1.	Subject	MEDICAL INFORMATICS				
2.	Code	MLD - 318				
3.	Study program:	Three-year professional studies of medical laboratory diagnostics				
4.	Conducted by	UKIM – Medical faculty				
		Department of Epidemiology and Biostatistics with Medical Informatics				
5.	Degree of	First cycle				
	education (first or					
	second cycle)					
6.	Academic	III/V 7. Credits 3				
	year/semester					
8.	Professor	Head of the Department: Prof. d-r Vesna Velikj Stefanovska				
		The lessons are held the following Department members:				
		Prof. d-r Dragan Danilovski				
		Prof. d-r Biljana Taushanova				
		Prof. d-r Vesna Velikj Stefanovska				
		Prof. d-r Rozalinda Isjanovska				
		Prof. d-r Beti Zafirova Ivanovska				
		Res. Assoc. d-r Irina Pavlovska				
9.	Prerequisite	Fulfilled condition for enrolment into third year				
10.	Goals	• Describing the general concepts of information technology and medical				
		informatics				
		Listing the general computer parts				
		 Recognizing software support necessary for computers 				
		• Using a computer for working on a text, tables data, presentations and				
		general work procedures connected to proper data bases				
		• Defining health information, their organization and protection				
	• Describing health information systems					
		• Describing laboratory information systems				
		• Using a computer for communication and search the internet for data				
		• Using information communication technologies on a daily basis in				
		providing health care				
	• Using computers in health care for personal and educational go					
11.	Content summary:					
	Theoretical lesson	IS:				
	WINDOW	S operating system, MS EXPLORER; MS WORD; MS EXCEL; MS POWER				
	POINT; en	nail. Internet, web search				
	Health/med	dical informatics: entity, attributes, data types, measurements, digital data				
	organization, traits codex					
	World data	bases and their search				
	Data safety	and protection				
	• Health information systems: principles, levels, problems					
	• Telemedicine					
	Principles	of laboratory information system				
	Fractical lessons:	Practical lessons:				
	Foundation	Foundations of information technology				
	Biomedical	 Diometrical data bases – sources, search, interpretation Microsoft officer word 				
	• IVIICTOSOFT OFFICE: WORD					
	Microsoft office: excel					

	Microsoft office power point					
12.	Teaching methods: interactive theoretical l			lessons, practical lessons, seminars		
13.	Total classes:		45			
14.	Organization					
15.	Types of teaching activities		15.1	Lessons: theoretical classes	15	
			15.2	Practical lessons	30	
16.	Other types of activities		16.1	Laboratory training		
			16.2	Self-supporting practice		
			16.3	Learning at home	45	
17.	Knowledge assessment		Points			
	17.1 17.2 17.3	Tests Final exam Active participation	Mid –term exams points $18 - 30$ minmax. The mid-term exams are 2 written tests The mid-term exam includes: Tasks from selected parts Microsoft office: word Microsoft office: excel Microsoft office: power point The student can gain from 9 to 15 points on one mid-term exam Oral part points $36 - 50$ minmax. Theoretical lessons points $1 - 5$ minmax. Proceedings of the student can be a start of the start			
			Practic Theore 51-60% 61-91% 91-100 Practic duratio	al lessons points tical lessons attendar 6 = 1 point 6 = 2 points 9% = 3 points al lessons (24 groups <u>on of 3 hours)</u>	s 5 – 10 minmax ace of practical lessons with	
18.	Grading	Up to 59	5 (five)) F		
	criterion	60-68	6 (six)	E		
	(points/grades)	69-76	7 (seve	en) D		
		77-84	8 (eigh	t) C		
		85-92	9 (nine) B		
		93-100	10 (ten) A		
19.	Requirements	To obtain a signature, th	he studer	nt must gain minimur	n points from attending the	
	for obtaining a	for obtaining a theoretical and practical lessons.				
	signature and attending the minimum 30% of the total points. In			ent must pass the mid-term exams or gain		
				points. In the exam session, the student first attends the		
	final	mid-term exams, if not	passed, a	assed, and then attends the final exam.		
	examination The final grade is formed			d according to the grading criterion, and is based on the		
	sum of the points of all the activities, mid-term exams and final exam.				s and final exam.	
20.	Language Macedonian					

21.	Method of	Students' anonymous evaluation of the subject, professors and collaborators who				
	evaluating the	participate in the lessons.				
	quality of the					
	lessons					
22.	Literature:					
	22.1	Mandatory literature				
		1.	Danilovski D., Orovchanec N., Vasilevska K.,			
			Taushanova B., Velikj Stefanovska V., Isjanovska R.,			
			Zafirova Ivanovska B., Pavlovska I. Medical Statistics			
			and Informatics – three-year professional studies,			
			University Ss. Cyril and Methodious, Medical Faculty,			
			Skopje, 2015			
		2.	Kern J., Petrovechki M., Medical Informatics,			
			Medicinska Naklada Zagreb, 2009			
		3.	Hercigonja-Szekeres M., Handbook of Medical			
			Informatics, Zdravstveno sveleuchilishte, e-pages,			
			Department of Informatics, Zagreb, 2012			
		4.	Somek M., Informatics Handbook of informatics,			
			Zdravstveno sveleuchilishte, e-pages, Department of			
			Informatics, 2010			
	22.2	Additional literature				
		1.				