

1.	Subject	HEALTH ECOLOGY			
2.	Code	DA – 223			
3.	Study program:	Three-year professional studies of medical laboratory diagnostics			
4.	Conducted by	UKIM – Medical Faculty Department of Hygiene			
5.	Degree of education (first or second cycle)	First cycle			
6.	Academic year/semester	III/IV	7.	Credits	2
8.	Professor	Head of the Department: Prof. d-r Mihail Kochubovski the lessons are held by all the Department members			
9.	Prerequisite				
10.	Goals	<ul style="list-style-type: none"> • Getting acquainted with the fields of hygiene and ecology • Learn the environment's influence on the people's health • Learn the principles of safe food and proper nutrition 			
11.	Content summary:	<p>Theoretical lessons (20 lessons):</p> <ul style="list-style-type: none"> • Hygiene (definition, methods and research field) • Eco-toxicology (ecological concept of health) • Risk assessment and eco-oncology • Health ecology: air, water, soil, radiation, noise, health and ecology norms in health institutions, waste material with special attention to medical waste and regulations • Food hygiene and nutrition (food quality and safety, nutrient status assessment of population, the importance of nutrition in healthy people and particular risk population, diseases related to improper nutrition) • Principles of personal hygiene, recreation and sports from the aspect of hygiene <p>Seminars (10 lessons):</p> <ul style="list-style-type: none"> • Food ecology and hygiene: the students prepare a project together and use it in practice 			
12.	Teaching methods:	<p><i>Student activity:</i> Attending theoretical lessons, practicing skill through independent laboratory work, homework assignments, mastering a technique for summarizing and concise expression</p> <p><i>Types of examination:</i> Written checks of knowledge. Attending the exam is possible after passing the mid-term exams.</p>			
13.	Total classes:	30			
14.	Organization				
15.	Types of teaching activities	15.1	Lessons: theoretical classes	20	
		15.2	Seminars	10	
16.	Other types of activities	16.1	Practice		
		16.2	Self-supporting practice		
		16.3	Learning at home		
17.	Knowledge assessment	Points			
	17.1	Mid-term exams			
	17.2	Final exam		Written part (theoretical lessons tests)	

			Practical part: test and doing one exercise independently
	17.3		
	17.4	Active participation	
18.	Grading criterion (points/grades)	Up to 59	5 (five) F
		60-68	6 (six) E
		69-76	7 (seven) D
		77-84	8 (eight) C
		85-92	9 (nine) B
		93-100	10 (ten) A
19.	Requirements for obtaining a signature and attending the final examination	The student needs to attend the theoretical lessons and the seminars in order to attend the mid-term exam. The exam consists of multiple choice and fill in the gaps questions. The student must gain minimum points (60%) to pass the exam. 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.	
20.	Language	Macedonian/English	
21.	Method of evaluating the quality of the lessons	Students' anonymous evaluation of the subjects, the professors and collaborators who hold the lessons.	
22.	Literature:		
	22.1	Mandatory literature	
		1.	Dragan Gjorgjev, Mihail Kochubovski, Vladimir Kendrovski, Gordana Ristovska, Hygiene and health ecology. Institute of Public Health, Skopje, 2008
		2.	Dragan Gjogjev, Vladimir Kendrovski, Gordana Ristovska, Zlatanka Dimitrovska, Food Hygiene and Nutrition, Institute of Public Health, Skopje, 2008
		3.	Teodor Tulchinski, Elena Varavikova, New Public Health – introduction to 21 st century, 3 rd edition, ELSEVIER ISBN: 978-0-12-415766-8 2015
	22.2	Additional literature	