University of Gdańsk

Subject card

Subject name and code	Specialization laboratory II, PG_00203407						
Field of study	Medical Biology						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2026/2027			
Education level	Master's studies		Subject group	Obligatory subject group in the field of study Optional subject group Specialty subject group Subject group related to scientific research in the field of study			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	1		Language of instruction	Polish			
Semester of study	2		ECTS credits	12.0			
Learning profile	academic		Assessment form	credit			
Conducting unit	Department of Medical Biology and Genetics -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Anna Herman-Antosiewicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	120.0	0.0	0.0	120
	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	120		60.0	120.0	300	
Subject objectives	Acquiring the ability to use research techniques in scientific work; planning and conducting experiments in the laboratory or collecting materials in the field, recording and interpreting data; describing the goals and assumptions of the research project, analyzing the results of the conducted experiments and their discussions.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLMEDMU2_W06] knows ethical and legal considerations related to scientific, teaching and implementation activities	Knows the basic ethical and legal conditions related to scientific, teaching and implementation activities	[SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[BIOLMEDMU2_W05] knows knows in-depth understanding the principles of practice based on scientific arguments	Knows the principles of practice based on scientific arguments	[SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[BIOLMEDMU2_W04] knows in-depth understanding the principles of planning research based on the achievements of biological and medical sciences, the principles of operation of equipment and apparatus used in medical biology research, and the principle of interpreting biological phenomena and processes based on empirical data in research work and practical activities	Knows the principles of research planning based on the achievements of biological and medical sciences, the principles of operation of equipment and apparatus used in medical biology research, and the principles of interpreting phenomena and processes of biological sciences based on empirical data in research and practical activities	[SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[BIOLMEDMU2_U07] is able to show initiative and lead teamwork and cooperate in the planning and implementation of research tasks	Can show initiative and cooperate in planning and implementing research tasks in a team	[SU8] observation of student's independent or team work
[BIOLMEDMU2_U06] knows and applies English-language specialized vocabulary of biological and medical sciences in daily professional/scientific activities	Knows and uses English-language specialist vocabulary in the field of biological and medical sciences in everyday professional/scientific activities	[SU2] presentation/project/paper/ report [SU5] implementation of a problem task
[BIOLMEDMU2_U04] is able to identify errors and omissions in practice	Can identify errors and omissions in practice	[SU2] presentation/project/paper/ report [SU8] observation of student's independent or team work
[BIOLMEDMU2_K04] takes care of his own safety, the safety of his surroundings and co-workers of certain tasks	Cares about his/her own, surroundings and coworkers' safety	[SK8] observation of student's independent or team work
[BIOLMEDMU2_U03] is able to formulate and solve problems on the basis of the known laws and methods, including - using computer tools and statistical methods	Can formulate and solve problems based on known laws and methods, including IT tools and statistical methods	[SU2] presentation/project/paper/ report [SU5] implementation of a problem task
[BIOLMEDMU2_U02] is able to plan and conduct experiments and measurements based on advanced research techniques and tools, is able to interpret the obtained results and draw conclusions	Can plan and carry out experiments and measurements based on advanced techniques and research tools, can interpret the obtained results and draw conclusions	[SU2] presentation/project/paper/ report [SU6] demonstration of practical skills
[BIOLMEDMU2_U08] can independently plan and implement his own lifelong learning and guide others in doing so	can plan and implement his lifelong learning and guide others in this area	[SU8] observation of student's independent or team work
[BIOLMEDMU2_K02] is ready to recognize the importance of knowledge in solving cognitive and practical problems and to seek expert advice when having difficulty solving a problem on his own	Recognizes the importance of knowledge in solving cognitive and practical problems and seeks the opinion of experts in case of difficulties in solving the problem independently	[SK2] presentation/project/paper/ report [SK5] implementation of a problem task

Subject contents

Scientific and research issues in the field of medical biology discussed and implemented in the organizational units of the Faculty of Biology. Techniques i methods used in scientific research.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
conducting research and presenting its results	51.0%	100.0%

Recommended reading

Basic literature	The literature is selected individually depending on the topic of the work and takes into account the scientific achievements of the supervisor and the team with which the student cooperates.
Supplementary literature	The literature is selected individually depending on the topic of the work and takes into account the scientific achievements of the supervisor and the team with which the student cooperates.
eResources addresses	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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