

1	Subject	INTERNAL MEDICINE			
2	Code	DIM301			
3	Study Program	Study Program of Integrated studies in dental medicine			
4	Organizing Institution (Unit, Institute, Chair, Department)	UKIM – Faculty of Medicine Department of Internal Medicine			
5	Educational degree (first or second cycle)	Integrated study			
6	Study year/semester	3/5	7	Number of credits	9
8	Teacher	Head of the Department: prof. dr. Sonja Genadieva Stavrikj * the lectures shall be conducted by the teachers from the Department of Internal Medicine, Faculty of Medicine			
9	Preconditions	Passed all compulsory courses of 1 and 2 semester. Signatures of 3 and 4 semester courses			
10	Teaching goals:	<ul style="list-style-type: none"> The student should learn and master the required skills within rational diagnostics and modern treatment of internal diseases. The student should acquire knowledge of basic diagnostic principles and treatment within the scope of internal medicine. 			
11	Brief content				
	Theoretical course				Class
	* Endocrinology				
	Diabetes mellitus, microvascular and macrovascular complications of diabetes				2 lessons
	Acute complications, ketoacidosis and hypoglycemia				2 lessons
	Oral manifestations and treatment of endocrine diseases				1 lesson
	Thyroid disorders – hyperfunction, hypofunction				1 lesson
	Adrenal gland disorders – Addison's disease, Cushing's syndrome Diseases of parathyroid glands , hypoparathyroidism and hyperparathyroidism; osteoporosis				2 lessons
	* Toxicology				
	Signs and symptoms in acute intoxication				2 lessons
	Urgent conditions in toxicology				2 lessons
	* Gastroenterology				
	Esophageal and stomach conditions				3 lessons
	Inflammatory intestinal diseases (small and large intestine)				1 lesson
	Large intestine diseases				1 lesson
	Biliary and pancreatic diseases				1 lesson
	Liver diseases				2 lessons
	* Hematology				
	Hemorrhagic syndromes				1 lesson
	Anemia syndromes				2 lessons
	Thrombotic disorders and anticoagulant therapy				1 lesson

Acute leukemia	1 lesson
Myeloproliferative disorders – significance and implications in dentistry	1 lesson
Lymphoproliferative disorders, significance and implications in dentistry	1 lesson
*Rheumatology	
Rheumatoid arthritis, ankylosing spondylitis, systemic lupus erythematosus	2 lesson
Vasculitis	1 lesson
Systemic sclerosis and dermatomyositis	2 lessons
Osteoarthritis, gout	1 lesson
Morbus Behcet	1 lesson
*Nephrology	
Approach to patients with renal disease	1 lesson
Nephrotic syndrome, acute and rapidly progressive glomerulonephritis	1 lesson
Diabetic nephropathy, urinary tract infections	2 lessons
Acute kidney injury and chronic kidney disease	1 lesson
Dialysis	2 lessons
Kidney transplantation	1 lesson
*Cardiology	
Heart failure	1 lesson
Inflammatory diseases of the myocardium and pericardium	1 lesson
Rheumatic fever, infective endocarditis and prophylaxis	1 lesson
Cardiovascular diseases in dentistry	1 lesson
Congenital and acquired heart defects	1 lesson
Risk factors	1 lesson
Urgent cardiac conditions from the aspect of dentistry	1 lesson
Acute coronary syndrome	1 lesson
Heart rhythm disorders and conduction disturbances	1 lesson
Antiaggregation and anticoagulation therapy	1 lesson
* Pulmonology and allergology	
Respiratory tract infections (acute bronchitis and bronchiolitis)	2 lessons
Chronic obstructive pulmonary disease Necrotizing lung infections (bronchiectases and abscesses)	2 lessons
Lung tumors	1 lesson
allergic rhinitis and sinusitis	1 lesson
Asthma	1 lesson
Pleural and mediastinal disorders	1 lesson
Total	60

Practical lessons:			Class
Mastering clinical skills and practical application of acquired theoretical knowledge. The student is introduced to the basic concepts of internal practice by working in small groups during exercises. The student examines patients and participates in basic treatment procedures. The student attends and assists in the procedures for initial and definitive diagnosis, treatment and follow-up of patients with internal diseases.			45
Total			45
12	Methods of studying: class room oriented lectures, interactive lectures, group work, practical training, seminar paper		
13	Total available time	270 classes	
14	Organization of the course	60 classes - theoretical course, 45 classes- practical course, 30 classes - individual tasks, 135 classes - home individual learning and other activities	
15	Forms of teaching activities	15.1.	Theoretical course 60 classes
		15.2.	Practical course, seminars Practical course- 45 classes
16	Other forms of activities	16.1.	Project tasks
		16.2.	Individual tasks 30 classes
		16.3.	Individual (home) learning 135 classes
17	Method of assessment	17.1.	Tests Continuous testing (colloquiums): 8 written tests, covering all areas of Internal Medicine. The student can earn a minimum of 3 points to a maximum of 5 points. With a total of (8 colloquiums) 24 to 40 points.
		17.2.	Active participation, seminar paper/project (oral/written presentation) 5 points *For attendance at theoretical lectures - from 1 to 2 points * For attendance at practical classes from 2 to 3 points
		17.3.	Final (oral) exam From 33 to 55 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>In order to obtain a signature, the student is required to attend theoretical classes, participate actively in practical classes and pass the continuous tests.</p> <p>In order to pass the final exam in the exam session, the student must have passed each of the scheduled continuous checks with a minimum of 60% points.</p> <p>If during the semester he/she has not passed the continuous tests, the student shall take the complete exam (in the exam session he/she shall take the unsuccessful continuous tests first, and then the final exam).</p> <p>The grade for the subject is formed according to the grading table, and based on the sum of</p>	

		the points for all activities, the continuous tests and the final exam.				
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				
T22	Literature					
	22.1.	Mandatory textbooks				
		No.	Author	Title	Publisher	Year
		1	Anthony S. Fauci and collaborates	Selected chapters from Harrison's Principles of Internal Medicine	Tabernakul, Skopje	2012
		2	Lee Goldman, Dennis Ausiello	Cecil Medicine	Tabernakul, Skopje	2012
		3	Serafimoski V., editor in chief	Internal Medicine	Skopje: Makedonska riznica, Kumanovo	2003
		4	Serafimoski V., editor in chief	Internal propaedeutics	Skopje: Makedonska riznica, Kumanovo	2004
		5	The Internal Medicine textbook is in preparation.			
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
1		Ljubica Georgievska Ismail, Lidija Poposka, Ivan Trajkov, Nikola Gjorgov	Selected chapters from Electrocardiography	Skopje: (COBISS.MK-ID 71834122)	2008	
	2	Risto Grozdanovski, Ninoslav Ivanovski	Chronic renal disease - prevention, medical facility and therapy	Skopje: (COBISS.MK-ID 73515018)	2008	