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| 1. | Field of study | Environmental Protection |
| 2. | Faculty | Faculty of Natural Sciences |
| 3. | Academic year of entry | 2025/2026 (winter term) |
| 4. | Level of qualifications/degree | first-cycle studies |
| 5. | Degree profile | general academic |
| 6. | Mode of study | full-time |

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| 7. | General information about the module | |
| Module name | | Bachelor seminar I |
| Module code | | 1OS_23_29 |
| Number of the ECTS credits | | 1 |
| Language of instruction | | |
| Purpose and description of the content of education | | The module aims to prepare the student to independently develop topics related to the research direction of the selected research unit or promoter based on analysing the latest literature on the subject. As part of the module, the student completes knowledge and skills related to participation in scientific discussion, extends knowledge of research problems and methods, with particular emphasis on the research profile of the selected research unit or promoter, reviews current world literature in the natural sciences and develops seminar chosen topics. They present their study as an oral presentation/poster to the seminar group. They actively participate in a scientific discussions on the issues raised by themselves and other students. |
| List of modules that must be completed before starting this module (if necessary) | | not applicable |

| 8. | Learning outcomes of the module | | | |
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| Code | Description | Learning outcomes of the programme | | Level of competenc (scale 1-5) |
| K_01 | Provides constructive criticism of their activity in the seminar and considers the instructor's comments and the needs of other class participants in their behaviour. | 1OS_K01 | 5 | |
| | | 1OS_K03 | 4 | |
| | | 1OS_K04 | 3 | |
| K_02 | Shapes and improves personal self-presentation and scientific discussion skills. | 1OS_K02 | 5 | |
| K_03 | Demonstrates the need to continuously update knowledge in the natural sciences and related sciences, including issues and research directions consistent with the research profile of the chosen unit/promoter. | 1OS_K01 | 3 | |
| | | 1OS_K03 | 3 | |
| U_01 | Presents the latest developments in the field of life sciences and systematically carries out a literature search, including English-language literature, in the research profile of the chosen unit or the supervisor. | 1OS_U02 | 4 | |
| | | 1OS_U04 | 4 | |
| | | 1OS_U06 | 5 | |
| | | 1OS_U10 | 3 | |
| | | 1OS_U12 | 4 | |
| W_01 | They have advanced knowledge of physical, chemical and biological processes occurring in nature, particularly | | | |

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| | concerning their possible use in environmental protection. They are familiar with the techniques and tools used in natural science research and the thesis standards. | 1OS_W01 | 5 |
| | | 1OS_W02 | 5 |
| | | 1OS_W04 | 4 |
| | | 1OS_W05 | 4 |
| | | 1OS_W07 | 5 |
| | | 1OS_W14 | 4 |

| 9. Methods of conducting classes | | |
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| Code | Category | Name (description) |
| b04 | Problem-solving methods | Activating method – discussion / debate <i>an exchange of views supported by substantive arguments leading to a clash of different views, a compromise or the identification of common positions; it proceeds according to previously agreed-upon rules regarding the time, manner and turn-taking as well as the principles of civil discourse; a discussion is not a competition but aims at finding the best solutions or presenting different points of view; its varieties include brainstorming, Oxford-style debate, panel discussion, decision tree, conference discussion; a debate is an orderly dispute between supporters and opponents of a viewpoint, usually specialists in the field or pre-selected representatives of a group dealing with a common problem</i> |
| b05 | Problem-solving methods | Activating method – seminar / proseminar <i>a seminar method; usually an oral presentation of a previously studied/diagnosed problem delivered on a forum; it aims at provoking a discussion concerning the results of research work; a type of conference, course or training session modelled on seminar classes</i> |
| b08 | Problem-solving methods | Activating method – peer learning <i>learning through the exchange of knowledge in a group/team/pair of students, i.e., in the so-called learning cell; a kind of mutual learning; an approach focused on student activity under the guidance of the person teaching the course; a learning situation where students with a similar level of experience learn from one another</i> |
| b09 | Problem-solving methods | Activating method – flipped classroom <i>anticipatory learning; work in class is based on previously studied material indicated by the person teaching the course; preparation outside the classroom serves the purpose of getting familiar with the issues whose knowledge is necessary for participating in the in-class discussion and the training in the related practical skills; the activity is based on the work of students under the guidance of the person teaching the course</i> |
| d01 | Programmed learning methods | Working with a computer <i>e.g., Webquest; implementation of educational tasks using electronic and digital devices, computer programs and Internet applications; the academic teacher acts as a consultant; students' work is carried out step by step according to the plan laid own by the person teaching the course and following his instructions, and proceeds towards producing the indicated results within the set deadline</i> |

| 10. Forms of teaching | | | | | |
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| Code | Name | Number of hours | Assessment of the learning outcomes of the module | Learning outcomes of the module | Methods of conducting classes |
| 01 | laboratory classes | 15 | course work | K_01, K_02, K_03, U_01, W_01 | b04, b05, b08, b09, d01 |

| 11. The student's work, apart from participation in classes, includes in particular: | | | |
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| Code | Category | Name (description) | Is it part of the BUNA? |
| a01 | Preparation for classes | Search for materials and review activities necessary for class participation | No |

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| | | <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> | |
| a02 | Preparation for classes | Literature reading / analysis of source materials <i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i> | No |
| b01 | Consulting the curriculum and the organization of classes | Getting acquainted with the syllabus content <i>reading through the syllabus and getting acquainted with its content</i> | Yes |
| b02 | Consulting the curriculum and the organization of classes | Verification / adjustment / discussion of syllabus provisions <i>consulting the content of the syllabus, possibly in the presence of the year tutor or members of the class group, and, if necessary, reassessing the provisions concerning special conditions for class participation, e.g., space and time requirements, technical and other requirements, including conditions for participation in classes outside the walls of the university, classes organized in blocks, organized online, etc.</i> | Yes |
| 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 of the task aimed at checking the level of the achieved learning outcomes</i> | Yes |
| d02 | Consulting the results of the verification of learning outcomes | Development of a corrective action plan as well as supplementary/corrective tasks <i>reviewing and selecting tasks and activities enabling the elimination of errors indicated by the academic teacher, their verification or correction resulting in completing the task with at least the minimum passing grade</i> | Yes |
| e01 | Activities complementary to the classes | Undertaking, on one's own initiative and individually, activities aimed at expanding the scope or depth of the teaching content, also beyond the walls of the University <i>a set of activities undertaken independently and on the student's own initiative, aimed at expanding the depth and scope of knowledge and skills, their revision and repetition, retention or verification, also activities carried outside the university, e.g., in a culture promoting or educational institution, a laboratory, in the open air, etc.; also self-education</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>.