1.	Subject	IMMUNOLOGY								
2.	Code	MLD – 222								
3.	Study program:	Three-year professional studies of medical laboratory diagnostics								
4.	Conducted by	UKIM Medical Faculty – Skopje								
		Department of Immunology								
5.	Degree of	First cycle								
	education (first or									
	second cycle)									
6.	Academic	First/I 7. C	Credits		4					
	year/semester									
8.	Professor	Head of the Department: prof. d-r Meri Kirjas								
-	D	*the lessons are held by all the members of the Department								
9.	Prerequisite									
10.	Goals	• Understanding the structure and the function of the immune system								
		-	-		ge about the basics of clinical immunology					
		• Gaining knowledge about the immunology laboratory methods								
		v		•	nmunology laboratory methods					
		Gaining knowledge about microscopy								
		0			ge about HLA typing					
		 Gaining elen 	nentary	knowled	ge about identifying antibodies					
		• Gaining elementary knowledge of the immunology laboratory system of								
	quality									
11.	Content summary:									
	Theoretical lesson									
		F								
	 Acquired in 	mmune response	e							
	 Immunoger 	ns and antigens								
	 Antigens pr 	resentation								
	 B cells and 	antibodies								
	• T cells									
	 Major histo 	compatibility c	complex	X						
	• Immune sy	stem activation	and cy	rtokines						
	Toleration and autoimmunity									
	 Hypersensi 	tivity reaction								
	Immunodeficiencies									
	Tumor immunology									
	• Transplant immunology									
	Immunizat	 Immunization and infectious diseases 								
	Seminars:									
		acquired immur	-							
	Foundation	s of clinical im	munolo	ogy						
	 Hypersensi 	tivity reaction								
		immunology								
12.	Teaching methods: Interactive classes, seminars									
13.	Total classes:			60						
14.	Organization			15 theoretical lessons						

			30 pra	ctical lessons			
			15 lessons – seminars				
15.	Types of teaching activities		15.1	Lessons:	15		
10.				theoretical classes	-		
			15.2	Practical lessons	30		
				Seminars	15		
16.	Other types of activities		16.1	Practice			
			16.2	Self-supporting			
				practice			
			16.3	Learning at home			
17.	Knowledge assesment		Points				
	17.1 Mid-term exams		Minmax.				
			First m	nid-term exam	12 - 20		
			Second	6 - 10			
	17.2	Final exam			MinMax.		
			Final (oral) exam 21.5 -				
			Integra				
	17.3	Paper/project (oral			Min. – Max.		
		presentation)			1 - 2.5		
			· ·	Preparing a paper on a given subject and oral presentat			
			of it.				
	17.4	Theoretical and	Min. – Max. Points				
	practical lessons		19.5 - 32.5				
18.	Grading	Up to 59 points	5 (five) F				
	criterion	From 60 to 68 points	6 (six) E				
	(points/grades)	From 69 to 76 points	7 (seven) D				
		From 77 to 84 points					
	From 85 to 92 poi		9 (nine) B				
		From 93 to 100	10 (ten) A				
10	points			· · · · ·	· · · · · · · · · · · · · · · · · · ·		
19.	Requirements				n points from visiting the		
	for obtaining a				e grade is based on the sum of		
	signature and	the points of all the activities, mid-term exams, seminars and final exam.					
	attending the						
	final						
20	examination	Macedonian					
20.	examination Language	Macedonian	aluation	of the subject the pr	ofessors and the collaborators		
20. 21.	examination Language Method of	Anonymous student ev	aluation	of the subject, the pro-	ofessors and the collaborators		
	examination Language Method of evaluating the		aluation	of the subject, the pro-	ofessors and the collaborators		
	examination Language Method of evaluating the quality of the	Anonymous student ev	aluation	of the subject, the pro-	ofessors and the collaborators		
21.	examination Language Method of evaluating the quality of the lessons	Anonymous student ev	aluation	of the subject, the pro	ofessors and the collaborators		
	examination Language Method of evaluating the quality of the lessons Literature	Anonymous student ev who hold the lessons.	aluation	of the subject, the pro	ofessors and the collaborators		
21.	examination Language Method of evaluating the quality of the lessons	Anonymous student ev who hold the lessons. Mandatory literature					
21.	examination Language Method of evaluating the quality of the lessons Literature	Anonymous student ev who hold the lessons.	Kubi.,	Immunology (selecte	ofessors and the collaborators d chapters); Tabernakul,		
21.	examination Language Method of evaluating the quality of the lessons Literature	Anonymous student ev who hold the lessons. Mandatory literature 1.	Kubi., skopje	Immunology (selecte , 2011	d chapters); Tabernakul,		
21.	examination Language Method of evaluating the quality of the lessons Literature	Anonymous student ev who hold the lessons. Mandatory literature 1. 2.	Kubi., skopje Depart	Immunology (selecte , 2011 ment of Immunology	d chapters); Tabernakul, . Authorized lectures.		
21.	examination Language Method of evaluating the quality of the lessons Literature	Anonymous student ev who hold the lessons. Mandatory literature 1.	Kubi., skopje Depart Practic	Immunology (selecte , 2011 ment of Immunology cum of Immunology, s	d chapters); Tabernakul,		
21.	examination Language Method of evaluating the quality of the lessons Literature	Anonymous student ev who hold the lessons. Mandatory literature 1. 2.	Kubi., skopje Depart Practic Facult	Immunology (selecte , 2011 ment of Immunology sum of Immunology, s y – Skopje, 2006	d chapters); Tabernakul, . Authorized lectures.		