

Subject card

Subject name and code	Specialization laboratory, PG_00154600						
Field of study	Genetics and Experimental Biology						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		5.0		
Learning profile	academic		Assessment form				
Conducting unit	Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Marcin Górniak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	60.0	0.0	0.0	60
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	60		13.0		52.0	125
Subject objectives	Preparing the student to independently complete a diploma thesis using methods, research tools, and procedures applied in the creation of scientific publications/presentations within a given field of knowledge.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GBEL3_W05] the principles of research planning based on achievements in biological sciences and related fields, the potential application of their results in practice, the principles of operation of equipment and apparatus used in molecular genetics research, and the principle of interpreting biological phenomena and processes based on empirical data in research and practical activities, with consideration for sustainable use of biological diversity.	The student understands the principles of planning research based on achievements in biological sciences and related fields, the practical application of research results, the operation of equipment and apparatus used in molecular genetics, and the interpretation of biological phenomena and processes based on empirical data in both research and practical activities, with consideration for the sustainable use of biological diversity.	[SW2] presentation/project/paper/report
	[GBEL3_U01] Independently perform practical tasks in the field of biological sciences and related disciplines, formulate research problems, analyze their results, and draw conclusions.	The student is capable of independently performing simple practical tasks in the field of biological and related sciences, formulating research problems, analyzing their results, and drawing conclusions.	[SU2] presentation/project/paper/report [SU8] observation of student's independent or team work
	[GBEL3_U08] Independently study literature and plan one's own career path.	The student is able to independently study literature and plan their own career path.	[SU2] presentation/project/paper/report [SU8] observation of student's independent or team work
	[GBEL3_K01] The utilization of theoretical knowledge in laboratory and production practice.	The student is ready to apply theoretical knowledge in laboratory and production practice.	[SK8] observation of student's independent or team work
	[GBEL3_K02] Critical assessment of one's own knowledge and methods in the field of molecular biology and related disciplines, as well as the commercialization of research.	The student is prepared to critically evaluate their own knowledge and methods in molecular biology and related fields, as well as the commercialization of research.	[SK8] observation of student's independent or team work
	[GBEL3_W07] the principles of presenting research results and acquiring funding for research and its commercialization.	The student is familiar with the basic principles of presenting research results, securing funding for research, and commercializing findings. They are capable of independently proposing a simple research or research-and-development project.	[SW2] presentation/project/paper/report
Subject contents	Practical application of research methods used in genetics and related fields. Planning and performing research tasks under the guidance of a supervisor. Techniques for developing scientific materials. Principles of planning and conducting scientific experiments. Rules for using available scientific resources.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	The basis for passing is the completion of experimental tasks planned by the supervisor in a field specific to the department chosen by the student.	51.0%	100.0%
Recommended reading	Basic literature	Weiner J. 2006. Techniki pisania i prezentowania przyrodniczych prac naukowych. Przewodnik praktyczny. PWN, Warszawa. Wojciechowski T., Doktor G. 1999. Jak pisać prace dyplomowe licencjackie i magisterskie: poradnik. WSZiM, Warszawa.	
	Supplementary literature	Current international scientific journals recommended by the supervisor.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	None		
Work placement	Not applicable		

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