

1	Subject	Pathological principles of the diseases			
2	Code	DPP208			
3	Study Program	Study Program of Integrated studies in dental medicine			
4	Organizing Institution (Unit, Institute, Chair, Department)	UKIM – Medical Faculty Department of Pathology			
5	Educational degree (first or second cycle)	Integrated study			
6	Study year/semester	2/4	7	Number of credits	5
8	Teacher	Prof. Liljana Spasevska			
9	Preconditions	Signatures of first and second semester courses			
10	Teaching goals: <ul style="list-style-type: none"> To enable learning of the ethiopathogenetic mechanisms of the diseases. To enable to learning of the morphologic basis, macroscopic and histopathologic changes in tissues and organs in diseases of all systems. To train the students for morphologic diagnostics of the diseases, as well as to introduce the contemporary diagnostic techniques. To introduce the basic clinical manifestations of the diseases. 				
11	Brief content				
	Theoretical course				Class
	Pathology of the reticuloendothelial system <ul style="list-style-type: none"> ➤ Anemias ➤ Reactive proliferations of white cells ➤ Neoplastic proliferations of white cells 				4
	Pathology of the cardiovascular system <ul style="list-style-type: none"> ➤ Disorders of the arteries and veins ➤ Heart failure ➤ Ischemic heart disease ➤ Cardiomyopathies 				4
	Pathology of the respiratory system <ul style="list-style-type: none"> ➤ Pathology of nose and paranasal sinuses ➤ Lung pathology ➤ Obstructive and restrictive pulmonary disease ➤ Diseases of vascular origin ➤ Pulmonary infections ➤ Tumors ➤ Pathology of the pleura 				4
	Pathology of the digestive system <ul style="list-style-type: none"> ➤ Diseases of the oral cavity and salivary glands ➤ Diseases of the esophagus, stomach, small and large intestine ➤ Diseases of the appendix 				6
	Pathology of the liver and biliary tract <ul style="list-style-type: none"> ➤ Viral hepatitis, cirrhosis, tumors of the liver ➤ Disorders of the gallbladder ➤ Disorders of the pancreas 				3
	Pathology of the urinary system <ul style="list-style-type: none"> ➤ Acute and chronic renal failure ➤ Analgesic nephropathy 				1
	Pathology of the endocrine system <ul style="list-style-type: none"> ➤ Disorders of the pituitary gland ➤ Disorders of the thyroid gland ➤ Hypoparathyroidism and hyperparathyroidism ➤ Diabetes Mellitus 				4
	Pathology of the breast				2

	<ul style="list-style-type: none"> ➤ Fibrocystic Changes ➤ Tumors of the breast 		
	Pathology of the central nervous system <ul style="list-style-type: none"> ➤ Cerebral edema, raised intracranial pressure and herniation ➤ Infections ➤ Tumors 	4	
	Pathology of the female genital tract <ul style="list-style-type: none"> ➤ Pathology of the cervix ➤ Pathology of the uterus ➤ Pathology of the ovaries 	4	
	Pathology of the skin <ul style="list-style-type: none"> ➤ Definitions of the macroscopic and microscopic terms ➤ Disorders of pigmentation and melanocytes ➤ Tumors ➤ Bullous diseases 	4	
	Pathology of the locomotory system <ul style="list-style-type: none"> ➤ Infections ➤ Bone tumors ➤ Soft tissue tumors 	4	
	Total	45	
	Practical lessons:	Class	
	Pathology of the cardiovascular system Pathology of the respiratory system Pathology of the oral cavity Pathology of the digestive system Pathology of the genitor-urinary system Pathology of the breast and reticuloendothelial system Pathology of the endocrine system Pathology of the central nervous system Pathology of the locomotory system	15	
	Total	15	
12	Methods of studying: class room oriented lectures, interactive lectures, group work, practical training, seminar paper		
13	Total available time	150 classes	
14	Organization of the course	45 classes - theoretical course, 15 classes- practical course, 90 classes - home individual learning and other activities	
15	Forms of teaching activities	15.1. Theoretical course	45 classes
		15.2. Practical course, seminars	Practical course- 15 classes
16	Other forms of activities	16.1. Project tasks	
		16.2. Individual tasks	
		16.3. Individual (home) learning	90 classes
17	Method of assessment	17.1. Continous check of knowledge (colloquium): Written test during the exam session, covering the following chapters: pathology of the reticuloendothelial system pathology of the cardiovascular system, pathology of the respiratory system, pathology of the oral cavity, athology of the digestive system, athology of the genitor-urinary system, pathology of the breast, pathology of the endocrine system, pathology of the central nervous system, pathology of the locomotory system	Maximum 40 points, minimum 24 points

		17.2.	Active participation, seminar paper/project (oral/written presentation)			2 points
		17.3.	Final (oral) exam integrative + practical part (analysis and diagnosis of 2 histopathology slides)			Maximum 40 (20+20) points, minimum 20 (10+10) points
18	Grading criteria (points / grade)	Up to 59 points				5 (five) (F)
		from 60 to 67 points				6 (six) (E)
		from 68 to 75 points				7 (seven) (D)
		from 76 to 84 points				8 (eight) (C)
		from 85 to 93 points				9 (nine) (B)
		from 94 to 100 points				10 (ten) (A)
19	Requirement for signature and taking the final exam	<p>The student is required to actively follow all of the planned activities.</p> <p>Conditional criteria for assessment of knowledge:</p> <p>Conditions for a signature In order to get a signature, the student should obtain minimum points in both theoretical and practical courses: the student must attend at least 13 practical courses (of maximum 15), and 60% of the theoretical lessons. Minimum 13 practical courses – 13 points, theoretical lessons – 3 points Maximum 15 practical courses – 15 points, theoretical lessons – 5 points</p> <p>Conditions to take the final exam In order to take the final exam, the student has to pass the colloquium from Pathological principles of the diseases: minimum 24 points, maximum 40 points.</p>				
20	Language of the course	English				
21	Method for evaluation of the quality of education	Anonymous student's evaluation of the subject, teachers and collaborators involved in the educational activities				
22	Literature					
	22.1.	Mandatory textbooks				
		No.	Author	Title	Publisher	Year
		1.	Kumar V, Cotran RS, Robbins SL. Robbins	Pathologic basis of disease. 8th ed.	W.B. Saunders Company, Philadelphia	2010
	2.	Група автори	Практикум за хистопатолошки вежби, за студенти по медицина и стоматологија	Катедра по патологија, Медицински факултет, Скопје	2008	
	22.2.	Additional literature				
No.		Author	Title	Publisher	Year	
1.		Група автори	Авторизирани предавања по Патологија 1	Катедра по патологија, Медицински факултет, Скопје	2008	