Attachment No. 3		Course program for the first cycle of studies			
1.	Course title	General pathology			
2.	Code	DMMGP2			
3.	Study program	Dentistry - integrated first and second cycle of studies			
4.	Organizer of the study program (unit, i.e., institute, department, division)	University "Ss. Cyril and Methodius" in Skopje. Faculty of Medicine - Skopje, Department of Pathology			
5.	Degree (first, second, third cycle)	Integrated first and second cycle studies			
6.	Academic year/semester	Year	2	Semester	3
7	Course workload expressed in ECTS credits	4			
8.	Teacher (in case of multiple teachers, designated teacher in charge)	Head of Department Prof. Dr. Magdalena Bogdanovska Todorovska *Teaching is performed by all members of the department			
9.	Language in which the curriculum is conducted	English			
10.	Necessary prerequisites for listening and taking the class	Listened to all subjects from the I and II semesters			
11.	Course objectives (competences) and learning outcomes:	- The student should become familiar with the basics of pathology, disease processes, and damage mechanisms. - The student should become familiar with the causes and general mechanisms for the occurrence of diseases; understand the structural and functional changes in cells, tissues, and organs by applying routine morphological and modern molecular diagnostic techniques. - When studying general pathology, to get to know the basic cellular and tissue responses to various pathological stimuli. - The student should become familiar with the macroscopic and microscopic methods of examining morphological changes in organs, tissues, and cells, on the basis of which a diagnosis is made and therapy is planned.			
12.	Detailed course content by chapter and units, with the learning outcomes for each chapter	Theoretical teaching - lectures Cellular damage, adaptation, and death of a cell...5 classes - Types of cell damage - Mechanisms of damage - Damaged cell morphology - Adaptive response - intracellular accumulations - Cellular adaptations of growth and differentiation Hemodynamic disorders, thrombosis, and shock...5 classes			

		- Oedema, hyperemia, congestion, and ischemia - Hemorrhage - Thrombosis and embolism - Heart attack - Disseminated intravascular coagulation (DIC) - Shock Acute and chronic inflammation....5 classes - Etiological factors - Cellular and vascular changes of acute inflammation - Morphological forms of acute inflammation - Outcome of acute inflammation - Granulomatous inflammation - Defending the body from infections Tissue regeneration and repair... 2 classes - Tissue regeneration - Repair by forming connective tissue - Skin wound healing Specific inflammations...3 classes - Tuberculosis - Leprosy - Sarcoidosis - Syphilis - Actinomycosis - Brucellosis Immunopathology... 5 classes - Innate and acquired immunity - Hypersensitivity diseases - Autoimmune diseases - Diseases of acquired immunodeficiency Tumor pathology...5 classes - Introduction to tumor pathology - Basic characteristics of benign and malignant tumors and nomenclature - Carcinogenesis - Metastasizing - TNM classification Practical teaching - exercises - Introduction - Introduction to basic diagnostic methods in a pathology laboratory….2 classes - Cell pathology... 5 classes - Hemodynamic disorders...5 classes - Benign tumors....5 classes - Malignant tumors....5 classes - Introduction to macroscopic description and dissection of surgical material....5 classes - Repetition ...3 classes		
13	Interrelation of subjects			
14.	Detailed description of the teaching and working methods for the subject	Interactive teaching, exercises, working in small groups (according to the specifics of the subject)		
15.	Total Available Time	120 classes		
16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching. Classes	30
		16.2.	Exercises (laboratory, auditorium), seminars, teamwork: classes	30
		16.3.	Practice: classes	
17.	Other forms of activities	17.1.	Project assignments: classes	
		17.2.	Independent assignments: classes	
		17.3.	Home study - assignments	60
18	Signature requirements	Attendance at exercises (missing no more than two exercises allowed) and attendance at 60% of lectures		
19	Method of grading			

	19.1.	Tests:			Continuous knowledge verification (colloquium): Test on General Pathology in the second colloquium week. from the sections: cell, hemodynamic disorders, inflammation, repair, and specific inflammations. The test is passed with a minimum of 24 out of a maximum of 40 points	
	19.2.	Seminar work/project, written and oral presentation: points				
	19.3.	Final exam:			The condition for taking the final exam is a colloquium in General Pathology. Final exam: Oral part* Practical part** *Oral exam (integrative) 3 questions from all areas covered by the General Pathology subject program **Practical part (according to skill catalogue): microscopic analysis and diagnosis of 2 histological preparations The student is obligated to score a minimum of the stipulated points for each part of the exam separately. Otherwise, the exam is considered as failed. The subject grade is formed according to the table of grades, and based on the sum of the points from all activities, Continuous assessment , and the final exam.	
20	Evaluation criteria (points/grade)			up to 59 points	5 (five) (F)	
				from 60 to 68 points	6 (six) (E)	
				from 69 to 76 points	7 (seven) (D)	
				from 77 to 84 points	8 (eight) (C)	
				from 85 to 92 points	9 (nine) (B)	
				from 93 to 100 points	10 (ten) (A)	
21.	Method of monitoring the quality of teaching			Self-evaluation by students, assistant control during the practical teaching and assessment of the achieved student success, as well as the pass rate of students who have passed the subject		
22.	Literature					
	22.1.	Required literature				
		Ord. number	Author	Title	Publisher	Year
		1.	Kumar, Abbas, Fausto, Aster (editors)	Robbins and Cotran: Pathologic Basis of Disease	Ars Lamina, Skopje	2015

		2.	Kumar V, Abbas AK, Fausto N, Aster JC.	Pathologic Basis of Disease, 8th Edition	Saunders	2010
		3.	Group of authors	Histopathological Exercise Practices for Medical and Dental Students	Department of Pathology, Faculty of Medicine, Skopje	2008
	22.2.	Additional literature				
		Ord. number	Author	Title	Publisher	Year
		1.	Robbins and Cotran	Pathology Atlas	Saunders	2006/2010