AQ-S1-011 _4	Rozumie zjawisko oddziaływania woda-grunt.	AQ1_W01 AQ1_W02	4 4
W2-AQ-S1-011 _5	Zna i potrafi zastosować podstawowe metody służące oznaczaniu parametrów geologiczno-inżynierskich.	AQ1_U02 AQ1_W08	3 3
W2-AQ-S1-011 _6	Potrafi planować i organizować badania laboratoryjne.	AQ1_W08	2
W2-AQ-S1-011 _7	Potrafi zinterpretować wyniki oznaczeń podstawowych parametrów w geologii inżynierskiej.	AQ1_U04 AQ1_W08	3 3

W2-AQ-S1-011 _8	Zna zakres zastosowania oznaczeń parametrów geologiczno-inżynierskich w praktyce.	AQ1_U07 AQ1_W05	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*
a05	Lecture methods / expository methods	Explanation/clarification *explication involving the derivation of a predetermined theorem from other, already known ones, in the number of steps specified by the person teaching the course*
d02	Programmed learning methods	Working with a programmed textbook *working with a textbook containing instructional material covering part of or the entire curriculum of the module as well as a formula for studying the content; includes working with a subject textbook, an atlas, a catalogue, a problem book, etc.*
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*

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
2-AQS1-011_fs_1	lecture	15	exam	W2-AQ-S1-011 _1, W2-AQ-S1-011 _2, W2-AQ-S1-011 _3, W2-AQ-S1-011 _4, W2-AQ-S1-011 _5	a01, a05
2-AQS1-011_fs_2	laboratory classes	30	course work	W2-AQ-S1-011 _5, W2-AQ-S1-011 _6, W2-AQ-S1-011 _7, W2-AQ-S1-011 _8	d02, e01

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 *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*	No
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
a03	Preparation for classes	Developing practical skills *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)*	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.