

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: Biotechnology in practice

Module code: 1BT_35A

1. Number of the ECTS credits: 2

2. Learning outcomes of the module			
code	description	learning outcomes of the programme	level of competence (scale 1-5)
1BT_35_1	Student mentions of examples and describes usage of technical and technological biotechnological aspects	1BT_W09_P	5
1BT_35_2	Student knows the basic of project and making modification of industrial processes	1BT_K03_P 1BT_W09_P	4 5
1BT_35_3	Students is able to isolation and characterization of biological material	1BT_U03_P 1BT_U04_P	4 4
1BT_35_4	Student determines theoretical and practical conditions of biotechnological processes usage	1BT_U02_P	4
1BT_35_5	Wykazuje umiejętność pracy w zespole	1BT_U02_P 1BT_U04_P	4 4
1BT_35_6	Wykazuje potrzebę stałego aktualizowania wiedzy dotyczącej procesów biotechnologicznych oraz przeprowadza obiektywną autoocenę własnej pracy	1BT_U06_P 1BT_W01_P	5 4

3. Module description	
Description	The course focuses on application of biotechnological processes used in the industry. The module shows biotechnological methods in environment protection, medicine, cosmetology and food industry. The course focuses on usage modern technology.
Prerequisites	Basic knowledge of chemistry, biochemistry, genetic and microbiology.

4. Assessment of the learning outcomes of the module			
code	type	description	learning outcomes of the module
2BT_26_w1	Coursework	according to the Syllabus	1BT_35_1, 1BT_35_2, 1BT_35_3, 1BT_35_4, 1BT_35_5, 1BT_35_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_35_fs_1	laboratory classes	Excursions to selected industrial company used bioprocesses Consultation: Individual work with the students in order to prepare a report from the laboratory classes.	30	Theoretical preparation to active participation and discussion during industrial company visiting using recommended literature.	20	2BT_26_w1