

1.	Field of study	Biotechnology
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2021/2022 (winter term), 2022/2023 (winter term)
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

Module: Bsc laboratory II

Module code: 1BT_10A

1. Number of the ECTS credits: 6

2. Learning outcomes of the module			
code	description	learning outcomes of the programme	level of competence (scale 1-5)
1BT_10_1	It has a current, good knowledge of the methodology of science in the field of cell biology, which is the subject of interest and explains the possibilities of its use in the process of creating your own thesis.	1BT_U03_P 1BT_U06_P 1BT_W02_P 1BT_W03_P 1BT_W04_P 1BT_W05_P 1BT_W08_P	5 5 5 5 5 5 5
1BT_10_2	Systematically performs literature research and obtained the source materials to prior selection, segregation and evaluation for their suitability, used to write his own thesis.	1BT_U02_P 1BT_U04_P 1BT_U05_P	5 5 5
1BT_10_3	Explains and applies the principles and rules of data collection, also in the lab (GMO lab) and demonstrates the relationship between the compliance with these rules and the quality of the results obtained and conclusions reached.	1BT_K01_P 1BT_U02_P 1BT_U06_P	5 5 5
1BT_10_4	Using word processors and databases literature (traditional and electronic) writes a brief studies, reports and surveys on a given topic related to current research of the unit - also in English.	1BT_K01_P 1BT_U02_P 1BT_U04_P 1BT_U06_P 1BT_W05_P	5 5 5 5 5

		1BT_W07_P	5
1BT_10_5	Respect authorship rights	1BT_K03_P 1BT_K04_P 1BT_U04_P 1BT_W07_P	5 5 5 5
1BT_10_6	Subjected to constructive criticism of his/her own activity during the classes and take into account assistant comments and the needs of other course participants.	1BT_K02_P 1BT_K04_P 1BT_U04_P 1BT_U06_P	5 4 5 5

3. Module description

Description	The module is a continuation of the activities carried out during the Bachelor lab I. Student still has the opportunity to become familiar with the activities of the Department of Cell Biology (according to his preferences and interests). It teaches the principles of work in the Department of Cell Biology - meets research plans, timetables and schedules unit tests and meets the rules work in the laboratory, breeding rooms and greenhouses. Practicing skills in the preparation of the workplace and the base material and hardware. Attracts source materials, analyzes them and uses them to create their own scientific text. The end result of the module is to submit for review and defense of the thesis manuscript which confirms mastery of the techniques of writing and presenting research papers in the field of natural sciences.
Prerequisites	Knowledge of the natural sciences allows for the inclusion in mainstream activities of the Department of Cell Biology. Knowledge of English sufficient to understand the literature in the field of the studied subject.

4. Assessment of the learning outcomes of the module

code	type	description	learning outcomes of the module
1BT_10_w_1	Coursework	according to the Syllabus	1BT_10_1, 1BT_10_2, 1BT_10_3, 1BT_10_4, 1BT_10_5, 1BT_10_6
1BT_10_w_2	Zaliczenie końcowe/praca licencjacka	Przedstawienie do oceny kompletnej pracy licencjackiej.	1BT_10_1, 1BT_10_2, 1BT_10_3, 1BT_10_4, 1BT_10_5, 1BT_10_6

5. Forms of teaching

code	form of teaching			required hours of student's own work		assessment of the learning outcomes of the module
	type	description (including teaching methods)	number of hours	description	number of hours	
1BT_10_fs_1	laboratory classes	- continuation of education in the work of professional literature source; - continuation of the study in the methodology of laboratory work; - the systematic collection and processing of	60	- systematic replenishment of collections of literature; - studying the topic based on the latest professional literature; - preparation of documentation of the work	60	1BT_10_w_1, 1BT_10_w_2

		source materials; - preparation of the manuscript of the BSc thesis;		done during the laboratory; - preparation of the manuscript of the BSc thesis;		
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