

Subject card

Subject name and code	Medical parasitology, PG_00146901						
Field of study	Genetics and Experimental Biology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
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	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Parasitology and General Zoology -> Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Joanna Dzido				
	Teachers		dr Joanna Dzido prof. dr hab. Joanna Izdebska dr hab. Leszek Rolbiecki				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		4.0		16.0	50
Subject objectives	1. To get acquainted with the parasites of greatest importance to humans. 2. To present the routes of infection and to familiarize oneself with the epidemiology of parasitosis and the principles of prevention.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GBEL3_W01] Understanding the structure and properties of basic types of biological macromolecules, molecular mechanisms of metabolic pathways and genetic information flow, as well as sources of genetic variability in organisms and mechanisms of evolution; explaining the rules of inheritance, elucidating differences in the structure and functioning of prokaryotic and eukaryotic cells, and understanding the structure and functional relationships at the cellular and tissue levels.	The graduate describes the structure and characteristics of parasitic organisms at a cellular, tissue, organ and organismal levels, describes the basic evolutionary concepts and mechanisms, and explains the functional relationships in the parasite–host system.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report
	[GBEL3_U03] Proficient in using research equipment and tools, while following the correct sequence of procedures, to conduct basic physical, biological, or chemical observations and measurements in laboratory work within the field of biological sciences.	The graduate uses basic research apparatus and tools and, following the correct sequence of operations, carries out simple observations and measurements used in parasitological diagnosis.	[SU6] demonstration of practical skills [SU8] observation of student's independent or team work
	[GBEL3_U04] Capable of reading scientific texts in English and Polish with comprehension, synthesizing the knowledge contained within them, preparing well-documented studies on biological issues, as well as those related to research commercialization.	The graduate reads scientific texts with comprehension and synthesises data in the field of medical parasitology.	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written
	[GBEL3_K07] Lifelong learning and updating knowledge in the field of molecular genetics and other disciplines.	The graduate understands the need for lifelong learning and updating knowledge in the field of medical parasitology.	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written
	[GBEL3_U09] Plan and pursue one's education autonomously and in a focused manner.	The graduate learns independently, in a structured manner.	[SU4] test/exam - oral or written [SU6] demonstration of practical skills
	[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 graduate is prepared to critically evaluate methods in medical parasitology and related fields.	[SK1] oral statement/conversation/discussion
	[GBEL3_W03] The molecular mechanisms of genetic information transmission and gene expression, as well as the molecular and genetic basis of human physiology and diseases, including infectious diseases.	The graduate understands the mechanisms of genetic information transfer, cell and organism development, and the genetic basis of human physiology and disease, including parasitic diseases and vector-borne infectious diseases.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report
Subject contents	Structure, adaptations, and taxonomic overview of parasites associated with humans. Methods used in parasitological diagnosis and principles of parasite identification in different groups.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	colloquium	51.0%	100.0%
	attendance	85.0%	0.0%
Recommended reading	Basic literature	- Buczek A. 2005. Atlas pasożytów człowieka. Koliber, Lublin. - Deryło A. red. 2000. Skrypt do ćwiczeń i seminariów z parazytologii lekarskiej. Cz. 1 i 2. ŚAM, Katowice. - Deryło A. [red.] 2011. Parazytologia i akaroentomologia medyczna. PWN, Warszawa. - Dziubek Z. 2003. Choroby zakaźne i pasożytnicze. Wyd. lekarskie PZWL, Warszawa - Garcia L.S. 2007. Diagnostic medical parasitology. ASP Press, Washington. - Golvan Y.J. 2000. Atlas parazytologii. Volumed, Wrocław. - Kadłubowski R. 1999. Zarys parazytologii lekarskiej. PZWL, Warszawa. - Lonc E., Złotorzycka J. 1995. Ćwiczenia z parazytologii dla studentów biologii. UW, Wrocław - Niewiadomska K., Pojmańska T., Machnicka B., Czubaj A. 2001. Zarys parazytologii ogólnej. PWN, Warszawa.	

	Supplementary literature	1. Błaszak C. [red.] 2009. Zoologia, t.1. Bezkręgowce. PWN, Warszawa. 2. Błaszak C. [red.] 2011, 2012. Zoologia, t.2.cz. 1, 2. Stawonogi. PWN, Warszawa. 3. Bogitsh B.J, Carter C.E., Oelmann T.N. 2005. Human parasitology. Academic Press, Saint Louis. 4. Combes C. 1999. Ekologia i ewolucja pasożytnictwa. PWN, Warszawa. 5. Izdebska J.N. 2005. Roztocze skórne człowieka i zwierząt domowych. (W:) Alergia na roztocze. B. Majkowska-Wojciechowska [red.], Mediton, Łódź: 95-105.6. Izdebska J.N. 2014. Wszy? Poznaj i pokonaj problem PWN, Warszawa. 7. Piotrowski F. 1990. Zarys entomologii parazytologicznej. PWN, Warszawa. 8. Pojmańska T. [red.] 2016. Leksykon parazytologiczny. PTP, Warszawa 9. Rolbiecki L. 2002. Szybka metoda wykonywania semipermanentnych glicerożelatynowych preparatów z pasożytów. Wiadomości Parazytologiczne 48: 87-88. 10. Rolbiecki L. 2007. Zastosowanie kwasu octowego i alkoholu benzyłowego w preparatyce parazytologicznej wady i zalety. Wiadomości Parazytologiczne 53: 347-349
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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