

1.	Field of study	Biotechnology	
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	
7. General information about the module			
Module name		Bsc seminar I	
Module code		1BT_23_57	
Number of the ECTS credits		1	
Language of instruction			
Purpose and description of the content of education		The module aims to extend students' knowledge of specialised biotechnology-related topics and learn how to present them to a scientific audience. Based on a critical analysis of the most recent literature, the student prepares for an independent study of topics related/related to the supervisor's research. They present their study as an oral presentation/poster to the seminar group and actively participate in the scientific discussion on the topics presented by themselves and other students.	
List of modules that must be completed before starting this module (if necessary)		not applicable	

8. Learning	Learning outcomes of the module				
Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)		
01	Is familiar with the physical, chemical and biological processes occurring in nature and their molecular basis, particularly concerning their possible use in biotechnology. Knows the benefits and risks associated with the development of biotechnology.	1BT_W01	3		
		1BT_W02	3		
		1BT_W03	3		
		1BT_W06	3		
		1BT_W08	3		
02	Selects and uses the available sources of information, summarises the data obtained and, using digital skills, prepares a	1BT_K02	4		
	scientific presentation/poster on a given topic.	1BT_K03	5		
		1BT_U01	3		
		1BT_U03	3		
		1BT_U07	3		
		1BT_U09	3		
03	Gives a presentation/poster to a larger audience. Participates in scientific discussions.	1BT_K05	5		
		1BT_U08	5		



	1BT_U09	5
Understands the basic principles of ethical behaviour, including respecting the opinions and needs of others, and	1BT_K01	4
copyrights.	1BT_K04	4
	1BT_U08	4
	1BT_U09	4

Code	Category	Name (description)
b04	Problem-solving methods	Activating method – discussion / debate 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
b05	Problem-solving methods	Activating method – seminar / proseminar 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 or seminar classes
b08	Problem-solving methods	Activating method – peer learning 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
b09	Problem-solving methods	Activating method – flipped classroom 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
d01	Programmed learning methods	Working with a computer 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

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Code	Name		Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes			
01	seminar	15	course work	01, 02, 03, 04	b04, b05, b08,	b09, d01		
11. The student's	11. The student's work, apart from participation in classes, includes in particular:							
Code Category			Name	(description)		Is it part of the BUNA?		

Code	Category	Name (description)	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	Yes



		range of activities indicated in it as required for full participation in classes	
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)	Yes
a04	Preparation for classes	Consulting materials complementary to those indicated in the syllabus agreeing on materials complementary to those indicated in the syllabus, supporting the implementation of tasks resulting from or necessary for class participation	Yes
a05	Preparation for classes	Production/preparation of tools, materials or documentation necessary for class participation <i>developing</i> , preparing and assessing the usefulness of tools and materials (e.g. aids, scenarios, research tools, equipment, etc.) to be employed in class or as an aid when preparing for classes	Yes
b01	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content reading through the syllabus and getting acquainted with its content	Yes
b02	Consulting the curriculum and the organization of classes	Verification / adjustment / discussion of syllabus provisions 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.	Yes
c01	Preparation for verification of learning outcomes	Determining the stages of task implementation contributing to the verification of learning outcomes devising a task implementation strategy embracing the division of content, the range of activities, implementation time and/or the method(s) of obtaining the necessary materials and tools, etc.	Yes
c02	Preparation for verification of learning outcomes	Studying the literature used in and the materials produced in class 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	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 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
d02	Consulting the results of the verification of learning outcomes	Development of a corrective action plan as well as supplementary/corrective tasks 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	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 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	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: <u>https://usosweb.us.edu.pl</u>.