1.	Subject	MICROBIOLOGY AND PARASITOLOGY 2					
2.	Code	OM 312					
3.	Study Program	General Medic	General Medicine				
4.	Organizing Institution (Unit, Institute, Chair, Department)	UKIM-Faculty of Medicine Cathedra of Microbiology and Parasitology					
5.	Educational degree (first or second cycle)	Integrated cycle					
6.	Study year/semester	III year / V semester	5.	Number of EKTS credits	6		
8.	Responsible teacher	Head of department/cathedra					
		Prof. Dr. Zaklina Cekovska					
		Teaching is conducted by following members of the Cathedra of Microbiology and Parasitology					
9.	Preconditions:	Completed course in Medical Microbiology 2					
10.	Course objectives (competencies):						
	The objectives of the course enables students to acquire:						
	 More specific knowledge of medical important bacteria; Solid knowledge of important medical viruses; The necessary knowledge about medical important fungi; More specific knowledge specific knowledge of medical important parasites. 						

11. Course content:

Theory:

Medical bacteriology

- Classification of medical important bacteria
- Gram positive cocci• Gram negative cocci
- Gram-positive bacilli
 Gram negative bacilli
- Intracellular bacteria
- Spiral bacteria

Medical virology

- Classification and nomenclature of viruses
- RNA viruses
- DNA viruses

Medical mycology

- Triggers superficial mycoses
- Triggers systemic mycoses

Medical Parasitology

- Medical significant protozoa
- Medical significant helminths

Intra-hospital infections

Diagnosis of microbial infections in different systems

Practical classes:

- Microbiological diagnosis of infections caused by pyogenic cocci;
- Microbiological diagnosis of infections involving the respiratory tract;
- Microbiological diagnosis of infections involving the urogenital tract;
- Microbiological diagnosis of infections involving the gastrointestinal tract;
- Microbiological diagnosis of infections involving the central nervous system;
- Microbiological diagnosis of intra-hospital infections;
- Microbiological diagnosis of anaerobic infections;
- Laboratory diagnosis of infections caused by fungi, protozoa and helminthes.

12.	Methods of studying:							
	Interactive teaching, practical course, seminars							
13.	Total number of hours:				130 hours			
14.	Distribution of available time:							
15.	Type o	of educational	15.1	Lectures	-theoretical	45 hours tea	ching	
	activit	· J	15.2	Practical	(laboratory,			
				clinical), seminars team wo	5,	30 hours practic course/seminar		
			16.1	Home st	udy	60 hours		
17.	Assess	sment of knowledge	e:				points	
	17.1	Tests			ontinuous tests elected parts f	from theoretical mid points	min max crobiology 12 - 20	
					ontinuous test theoretical sec	from first practical cond part points	part (first half) 21 -35	
		Final exam				r	min max.	
		1 Illai CAalii		Oral	part	points	18 - 29	
	17.2	Seminar work/pro (presentation: write oral)		Semi	nar work	points	min. – max. 0 - 3	

	17.3	Active participation				min max.
				Theoretical course	points	1 - 3
				Practical course	points	8–10
				Attendance at theoret 51% - 60% = 1 poin 61% - 91% = 2 poin 91% - 100% = 3 poin Practical course (24 p	t ts ts	f 3 hours)
18.	Know	ledge		to 59 points		5 (five) F
	assessment criteria: (points/grade)		from 60 to 68 points		6 (six) E	
	· ·	,		9 to 76 points	7 (seven) D	
	from		from 7	7 to 84 points	8 (eight) C	
			from 8	5 to 92 points	9 (nine) B	
			from 93	3 to 100 points		10 (ten) A

19.		ure and	btaining a taking the	Conditional criteria for assessment of knowledge: Knowledge assessment criteria:				
				 4. Students need 70% from a total points (from presence of theoretical and practice work) should receive approval for their attendance (sign document). 5. In order to take the final exam, the student has to win a minimum of 60% of the two continual assessment tests. 6. The minimum passing score for the final examination is 60% out of the total points. 				
20.	Language of the course			Maced	onian			
21.	. Method for evaluation of the quality of education Anonymous evaluation by students on the subject, staff, and associates participating in the teaching.				t, teaching			
22.	Literature:							
	22.1	Mandatory literature						
		No.	Author	r	Title	Publisher	Year	

1	Jawetz E, Melnik II, Adelberg EA.	Medical Micioborlogy		21 th ed., 2004
	Grinvud D.	Medical Microbiology		17-Th edition,
2	Nikola Panovski and ass.	Special Microbiology	University "Ss. Cyril and Methodius" Medical faculty	2011
3	Milena Petrovska and ass.	Practical Microbiology	University "Ss. Cyril and Methodius" Medical faculty	5 th ed., 2010