1.	Subject	SELECTED CHAPTERS OF CLINICAL MEDICINE (INTERNAL			
	-	MEDICINE, INFECTIOUS DISEASES, CLINICAL TRAINING AND			
		DIAGNOSTIC LABORATORY)			
2.	Code	DA - 114			
3.	Study program:	Three-year professional studies for graduate obstetricians			
4.	Conducted by	UKIM – Medical faculty			
		Department of Internal medicine, Department of Infectology			
5.	Degree of	First cycle			
	education (first or				
	second cycle)		1		
6.	Academic	First/I 7.	Credits	1.5 I semester	
	year/semester	and II		4.5 II semester	
8.	Professor		Department of Inte	ernal Medicine:	
		Prof. Marij			
				owing professors from the Department of	
		Internal med			
			na Mishevska – Per	chinkova	
		-	i Bozinovski		
		Prof. Dejan		1	
			nda Popova – Jova		
			Prof. Ljubica Georgievska – Ismail		
			a Milenkovikj		
			Prof. Nenad Joksimovikj		
			Prof. Meri Trajkova		
		Prof. Goce Spasovski			
		Prof. Elizabeta Srbinovska – Kostovska			
		Prof. Silvana Jovanova			
		Prof. Sonja Genadieva – Stavrikj			
		Prof. Magdalena Genadieva – Dimitrova Prof. Peter Deianov			
		Prof. Petar Dejanov Prof. Vosna Gorasimovska			
		Prof. Vesna Gerasimovska Prof. Zlatica Dimitrieviki – Gosheva			
		Prof. Zlatica Dimitrievikj – Gosheva Prof. Irona Kafadziska			
		Prof. Irena Kafedziska Brof. Marijan Boshavski			
		Prof. Marijan Boshevski Prof. Giulshen Selim			
		Prof. Gjulshen Selim Prof. Vesna Ristovska			
		Prof. Marija Vavlukis			
		Prof. Snezana Markovikj – Temelkova			
		Prof. Biljana Gerasimovska – Kitanovska			
		Prof. Kalina Grivcheva – Stardelova			
		Prof. Lidija Petkovska			
		Prof. Hristo Pejkov			
		Doc. Lidija			
		Doc. Vladimir Andreevski			
		Doc. Sasha Mishevska – Jovanovska			
		Doc. Pavlina Djekova – Vidimliski			
		Doc. Jorgo Kostov			
		Chair of the Department of Infectology:			
		Prof. Irena Kondova Topuzovska			

		The classes are held by the following memebers of the department:		
		Prof. Irena Kondova Topuzovska		
		Prof. Snezana Kostovska Prof. Zvonko Milenkoviki		
		Prof. Zvonko Milenkovikj Prof. Mile Bosilkovski		
		Prof. Mile Bosilkovski Prof. Krato Grazdenovski		
		Prof. Krsto Grozdanovski		
	D	Doc. Maja Cvetanovska		
9.	Prerequisite	No		
10.	Goals	Internal Medicine:		
		• Learn about certain diseases, their diagnosis and treatment		
		• Learn to use the theoretical knowledge in clinical training		
		Infectology		
		• Gain theoretical knowledge in infectology, which will enable the student to		
		recognize infectious diseases, treat them and prevent serious consequences		
		• Have the ability to use theoretical knowledge about diagnosis, treatment and		
		prevention of infectious diseases in clinical training		
		Clinical training and dignostic laboratory:		
		• The importance of dignostic laboratory and clinical training. Special		
		attention is paid to pregnant women, diagnosis and treatment of pregnancy		
		complications.		
		• Developing basic and specific knowledge and skills for the subject		
		• To learn the importance of colaboration between obstetricians and doctors		
		with the laboratories, because constant good communication is beneficial for		
		the patients. Introducing different laboratory analysis which are extremely		
		important in the diagnostic and therapeutic procedure.		
11.	Content summary:			
	Internal medicine:			
	Theoretical lessons: 60 classes			
	Clinical examinati	ion of a patient (1 class)		
	Cardiology (13 classes):			
		a patient with cardiologic condition (anamnesis, physical examination, diagnostic		
	procedures			
	Coronary artery disease			
	Acute coronary syndrome			
	Weakened heart muscle			
	Heart rhythm problems			
	Sudden cardiac arrest			
	Congenital heart defects			
	Endocarditis			
	Myocarditis and pericarditis			
	Cardiomyopathies			
	Circulation problems			
	Pulmonary hypertension			
	Pulmonary embolism			
	Pulmonology (10 classes)			
	Approach towards a patient with a respiratory problem (anamnesis, physical examination, diagnostic			
	procedures)			
	Acute and chronic bronchitis			
	Emphysema			
	Bronchiectasis			
_				

Chronic obstructive pulmonary disease COPD
Asthma
Interstitial lung disease
Tumors
Disorders of the pleura
Acute respiratory distress syndrome
Reumatology (8 classes)
Approaching the patient (anamnesis, physical examination, diagnostic procedures)
Rheumatic fever
Rheumatoid arthritis
Ankylosing spondylitis
Other types of arthritis
Connective tissue diseases
Degenerative rheumatic diseases
Metabolic bone diseases
Endocrinology (6 classes)
Approaching the patient (anamnesis, physical examination, diagnostic procedures)
Thyroid and parathyroid condititions
Adrenal gland disorder
Disorders of the pituitary gland
Gastroenterohepatology (6 classes)
Approaching the patient (anamnesis, physical examination, diagnostic procedures)
Diseases of the stomach
Gastrointestinal diseases Liver diseases
Disorders of the pancreas and gallbladder ducts Nephrology (6 classes)
Approaching the patient (anamnesis, physical examination, diagnostic procedures) Acute and chronic urinary tract infections
Glomerulonephrititis
Tubulopathies
Acute and chronic kidney failure
Secondary arterial hypertension
Hematology (5 classes)
Approaching the patient (anamnesis, physical examination, diagnostic procedures)
Anemia
Leukemias
Lymphoma
Myeloproliferative disorders
Emergency medicine (2 classes)
Apporoaching an emergency patient (shock, conditions, cardiopulmonary arrest, metabolic crisis
Toxicology (3 classes)
Approaching the patient (anamnesis, physical examination, dignostic procedures)
Drug toxicity
Infectology:
Theoretical lessons:
Etiology, pathogenesis and clinical characteristics of infectious diseases
Diagnostic protocol
Antimicrobial therapy
Immunisation, seroprophylaxis and immunoproprhylaxis
Sepsis and septic shock

Streptoccocal and staph infections, diphtheria, mononucleosis Salmonellosis, dysentery, amebiasis, food poisoning, traveler's diarrhea, viral enterocolitis Pneumonia, legionella, chlamydia, mycoplasma, pertussis Bacterial and serious meningitis, meningoencephalitis and encephalitis Tetanus, botulism, rabies Anthrax, plague, tularemia, toxoplasmosis Brucellosis, malaria Spirochetes infections, rickettsia Hemorrhagic fever Variola, varicella, measles, rubella, herpes simplex virus Influenza, adenovirus, parotitis Poliovirus, enterovirus HIV, systemic fungal infections Nosocomial infections Clinical practice and diagnostic laboratory **Theoretical lessons: 45 lessons** Cardiology (7 classes) Cardiovascular diseases - the heart and the blood vessels, and laboratory results in case of myocarditis, pericarditis, coronary heart disease, heart defects, cardiomyopathy and hypertension. Diseases of the circulatory system. Getting acquainted with clinical entities: heart arrhythmia, congenital heart disease, coronary heart disease Endocrinology (8 classes) Endocrine and metabolic disorders: laboratory results in case of diabetes melitus and complications, diabetes and pregnancy, adrenal gland disorders, thyroid and parathyroid condititions. Getting acquainted with clinical entities: diabetes melitus, diabetic ketoacidosis, hypersmolar coma, hypoglycemia. Gastroenterohepatology (12 classes) Diseases of the gastrointestinal tract: laboratory results in case of peptic ulcer disease, hyperemesis gravidarum, liver disorders in pregnancy (acute fatty liver, pregnancy-associated idiopathic cholestasis, preeclampsia and liver disorders, HELLP, cirrhosis and portal hypertension in pregnancy, drug induced liver injury), ulcerative colitis, Crohn's disease, acute and chronic pancreatitis, acute and chronic autoimmune hepatitis, hepatitis B, C and D, cholestasis, fatty liver and steatohepatitis, cholelithiasis and acute cholecystitis. Getting acquainted with the clinical entities: autoimmune hepatitis, hepatitis, nonalcoholic steatohepatitis, primary biliary cholangitis, cirrhosis and portal hypertension, varicose veins bleeding, HELLP syndrome in pregnancy (hemolysis, elevated liver enzymes and thrombocytopenia), ulcer disease with complications, cholelithiasis and complications, inflammatory bowel disease. Nephrology (6 classes) Kidney diseases and laboratory results in case of: renal insuficiency, acute and chronic pyelonephritis, glomerulonephrititis, nephrolithiasis, polycycstic kidney disease, nephrotic syndrome, hyper- and hypokalemia. Getting acquainted with the clinical entities: acute and chronic renal insuficiency Pulmology (6 classes) Lung diseases and laboratory results in case of: pneumonia, bronchial asthma, chronic obstructive pulmonary disease. Toxicology (2 classes) Emergency medicine and labarotory diagnosis, organization of hospital and infirmary departments, emergency service and tasks for urgent laboratories. Teaching methods: Interactive classes 12. 13. Total classes: 50 classes internal medicine 50 classes clinical practice and dignostic laboratory

			20 class	ses infectology		
14.	Organization					
15.	Types of teaching activities		15.1	Lessons: theoretical classes	50 classes internal medicine 20 classes infectology 20 classes clinical practice and diagnostic laboratory	
			15.2	Practical lessons (laboratory, clinical), seminars, team work	35 classes clinical practice and dignostic laboratory	
			16.1	Learning at home	55 classes internal medicine 40 classes infectology	
17.	Knowledge asse	sment	Points			
	17.1	Tests	Regula	Minmax. Regular checks of knowledge Regular checks of the knowledge (mid-term exam)		
	17.2	Final exam		Oral part		
	17.3	Paper/project (oral/written presentation)	Papers			
	17.4	Active participation	Theoretical lessons			
			Practical lessons Practical lessons attendance 51%-60% 61%-91% = 2 points 91% - 100% = 3 points Practical lessons (24 groups of lessons with the duration of 3 hours)			
18.	Grading Up to 59 points		5 (five) F			
	criterion	From 60 to 68 points	6 (six) E			
	(points/grades)	From 69 to 76 points	7 (seven) D			
		From 77 to 84 points	8 (eight) C			
	From 85 to 92 points From 93 to 100 points		9 (nine) B			
			10 (ten) A		
19.	Requirements for obtaining a signature and	To obtain a signature, the student must gain minimum points from visiting the theoretical lessons. The student must regularly attend the theoretical and practical lessons so that he can attend the mid-term exam. The exam is in a written form (multiple choice).				
	attending the final examination					
		The student must obta which allows for a gra	de to be	formed.	on both the mid-term exams, he should attend the final	
		The final grade for the subject is formed according to the table for grading, and is based on the sum of the points from all the activities, mid-term exams and final				

		exam.		
20.	Language	Macedonian		
21.	Method of evaluating the quality of the lessons	Anonymous student evaluation of the subject, the professors and the collaborators who hold the lessons.		
22.	Literature			
	22.1	Mandatory literature		
		1.	Handbook of clinical medicine (translation), J.Flen, Ars	
			Lamina, 2007	
		2.	Selected chapters of internal medicine, Serafimovski V., Kumanovo: Makedonska riznica, 2003	
		3.	Infectious diseases, tome 1 and 2, Jonathan Khoen, William J. Pauderly, Tabernakul, 2012	
		4.	Infectious diseases, Dimitriev Dimitar, Ivanovski Ljubomir, Milenkovikj Zvonko, Grunevska Violeta, Kondova Topuzovska Irena, Stojkovska, Univerity "Ss.Cyril and Methodius", Medical Faculty, Skopje, 2012	