

|    |                                |                                      |
|----|--------------------------------|--------------------------------------|
| 1. | Field of study                 | Environmental Hazard Engineering     |
| 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   |                                      | Geology Field Research   |
| Module code   |                                      | W2-IZ-S1-158   |
| Number of the ECTS credits  |                                      | 1  |
| Language of instruction   |                                      | Polish   |
| Purpose and description of the content of education                               |                                      | The aim of the module is to acquire the ability to conduct basic geological research in the field as well as to comprehensively learn about the geological evolution and tectonics of the Sudetes, and in particular the Kaczawa Mountains. Showing examples of different rocks; illustration of petrogenesis processes, rock transformations, learning the methodology of petrographic observations; documentation of geological exposures; geological interpretations; getting acquainted with the geological objects typical of the Kaczawa unit. |
| 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) |
| U1   | student:<br>- acquires the skills of conducting basic geological documentation: methods of performing basic measurements (including mastering the ability to conduct measurements with the use of a compass), learn to prepare sketches of geological outcrops and profiles, as well as reading and interpreting geological maps<br>- acquires the skills of observation and description of geological processes, the analysis of rock features in terms of the processes that contributed to their formation, cause-and-effect reasoning as well as proficiency in using geological vocabulary.<br>- acquires teamwork skills | U01                                |  | 3                              |
|      |  | U02                                |  | 3                              |
|      |  | U03                                |  | 1                              |
|      |  | U04                                |  | 3                              |
|      |  | U05                                |  | 1                              |
| W1   | student:<br>- acquires knowledge about the geological structure of the Sudetes, in particular the Kaczawskie Mountains.<br>- acquires basic information on forecasting natural disasters with a geological background and predicting the effects of geological events.   | U07                                |  | 2                              |
|      |  | U08                                |  | 2                              |
|      |  | W01                                |  | 4                              |
|      |  | W02                                |  | 3                              |

| 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>  |
| e08 | Practical methods | Practice-as-research<br><i>also conducted as fieldwork; an activity aimed at confronting the acquired theory with practice through its practical application; students situate themselves in the reality they observe, study and transform through the prism of the theory; the method of practical classes is dominated by the application of knowledge to solving practical tasks</i> |

| <b>10. Forms of teaching</b> |                |                 |   |                                 |                               |
|------------------------------|----------------|-----------------|---|---------------------------------|-------------------------------|
| Code                         | Name           | Number of hours | Assessment of the learning outcomes of the module | Learning outcomes of the module | Methods of conducting classes |
| W2-IZ-S1-158_fs_1            | field practice | 36              | course work                                       | U1, W1                          | e06, e08                      |

| <b>11. The student's work, apart from participation in classes, includes in particular:</b> |   |  |  |                         |
|---|---|--|--|-------------------------|
| Code  | Category  | Name (description)   |  | Is it part of the BUNA? |
| a02   | Preparation for classes   | Literature reading / analysis of source materials<br><i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i>  |  | No                      |
| a03   | Preparation for classes   | Developing practical skills<br><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>  |  | Yes                     |
| a04   | Preparation for classes   | Consulting materials complementary to those indicated in the syllabus<br><i>agreeing on materials complementary to those indicated in the syllabus, supporting the implementation of tasks resulting from or necessary for class participation</i>   |  | Yes                     |
| b01   | Consulting the curriculum and the organization of classes       | Getting acquainted with the syllabus content<br><i>reading through the syllabus and getting acquainted with its content</i>  |  | No                      |
| c02   | Preparation for verification of learning outcomes               | Studying the literature used in and the materials produced in class<br><i>exploring the studied content, inquiring, considering, assimilating, interpreting it, or organizing knowledge obtained from the literature, documentation, instructions, scenarios, etc., used in class as well as from the notes or other materials/artifacts made in class</i>   |  | No                      |
| c03   | Preparation for verification of learning outcomes               | Implementation of an individual or group assignment necessary for course/phase/<br>examination completion<br><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>  |  | Yes                     |
| d03   | Consulting the results of the verification of learning outcomes | Review of internship documentation<br><i>an analysis of the portfolio of documentation obtained during internship, including professional internship, and other practical classes and studio sessions, as well as the documentation developed in order to obtain credit for such classes; verification of the description, necessary attachments, opinions and grades before submitting the portfolio for acceptance</i> |  | No                      |

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>.