



Syllabus for academic year: 2021/2022 Training cycle: 2021/2022-2026/2027													
Description of the course													
Course	MOLECULAR BASIS OF PARASITOLOGICAL DIAGNOSTICS							Group of detailed education results					
								Group code	Group name				
								B	Scientific basics of medicine				
								C	Preclinical sciences				
								E	Non-interventional clinical sciences				
Faculty	Faculty of Medicine												
Major	medicine												
Level of studies	<input checked="" type="checkbox"/> uniform magister studies <input type="checkbox"/> 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies												
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time												
Year of studies	1 st						Semester:		<input type="checkbox"/> winter <input checked="" type="checkbox"/> summer				
Type of course	<input type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input checked="" type="checkbox"/> free choice / optional												
Language of study	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English												
Number of hours													
Form of education													
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
Winter semester:													
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(Dep. in charge of the course)													
Direct (contact) education ¹													
Distance learning ²													
Summer semester: 30													
Department of Biology and Medical Parasitology (Dep. in charge of the course)													

¹ Education conducted with direct participation of university teachers or other academics

² Education with applied methods and techniques for distance learning



C.U.9	makes preparations and recognize pathogens under the microscope	oral answer, preparing of specimens,	LC
* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning			
Student's amount of work (balance of ECTS points):			
Student's workload (class participation, activity, preparation, etc.)		Student Workload	
1. Number of hours of direct contact:		30	
2. Number of hours of distance learning:		-	
3. Number of hours of student's own work:		9	
4. Number of hours of directed self-study		n/a	
Total student's workload		39	
ECTS points for course		1.5	
Content of classes: (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)			
Lectures			
Seminars			
Classes (10 x 3 h)			
Class 1. Organization of classes. Health and safety rules. Internal regulations. Theoretical introduction to classes, principles of collecting, transporting and storing of biological material for molecular research;			
Class 2. DNA isolation – theoretical introduction and principle of the method;			
Class 3. DNA isolation - performing of DNA isolation, part I;			
Class 4. DNA isolation - performing of DNA isolation, part II;			
Class 5. PCR method - theoretical introduction and principle of the method;			
Class 6. PCR - performing of PCR;			
Class 7. PCR - performing of PCR (nested-PCR);			
Class 8. Electrophoresis - theoretical basics and performing, visualization and interpretation of results;			
Class 9. Methods of primers designing - theoretical basics and performing;			
Class 10. Analysis of examples of cases of parasitic infections, proposing of diagnostic procedures;			
Other			
Basic literature (list according to importance, no more than 3 items)			
1. Bogitsh BJ, Cheng TC, Oeltmann T.: Human parasitology. 4 th edition, Academic Press, Elsevier, 2013			
Additional literature and other materials (no more than 3 items)			
Preliminary conditions: (minimum requirements to be met by the student before starting the course)			
Knowledge in the field of parasitology, molecular basis of genetics gained in the first year of studies under the subject "molecular biology".			
Conditions to receive credit for the course: (specify the form and conditions of receiving credit for classes included in the course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)			
Attention! Attendance cannot be a condition for passing the course			
The condition of passing the classes is the presence at the classes , independent design and conduct of diagnostic procedures in case of suspected parasitic infection (molecular and microscopic methods); correct interpretation of the results; conduct interview with patients and propose prophylaxis of parasitic infections; Credits and exams take place in direct contact with an academic teacher or using electronic means of communication.			



Grade:	Criteria for courses ending with a grade ³
Very Good (5.0)	presence on classes, independent design and conduct of diagnostic procedures, performing of DNA isolation, nested-PCR, electrophoresis, independent interpretation of the results; conduct interview with patients and propose prophylaxis of parasitic infections;
Good Above (4.5)	presence on classes, independent design and conduct of diagnostic procedures, performing of DNA isolation, nested-PCR, electrophoresis, independent interpretation of the results;
Good (4.0)	presence on classes, independent performing of DNA isolation, nested-PCR, electrophoresis, independent interpretation of the results;
Satisfactory Plus (3.5)	presence on classes, independent performing of DNA isolation, nested-PCR, electrophoresis and independent interpretation of the results;
Satisfactory (3.0)	presence on classes; independent performing of DNA isolation, performing electrophoresis with teacher's help
	Criteria for courses ending with a credit³
Credit	

Grade:	Criteria for exam ³
Very Good (5.0)	
Good Above (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	

Department in charge of the course:	Department of Biology and Medical Parasitology
Department address:	Mikulicza-Radeckiego 9, 50-345 Wrocław
Telephone:	71 784 15 12 (secretariat)
E-Mail:	malgorzata.pekalska-cisek@umed.wroc.pl

Person in charge for the course:	Dr hab. Marta Kicia
Telephone:	71 784 15 22
E-Mail:	marta.kicia@umed.wroc.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Marta Kicia	dr hab., prof. UM	medical sciences	academic teacher	LC
Magdalena Szydłowicz	dr	medical sciences	academic teacher	LC
Przemysław Leszczyński	mgr	medical sciences	academic teacher	LC

Date of Syllabus development

Syllabus developed by

³ The verification must cover all education results, which are realized in all form of classes within the course



29.06.2021

Dorota Tichaczek-Goska

Signature of Head(s) of teaching unit(s)

Dean's signature

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Wrocław Medical University
Faculty of Medicine
Vice-Dean for Postgraduate Studies
prof. Beata Kubacka-Czanska, PhD

