1.	Subject	MEDICAL MYCOLOGY AND PARASITOLOGY				
2.	Code	MLD – 315				
3.	Study program:	Three-year professional studies of medical laboratory diagnostics				
4.	Conducted by	UKIM – Medical faculty				
		Department of Microbiology with Parasitology				
5.	Degree of	FIRST				
	education (first or					
	second cycle)	WWW 7 Condition 4				
6.	Academic year/semester	III/V 7. Credits 4				
8.	Professor	Head of the Department of Microbiology with Parasitology – prof. d-r Elena				
	1101000	Trajkovska Dokikj				
		The lessons are held by all the members of the Department of Microbiology				
		with Parasitology				
9.	Prerequisite					
10.	Goals	The main aim of the subject program (after the lessons and the exam) is for the students to gain basic knowledge of the fungi and parasites as special types of microorganisms that a person encounters in his life, with special attention to fungi and parasites which cause infections. After finishing the program, the students will gain knowledge about: • Morphology and physiology of different types of fungi • Different ways of fungal multiplication • Classification of the causers of fungal diseases • Morphology and structure of different types of parasites • Biological cycles of parasites • Classification of the causers of parasitic infections • General antimycotic and anthelmintic				
11.	Content summary:					
	Practical lessons (
	•	ng mycotic disorders				
		the way of taking sample for mycotic diagnosis				
	•	vation, bases and cultivation conditions				
		ting between different fungi types – analysis of colonies				
		ng sensitivity to antimycotics detection of yeast, analysis of antimycotic sensitivity with automatic methods				
	Practical lessons (
		f detecting cysts and trophozoite in protozoa in feces				
		on of blood tissue protozoa and protozoa of body cavity				
		f detecting parasitic eggs				
	Microscopy	y of slides of parasitic eggs				
	 Taking a sv 	wab				
		y of a swab				
		 Serological techniques of identifying parasites 				
	Molecular techniques of identifying parasites					
12.	•	Teaching methods:				
	• Interactive theoretical lessons					

Self-supporting practice Practical lessons/seminars

- Problem-solving
- Independent analysis of microscopic structures and yeast and fungal cultures
- Analysis of serological reactions for identifying yeast and fungus
- Analysis of molecular reactions for identifying yeast and fungus
- Independent analysis of parasitic eggs in a native structure and recognizing adult parasites
- Analysis of serological results for identifying parasites
- Analysis of molecular reactions for identifying parasites
- Analysis of yeast results with automatic diagnostic, analysis of the results of antimycotic sensitivity of isolates

	sensitivity of isolates						
13.	Total classes:		60				
14.	Organization		1				
15.	Types of teaching activities		15.1	Lessons:	15		
				theoretical classes			
			15.2	Practical lessons	45		
16.	Other types of activities		16.1	Projects			
	**		16.2	Self-supporting			
				practice			
			16.3	Learning at home	60		
17.	Knowledge assessment		Points				
	17.1	Tests: 2				Min. – Max.	
			Written test – part of the theoretical lessons 18 - 30				
				Written test – part of the practical lessons 30 - 50			
	17.2	Active participation				Min Max.	
			Theoretical lessons			2 - 5	
			Practica	al lessons		10 - 15	
			The student can miss two of the practical lessons.				
	Grading	Up to 59 points	5 (F)				
	criterion	From 60 to 68 points	6 (E)				
	(points/grades)	From 69 to 76 points	7 (D)				
		From 77 to 84 points	8 (C)				
		From 85 to 92 points	9 (B)				
		From 93 to 100	10 (A)				
		points					
19.	Requirements To obtain a signature, the student must gain at least 60% of the points of the					s of the	
	for obtaining a theoretical and practical lessons.						
	signature and						
	attending the						
	final	based on the sum of the	e points f	rom all the activities.			
	examination						
20.	Language	Macedonian					
21.	Method of	Students' anonymous e		-	rofessors and the	e	
	evaluating the	collaborators who parti	cipate in	the lessons.			
	quality of the						
		lessons					
22.		Literature					
	22.1	Mandatory literature	T				
	1. Grinvud D. et al., Translation by: prof. d-r Nikola						
	Panovski, prof. d-r Milena Petrovska, prof. d-r Elena					l-r Elena	

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			Trajkovska Dokikj, prof. d-r Kakja Popovska, Medical
			Microbiology, 17 th ed. 2006, translated 2011 as part of the
			government project translation of professional and
			scientific books, 2010
		2.	prof. d-r Nikola Panovski, prof. d-r Milena Petrovska,
			prof. d-r Elena Trajkovska Dokikj, prof. d-r Kakja
			Popovska, Microbiology with Parasitology Textbook and
			practicum for the students of professional studies,
			Department of Microbiology and Parasitology, 2008
		3.	Prof. dr. Milena Petrovska et al. Practicum of medical
			microbiology and parasitology, Department of
			microbiology and parasitologym 5 th edition, 2010
		4.	Prof. d-r Nikola Panovski et al., Medical Microbiology –
			general part, Department of Microbiology and
			Parasitology, 2011
		5.	Prof. d-r Nikola Panovski et al., Medical Microbiology –
			specialized part, Department of Microbiology and
			Parasitology, 2011
	22.2 Additional literature		
		1.	Jawetz E, Melnik II, Adelberg EA., Medical
			microbiology, Savremena Administracija, Belgrade, 21 st
			edition, 2004
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