

1.	Nazwa kierunku	biologia
2.	Wydział	Wydział Nauk Przyrodniczych
3.	Cykl rozpoczęcia	2023/2024 (semestr zimowy), 2024/2025 (semestr zimowy)
4.	Poziom kształcenia	studia drugiego stopnia
5.	Profil kształcenia	ogólnoakademicki
6.	Forma prowadzenia studiów	stacjonarna

Moduł kształcenia: Projekt naukowy

Kod modułu: 2BL_21a

1. Liczba punktów ECTS: 15

2. Zakładane efekty uczenia się modułu			
kod	opis	efekty uczenia się kierunku	stopień realizacji (skala 1-5)
2BL_21a_01	Has current, basic knowledge in the field of methodology of science in the field of interest and explains the possibilities of using it in the process of creating a project plan	2BL_U01_P 2BL_W04_P 2BL_W07_P	5 5 5
2BL_21a_02	Under the tutor's control, he plans and performs measurements, determinations and analyzes using equipment laboratory and / or field, and also trains the ability to create conclusions and conclusions based on the results obtained	2BL_U03_P 2BL_U04_P	4 4
2BL_21a_03	With the help of the Tutor, he develops statistical and graphic results obtained during classes laboratory and / or field work.	2BL_U03_P 2BL_W01_P	5 5
2BL_21a_04	Explains the need to comply with the principles of cooperation as well as timetables and work plans in the laboratory; interprets assumptions Good Laboratory Practice, OHS and pre-medical first aid, and is implemented to be responsible for the entrusted material and hardware base while preparing for the project.	2BL_K02_P 2BL_K04_P	5 5

3. Opis modułu

Opis	<p>The module is dedicated to foreign students who are interested in conducting a semester scientific project, under the care and professional support of an experienced academic teacher.</p> <p>Course emphasis on researching information in the web site, laboratory methodology, equipment instrumentation. It consists of specific experiment and demonstrations. It will stress the importance of the scientific method and learn how to implement an independent research project.</p> <p>Laboratory practice will be dedicated to the and will be also connected with procedures of preparation specific solutions, performing of specific measures.</p> <p>The programme will be profiled referring to different subjects provided within biology area, which is offered by scientists and educators of Institute of Biology, Biotechnology and Environmental Protection.</p>
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Wymagania wstępne	no one
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4. Sposoby weryfikacji efektów uczenia się modułu			
kod	nazwa (typ)	opis	efekty uczenia się modułu
2BL_21a_w_01	credit for a grade	Credit for the grade according to the rules specified in the syllabus.	2BL_21a_01, 2BL_21a_02, 2BL_21a_03, 2BL_21a_04

5. Rodzaje prowadzonych zajęć						
kod	rodzaj prowadzonych zajęć			praca własna studenta		sposoby weryfikacji efektów uczenia się
	nazwa	opis (z uwzględnieniem metod dydaktycznych)	liczba godzin	opis	liczba godzin	
2BL_21a_sf_01	laboratorium	conducting experiments, observations and markings necessary to implement the project assumptions - systematic collection and processing of data (own and obtained from other sources) - statistical and graphic elaboration of own results - verification of research hypotheses - field work - obtaining material, preparing photographic documentation and notes, making measurements (optional) - farming / cultivation (optional) - preparation of measurement reports, reports and reports.	180	- literary queries to constantly supplement literature collections - systematic study of the topic based on the latest professional literature - supplementing calculations, protocols, reports and laboratory reports - supplementation of field / breeding documentation (optional)	150	2BL_21a_w_01