

|    |                                |                                      |
|----|--------------------------------|--------------------------------------|
| 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   |                                      | Optional module with elective courses for seminar path I  |
| Module code   |                                      | W2-IZ-S1-017  |
| Number of the ECTS credits  |                                      | 4   |
| Language of instruction   |                                      | Polish  |
| Purpose and description of the content of education                               |                                      | The module allows the student to understand the phenomena and processes causing the evolution of the natural world and their location in geological time, and points out the tools for dating natural phenomena taking place in the past. It indicates the importance of the interrelationships between them and places in geological time the key points of the evolution of the natural world. The knowledge gained will allow the student to gain an overall view of the Earth as a system undergoing change and the components of this change, not in isolation from the other natural components, but as one interpenetrating and mutually stimulating phenomenon. |
| 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) |  |
| W01  | ma wiedzę w zakresie podstawowych problemów dotyczących geozagrożeń oraz zna powiązania nauk obejmujących problematykę geozagrożeń z innymi naukami przyrodniczych                | W01                                | 5                              |  |
| W02  | in interpreting geohazard phenomena and processes, he relies on empirical foundations, fully understanding the importance of mathematical and statistical methods                 | W05                                | 5                              |  |
| W03  | has knowledge of the basic conceptual categories and terminology of geohazards and has knowledge of the development of geohazard sciences and the research methods used in them   | W01<br>W03                         | 5<br>4                         |  |
| W04  | he is able to use available sources of information on geohazards, including electronic sources, and has the ability to make correct inferences based on data from various sources | W01<br>W02                         | 3<br>5                         |  |

|    |                               |                                      |   |
|----|-------------------------------|--------------------------------------|---|
| 9. | Methods of conducting classes |                                      |   |
|    | Code                          | Category                             | Name (description)  |
|    | a02                           | Lecture methods / expository methods | Monographic lecture<br><i>an exhaustive discussion of one issue, usually related to the research interests of the person teaching the course or a thorough presentation of one selected issue</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-IZ-S1-017_fs_1     | lecture | 90              | course work                                       | W01, W02, W03, W04              | a02                           |

| 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<br><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>   | Yes                     |
| 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>  | Yes                     |
| 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> | 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>.