

1.	Field of study	Biotechnology
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2020/2021 (winter term)
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

Module: Hormonal regulation of plant growth and development

Module code: 1BT_38A

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_38_1	Defines, classifies and describes the basic terms used in plant growth and development	1BT_W02_P	5	
1BT_38_2	Describes the structure of plant growth regulators	1BT_W03_P	5	
1BT_38_3	Explains the mechanism of action of phytohormones	1BT_W04_P 1BT_W05_P	5 4	
1BT_38_4	Describes and explains the phenomena occurring during the growth and development of plants.	1BT_K01_P 1BT_W02_P 1BT_W03_P 1BT_W04_P	4 5 5 4	
1BT_38_5	Performs simple experiments, describes the effects of the experiment, analyzes the results, draws conclusions and presents them in the form of a report	1BT_K02_P 1BT_U01_P 1BT_U02_P 1BT_U04_P	4 5 5 5	

3. Module description	odule description			
	The aim of the module is to provide the knowledge of structure and mechanism of action of plant growth regulators. IAA polar transport and role of phytohormones in response to abiotic stress, acid growth theory, effect of plant growth regulators on stomata functioning.			
Prerequisites	Basic knowledge of botany and plant physiology			



4. Assessment	ssment of the learning outcomes of the module					
code	type	description	learning outcomes of the module			
1BT_38_w_1	Coursework		1BT_38_1, 1BT_38_2, 1BT_38_3, 1BT_38_4, 1BT_38_5			

5. Forms of teaching							
	form of teaching		required hours of student's own work		assessment of the		
code	type	description (including teaching methods)	number of hours	description	number of hours	learning outcomes of the module	
1BT_38_fs_1	lecture	Lecture with the use multimedia devices		Working with manual, mastery of the material from the lecture	10	1BT_38_w_1	
1BT_38_fs_2		Samodzielna praca w laboratorium, wykonywanie doświadczeń na podstawie instrukcji, analiza uzyskanych wyników.		Przygotowanie sprawozdań z ćwiczeń. Przygotowanie do ćwiczeń na podstawie literatury.	10	1BT_38_w_1	