DISCIPLINE SHEET

ACADEMIC YEAR

2022-2023

1. DATA ABOUT THE STUDY PROGRAM

1.1 Institution of higher education	UNIVERSITY OF MEDICINE AND PHARMACY OF CRAIOVA
1.2 Faculty	MEDICINE
1.3 Department	2
1.4 Study Domain	HEALTH
1.5 Study cycle	LICENCE
1.6 Study program/ Qualification	MEDICINE

2. DATA ABOUT THE DISCIPLINE

2.1 DISCIPLINE N.	AME		PAI	RASI	TOLOGY	
2.2. Discipline code	iscipline code MED3109			D310	9	
2.3 The holder of course activities Bălășoiu Maria, Ungureanu Anca, Cristea Oana, Zlatian Ovidiu Mirce Alice			Maria, Ungureanu Anca, Cristea Oana, Zlatian Ovidiu Mircea, Ghe	nea		
2.4 The holder of seminar activities Bălăşoiu Maria, Ungureanu Anca Marilena, Cristea Oana, Zlatian Ovidi Ghenea Alice, Boldeanu Lidia, Mititelu Răzvan				ircea		
			Course: Profesor/Conferentiary/Lecturer/Lecturer/Lecturer Seminar activities: Profesor/Conferentiary/Lecturer/Lecturer/Lecturer/Assistent/ Assistent			
2.6. Employment (base norm/associate)			Base norm			
2.7. Year of study III 2.8. Semester		r	I	2.9. Course type (content) 2.10. Regime of discipline (compulsoriness)		

3. THE ESTIMATED TOTAL TIME (teaching hours per semester)

3.1 Number of hours per week:	2	3.2 from which: course	1	3.3 seminary/laboratory	1		
3.4 Total hours in curriculum:	3.4 Total hours in curriculum: 28 3.5 from which: course 14 3.6 seminary/laboratory						
Time found distribution (hours)							
Study from manual, course support, bibliography, and notes							
Additional documentation in the library, specialized electronic platforms and, on the field							
Training seminars / labs, homework, reports, portfolios, and essays							
Tutoring							
Examinations							
Other activities counselling, student scientific programs							

3.7 Total hours of individual study	22
3.9 Total hours per semester	50
3.10 Number of credits)	2

4. PREREQUISITES (where appropriate)

"TIESTED ("Intro appropriate")								
4.1 curriculum	Students must have solid knowledge of anatomy, biochemistry, cell and molecular biology.							
4.2 competency								

5. CONDITIONS (where appropriate)

5.1. of curse deployment	Lecturer room/online environment
5.2. of seminary/ lab	Laboratory room / online environment
deployment	

6. SPECIFIC COMPETENCES ACCRUED

PROFFESSIONAL

- C1. Identify parasitic agents involved in infectious diseases and establish parasitological diagnosis based on laboratory investigations.
- **C2.** Correct assessment of the risk of transmission of parasites and the occurrence of an individual / collective disease, followed by the choice and application of appropriate prophylaxis measures.
- **C3.** The correct choice of antiparasitic chemotherapeutics used in the treatment of infectious diseases with parasitic etiology. Approaching the health / disease problems from the perspective of the particularities of the community, in direct relation with the social, economic and / or cultural conditions proper to that community.
- C4. Initiation and development of a scientific and / or formative research activity in the field of parasitology.

TRANSVERSAL COMPETENCE

CT1. Autonomy and responsibility

- the acquisition of moral reference points, the formation of professional and civic attitudes, that will allow
 to the students to be fair, honest, helpful, understanding, unconflictuals, to cooperate and to be comprehensive in the face of suffering, to be available to help people, and to be interested in community development:
- to know, to respect and to contribute to the development of moral values and professional ethics;
- to learn how to recognize the problems when they arise, and provide solutions for solving them.

CT2. Social interaction

- to recognize and to have respect for diversity and multiculturalism;
- to have or to learn how to develop teamwork skills;
- to communicate orally and in writing the manner of work requirements, the obtained results, to consult
 with the team;
- to engage themselves in voluntary activities, to know the essential problems of the community.

CT3. Personal and professional development

- to have opening to lifelong learning,
- to be aware for self-study as a basis of personal autonomy and professional development;
- to derive the optimum and creative potential in their own collective activities;
- to know how to use information and communication technologies.

7. DISCIPLINE OBJECTIVES (based on the grid of specific competences acquired)

	ised on the grid of specific competences acquired)						
7.1 The general objective of the	- Training students in the knowledge of the etiology and pathogenetic mechanisms of						
discipline	human diseases with infectious etiology, which will be studied in the disciplines of						
	infectious diseases, internal medicine, surgery, obstetrics-gynecology, pediatrics						
	dermato-venereology.						
	- Forming a medical thinking of students to create the premises for understanding oth						
	preclinical and clinical disciplines						
	- Study of the main pathogenic genera and parasitic species, involved in human						
	medical and surgical pathology.						
	- Knowledge of the normal and pathological microbiota of man.						
	- Knowledge of methods for preventing, treating and combating human parasitic						
	infections						
7.2 The specific objectives of the	At the end of the study program, based on the curriculum adapted to European quality						
discipline	standards, through the teaching and assessment methods used, students must have the						
	following cognitive skills and practical skills:						
	COGNITIVE SKILLS						
	- to describe the morphology and biological cycle of parasites;						
	- to know the mechanisms of the infectious process related to the pathogenicity of the						
	parasites and to the defense mechanisms of the organism;						
	- to be able to distinguish pathogenic parasitic agents from conditionally pathogenic						
	and non-pathogenic ones from all bacteria / fungi;						
	- to know the structure and the mode of action of the antiparasitic chemotherapies on						
	the parasites;						
	- to know the non-specific and specific means of defense of the human body against						
	parasitic agents;						
	- to have notions about active and passive immunoprophylaxis of parasitic infections.						
	PRACTICAL SKILLS						
	- to know the methods used in the laboratory diagnosis of infectious diseases						
	(parasitological diagnosis). Learning the principles of sampling, transport and						
	processing of samples for laboratory examination.						
	- to know the principles of cultivation and identification of microorganisms.						
	- to be able to read and interpret the microbiological analysis bulletin with the clinical						
	significance of a possible pathogen.						
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8. CONTENTS

8.1 COURSES (CONTENT UNITS)					
1. Define the notions of parasitology, parasite and host. Reciprocal relationships between the parasite (the influence of the parasite life on the parasite, the parasite action on the host, the factors that cause the parasite to enter the host, the spatial and temporal relationships) and the host (cell reactions, tissue reactions, hypereosinophilia, immunenonspecific and specific reactions). Classification of parasites	2				
2. Morphology, biological cycle, pathogenic clinical manifestations, laboratory and differential diagnosis, treatment, epidemiology and prophylaxis in diseases with: Amoeba: Entamoeba histolytica, Entamoeba coli, Naegleria fowleri, Acanthamoeba sp., Blastocystis hominis. Cavitary flagelates: Giardia intestinalis, Trichomonas vaginalis, Trichomonas hominis	2				

3. Blood and tissues flagelates: Leishmania donovani. Sporozoa: Plasmodium sp., Toxoplasma gondii, Isospora sp., Cryptosporidium sp. Ciliates: Balantidium coli	2
4. Trematoda: Fasciola hepatica, Dicrocelium dendriticum, Opistorchis felineus. Cestoda (I): Taenia solium, Taenia saginata	2
5. Cestoda (II): Echinococcus granulosus, Echinococcus multilocularis, Diphyllbotrium latum, Hymenolepis nana, Hymenolepis diminuta, Dipylidium caninum	2
6. Nematoda (I): Ascaris lumbricoides, Enterobius vermicularis, Trichuris trichiura, Ancylostoma duodenale, Necator americanus, Strongyloides stercoralis	2
7. Nematoda (II): Larva migrans visceralis, Larva migrans cutanata, Trichinella spiralis. Ectoparazites, intermediate hosts and vectors	2
REFERENCES 1. Maria Bălășoiu, Ovidiu Zlatian, Oana Cristea, Andrei Theodor Bălășoiu – "Medical Parasitology", Editura Medicală. Universitară, Craiova, 2020	
8.2 Practical laboratory (topics / themes)	14 hours
1. Laboratory diagnosis of parasitosis produced by cavitary protozoa: Entamoeba histolytica, Entamoeba coli, Giardia intestinalis, Trichomonas urogenitalis	2
2. Laboratory diagnosis of parasitosis produced by blood and tissue protozoa: Leishmania donovani, Toxoplasma gondii, Cryptosporidium sp.	2
3. Laboratory diagnosis of parasitosis produced by Sporozoa: Plasmodium sp. şi Trematode: Fasciola hepatica, Dicrocelium dendriticum.	2
4. Laboratory diagnosis of parasitosis produced by Cestoda (Taenia solium, Taenia saginata, Echinococcus granulosus, Echinococcus multilocularis, Diphyllobotrium latum, Hymenolepis nana, Hyminolepis diminuta, Dipylidium caninum).	2
5. Laboratory diagnosis of parasitosis produced by Nematoda .(Ascaris lumbricoides, Enterobius vermicularis, Trichuris trichiura, Ancylostoma duodenale, Strongyloides stercoralis, Trichinella spiralis).	2
6. Parasitological exam of uro-genital secretions; importance in medical practice.	2
7. Stool exam for parasites. Review. Recovery.	2
REFERENCES 1. Maria Bălășoiu, Ovidiu Zlatian, Oana Cristea, Andrei Theodor Bălășoiu – "Medical Parasitology", Editura Medicală. Universitară, Craiova, 2020	

9. CORROBORATING THE DISCIPLINE CONTENT WITH THE EXPECTATIONS OF EPISTEMIC COMMUNITY REPRESENTATIVES, PROFESSIONAL ASSOCIATIONS AND EMPLOYEE REPRESENTATIVES RELATING TO THIS PROGRAM

Microbiology is a fundamental discipline required for a student to become a doctor. Knowledge, practical skills and attitudes learned in this discipline provide the basis for performing the medical act of etiologic diagnosis of infectious diseases based on objective clinical examination and laboratory investigations.

Theory and practical knowledge enables understanding of disease pathogenesis caused by bacterial, viral, parasitic and fungal agents. The results of laboratory investigations specific to etiology help in monitoring the disease progression and therapeutic option with beneficial effect on patient health.

10. METHODOLOGICAL LANDMARKS

Types of	Techniques of teaching / learning materials and resources: lecture, interactive group work,						
activity	brainstorming, learning problems / projects etc.						
Course	Teaching based on imaging support (video projector), lecture, heuristic conversation, debate, clinical						
Course	problems						
Practical	Practical demonstrations, dialogue, presentation of macroscopic and microscopic preparations, control						
work	of acquired knowledge, practical applications, problem solving, heuristic conversation						
Individual	The students are gave guidelines about organizing the study time, learning techniques, working						
study	memory training and avoiding procrastination.						
T 1.1.1.							

In special situations (alert state, emergency state and other types of situations which limit the physical presence of people) the activity cabe done also online by using computer platforms agreed by the university. The online educational process will be adapted to ensure the accomplishment of all objectives from the discipline sheet.

11. RECOVERY PROGRAM

Absences recoveries	No. absences that can recover	Location of deployment	Period	In charge	Scheduling of topics
	3	Discipline Headquarters	End of Semester	Teaching staff of the discipline	Depending on the absences

		Online environment							
Schedule consultations Students' circle	2 hours/week	Discipline Headquarters/ Online environment	Weekly	Teaching staff of the discipline	According to the internal schedule				
Program for students poorly trained	2 hours/ semester	Discipline Headquarters/ Online environment	Last two weeks	Teaching staff of the discipline	According to the internal schedule /Achievement of specific objectives				
12. ASSESMENT	12. ASSESMENT								
Activity	Types of ass	esment	Methos o	of evaluation	Percentage from final grade				
Curs	semester	sesment during th	Exam (or	ral)/ sistem "face to face" ne video platform	75%				
Lucrări practice	Formative assesment during the semester Periodic assesment during the semester Summative assesment in the last week of the semester				15%				
Periodic assesment					5%				
Assement of individ	ual activities				5%				
Minimum performance standard					at least 50% for each component of the evaluation				
	13. GUIDANCE AND COUNSELLING PROGRAMS								
Professional guidance and counselling programs (2 hours/monthly)									
Scheduling the hours	In charge								
Last Friday of every month Discipline headquarters/online					Teaching staff of discipline				

Endorsement date in the department: 27.09.2022

Department Director, Coordinator of study program, Discipline holder,
Prof. Eugen OSIAC Prof. Marius Eugen CIUREA Prof. Maria BĂLĂȘOIU