1.	Name of the subject	PATHOLOGY 1				
2.	Code	OM 313				
3.	Study program	General medicine				
4.	Organizer of the study program (Unit, Institute, Cathedra, Section)	UKIM – Medical Faculty Department of Pathology				
5.	Degree of education (first or second cycle)	Integrated cycle				
6.	Academic year / Semester	Third / V7.No. of ECTS credits9				
8.	Lecturer	Head of department: Liljana Spasevska *The lectures are conducted by all teachers at the department of Pathology				
9.	Conditions for enrolling the subject	Passed first part of the professional exam Fulfilled conditions for enrolment in the Vth semester				
10.	 Aims of the subject program (skills): The student will get to know the causes and general mechanisms of development of the diseases, as well as understand the structural and functional changes in the cells, tissues and organs by using the routine morphological and contemporary molecular techniques. While studing general pathology, the student will learn about the basic cellular and tissue responses to various pathological stimuli. In the special section, the sudent will learn the characteristic responses and changes during various pathological conditions of RES, cardiovascular and respiratory system. The student will learn the macroscopical and histological methods of analysis of the morphological changes in the organs, tissues and cells, based on which the diagnosis is established and therapy is planned. Content of the subject program: Theory: General pathology and part of the special pathology: Cellular injury, adaptations and death 					

	 Acute and chronic inflammation Tissue regeneration and reparation Specific inflammation Genetic diseases Immunopathology Environmental and nutritional diseases Pathology of the neoplasia Pathology of the reticuloendothelial system Pathology of the cardiovascular system Pathology of the respiratory system 						
	Practical training: Learning the skills of microscopic analysis and diagnostics on histopathological slides, dissection and macroscopic analyses of surgical specimens, autopsy technique, interpretation of the changes with determination of the basic disease and immediate cause of death; altogether, practical application of the acquired theoretical knowledge.						
12.	Methods of learning: Interactive lecutres, practical excercises / seminars						
13.	Total time available			270 classes Credits 9x30 classes per 1 credit= 270 270-135 theoretical classes, excercises and seminars= 135 classes home learning)			
14.	Distribution of the ava	ilable ti	ime				
15.	Forms of teaching activities	15.1	Lessons theoret Exercis	ical lessons	75 classes Exercises: 60 classes		
		 	(labora semina work	tory),			
16.	Other forms of activities	16.1 16.2	Project Indeper	tasks ndent tasks	Facultative Facultative		
		16.3	Home l	earning	135 classes		

17.	Evalu	ation		points				
	17.1	Tests			min-max			
			Continuous checks of knowledge*	• points	12 - 20			
			Continuous checks of knowledge (colloquium):					
			2 written tests					
			Covering the following areas of Pa	Covering the following areas of Pathology 1:				
			The first colloquium:					
			 Cellular injury, adaptations a Hemodynamic disorders, throads Acute and chronic inflammation Tissue regeneration and reparat Specific inflammation Genetic diseases Immunopathology Environmental and nutritional provided in the second s	ombosis a ion The ion				
			Students can obtain 12- 20 points	from one	e colloquium			
		Final exam	Oral part* po	oints	min-max 13 - 23			
			Practical part** po	ints	13 - 23			

		 *Oral part (integrative) - 2 questions from the fields of pathology of neoplasia, RES, cardiovascular system and respiratory system, as well as integrative knowledge of pathology important for understanding of the entire subject and medical practice. (for grade 10=21-23 points; for 9=19-20 points; for 				
		8=17-18 points; for 7=15-16 points; for 6=13-14 points)				
		**Practical part (according to the catalogue of skills): microscopic analysis and diagnosis of histopathological slides, dissection and macroscopic analyses of surgical specimens.				
		(for grade 10=21-23 points; for 9=19-20 points; for				
		8=17-18 points; for 7=15-16 points; for 6=13-14 points)				
		The student must get at least the minimum points for each part of the exam in order to get the points from the final exam. Otherwise, the exam is considered to be failed.				
17.2	Seminar / project (presentation: written and oral)	min - max Seminar work 1 – 2 points				
17.3	Active participation	min - max Theoretical lessons* points 1 - 2 Practical lessons** points 10 - 12				
		*Attendance at theoretical lessons				
		Up to 35% o points				
		35%-70% 1 points				
		71%-100% 2 points				
		** Practical excercises (24 groups of exercises lasting 4				

		classes):				
		Attendance: 0.25 points				
		Colloquium on misse	Colloquium on missed exercise 0.25 points			
18.	Criteria for grading	Up to 59 points	5 (five) F			
	(points / grade)	from 60 to 68	6 (six) E			
		points				
		from 69 to 76 points	7 (seven) D			
		from 77 to 84	8 (eight) C			
		points				
		from 85 to 92	9 (nine) B			
		points				
		from 93 to 100 points	10 (ten) A			
19.	Conditions for	Conditional crite	nia			
19.	signature and for					
	taking the final exam	Conditions for a signature				
		In order to get a signature, the student has to attend the theoretical lessons, practical excercises and the seminars, and to achieve at least minimum points (1+10 points).				
		Conditions to tak	Conditions to take the final exam			
		In order to take the final exam, the student ha				

				 achieve at least a minimum points for each of the periodical evaluations separately (12+12 points), or get at least 30% of the total number of points provided for continous check of knowledge (6+6 points); during the exam session the student must take an examination for the failed periodical evaluation(s) first, and afterwards the student may proceed to the final exam. The final grade is formed according to the grading table, based on the sum of the points earned from all activities, continuous checks of knowledge and the final exam. 			
20.	Teach	ing lan	iguage	Macedonian			
21.	Method for monitoring the quality of lectures			Student`s anonymous evaluation of the subject, teachers and associates involved in the educational process.			
22.	Litera	[
		Mand	latory literat	ure			
		No.	Autho	or	Title	Publisher	Year
		1	Kumar V, O RS, Robbir		Basic Pathology. 7th ed.	W.B. Sounders Company,Pilade	2003
			Robbins			lphia	
	22.1	2	Винај Н Абул Абас Нелсон Фа Ричард Ми	аусто,	Основи на патологијата според Робинс	Табернакул	2010
		3	Катедра патологија група авто		Избрани поглавја од Патологија 1	Медицински факултет, Скопје, УКИМ	2010
		4	Катедра патологија група авто		Практикум за хистопатолошки вежби	Медицински факултет, Скопје, УКИМ	2008
		5					
	22.2 Additional literature					1	1

No.	Author	Title	Publisher	Year
1	Kumar V, Kotran RS, Robins SL.	Osnovi patologije. 5 izdanje	Školska knjiga, Zagreb,	1994
2	Kumar, Abbas, Fausto, Aster	Pathologic Basis of Disease, eight edition	Saunders	2010
3	Робинс и Котран	Патолошки атлас	Saunders Elsevier Академски печат	2006 2010
4	Робинс и Котран	Патолошка основа на болестите - 8 изд.	Арс Ламина- публикации	2015
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