1.	Subject	CLINICAL AND LABORATORY CORRELATIONS				
2.	Code	MLD - 322				
3.	Study program:	Three-year professional studies of medical laboratory diagnostics				
4.	Conducted by	UKIM – Medical faculty				
		Department of Internal Medicine				
5.	Degree of	First cycle				
	education (first or second cycle)					
6.	Academic	III/VI 7. Credits 4				
	year/semester					
8.	Professor	Prof. d-r Viktorija Chalovska Ivanova				
9.	Prerequisite	Enrolled in third year				
10.	Goals	 To point out the importance of laboratory diagnostics and clinical practice. Special accent to the role of laboratory medicine in diagnosing, differentiation diagnosis, treatment and following the success of therapeutic procedures Development of general and specific competences (knowledge and skills) for the subject and/or the module To point out the importance of the collaboration between laboratory personnel and the doctors, since the constant communication provides benefits for the patient who is focal for clinical medicine. Introduction to different laboratory analyses which are of great importance in 				
11	0 / /	diagnostic and therapeutic procedure.				
11.	Content summary: Theoretical lessons (45 lessons): The following clinical disciplines will be incorporated:					
	 Cardiology (7 lessons): Cardiological problems – heart and blood vessels and laboratory results in atherosclerosis and coronary heart diseases, heart failure, cardiomyopathy and hypertension. Getting acquainted with clinical entities: congestive heart diseases, heart weakness 					
	Endocrinology (8 lessons):					
	 Endocrine diseases and metabolic disorders: laboratory results in diabetes mellitus, diseases of the adrenal gland, hyperlipidemia, thyroid and parathyroid gland problems. Getting acquainted with the clinical entities: diabetes mellitus and presentation of diabetic complications 					
	 Gastroentero-hepatology (12 lessons) Diseases of the gastrointestinal system: laboratory results in peptic ulcer, stomach cancer, chronic ulcer colitis, Crohn diseases, acute and chronic pancreatitis, pancreatic cancer, liver cirrhosis, acute hepatitis, chronic hepatitis, liver cancer, cholelithiasis and acute cholecystitis. Getting acquainted with the clinical entities: liver cirrhosis, ulcer disease, liver cancer, stomach cancer and pancreatic cancer. 					
 Nephrology (10 lessons) Kidney disease and laboratory results in: acute and chronic kidney insufficiency, chronic pyelonephritis, glomerulonephritis, nephrolithiasis, kidney cystic disease syndrome, hyper and hypokalemia. Getting acquainted with clinical entities: acute 						

	chronic kidney insufficiency					
	 Pulmonology (6 lessons) Lung diseases and laboratory results in: inflammation of the lungs, chronic obstructive lung disease and lung cancer. 					
	 Toxicology (2 lessons) Urgent medicine and laboratory diagnosis, organization of hospital and infirmary departments, urgent medicine services and tasks for urgent laboratory. 					
12.	Teaching methods:					
	Interactive theor	etical lessons, paper	-			
13.	Total classes:		95			
14	Organization					
15.	Types of teaching activities		15.1	Lessons: theoretical classes	30	
			15.2	Practical lessons, seminars	15	
16.	Other types of a	ctivities	16.1	Practice	15	
			16.2			
			16.3	Learning at home	35	
17.	Knowledge asse		Points		7 0 00 1 1 1	
	17.1	Tests	5 10	50-80 points minmax.		
	17.2	Paper/project (written and oral presentation)	5 – 10 points			
	17.3	Active participation	5 - 10	points		
18.	Grading Up to 50		5 (five) F			
10.	criterion	51-60	6 (six) E			
	(points/grades)	61-70		7 (seven) D		
	a c ,	71-80	8 (eight) C			
		81-90	9 (nine) B			
		91-100	10 (ten) A			
19.	Requirements for obtaining a signature and attending the	To obtain a signature, the student must gain minimum points 60% in the mid-term exams.				
	final examination	To attend the final exam, the student must prepare a paper and a power point presentation.				
		The final grade is formed according to the grading criterion, and is based on the sum of the points of all the activities.				
20.	Language	Macedonian				
20.	Method of		valuatior	n of the professors ar	nd lessons. The content of the	
	evaluating the quality of the lessons	lectures, the professors' preparation, clarity, availability of new content and other elements of the lessons are evaluated				
22.	Literature:	· · ·				
	22.1 Mandatory literature					

22.2	Additional literature	