

1.	<b>Subject</b>	<b>HYGIENE</b>			
2.	<b>Code</b>	OM 225			
3.	<b>Study Program</b>	General medicine			
4.	<b>Organizing Institution ( Unit, Institute, Chair, Department)</b>	UKIM-Faculty of Medicine Cathedra of Hygiene			
5.	<b>Educational degree (first or second cycle)</b>	Integrated cycle			
6.	<b>Study year/semester</b>	Second/Fourth	7.	Number of credits	5
8.	<b>Responsible teacher</b>	Dragan Gjorgjev, MD, PhD			
9.	<b>Preconditions:</b>	None			
10.	<b>Teaching goals of the study program (competencies):</b>	<ul style="list-style-type: none"> <li>• Environmental health, health risk assessment from air pollution, drinking water and surface water pollution, environmental health aspects of school environment</li> <li>• Food safety and principles of proper nutrition of the population</li> </ul>			

11.	<p><b>Contents of the study program:</b></p> <p><b>Theoretical course:</b></p> <ul style="list-style-type: none"> <li>-Hygiene (parts and objectives of the environmental health)</li> <li>- Ecological concept of health, dose-response reaction, changes in the organism - Some aspects of eco-toxicology, risk assessment and eco-oncology</li> <li>- Environmental health</li> <li>- Factors of the environment – impact to health: physical, climate, radiation, noise - Hygiene of air</li> <li>- Environmental health aspects of drinking water and water supply</li> <li>- Environmental health aspects of surface and waste waters</li> <li>- Environmental health aspects of the soil and waste, with particular emphases on medical waste</li> <li>- Hygiene of settlements and housing</li> <li>- Environmental health aspects of school environment</li> <li>- Characteristics of the school children morbidity</li> <li>- Environmental health aspects health care institutions</li> <li>- Hygiene of food safety and nutrition of population - The basics of detotherapy</li> </ul> <p><b>Practical course:</b></p> <p>Environmental health: air pollution, methods of monitoring of air pollution and health statistics methods of monitoring of negative health effects; drinking water and monitoring of drinking water safety; ionizing radiation and health risk assessment; noise in environment, monitoring methodology and health risk assessment. - Hygiene in state of emergency: rapid detection and elimination of the risks of</p>
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	<p>different environment media</p> <ul style="list-style-type: none"> <li>- School hygiene: implementation and interpretation of questionnaire for hygiene in school environment</li> <li>- Hygiene of food safety and nutrition: methods of assessment of food safety, nutritive value of meals, methods of assessments of nutritional status and dietotherapy</li> </ul>	
12.	<b>Methods of studying:</b> Lecturing, exercises/seminars	
13.	<b>Total no. of hours:</b>	150 hours
14.	<b>Distribution of the available time</b>	<p>75 hours of lecturing, exercises and seminars</p> <p>75 hours of home learning</p>

15.	<b>Type of educational activity</b>	1	Lectures-theoretical course	30 hours
		5 · 1		
		1	Practicals (laboratory,	45 hours
		5	clinical),	
		·	seminars, team	
		2	work	
16.	<b>Other types of activities</b>	1	Project assignments	... hours
		6 · 1		
		1	Individual tasks	... hours
		6 · 2		
		1	Home studying	75 hours
		6 · 3		
17.	<b>Assessment of knowledge:</b>			
	points			
17.1	Tests			min.-max.
		3	Continuous tests	total... points
			• Environmental health	21 35
			• Food Safety and Nutrition	15 25

	Final exam	Subject: Oral integrative exam	
		exam	min.-max. Oral 15 25 points
17.2	Seminar work/project (presentation: written and oral)	Seminar works	min.-max. ... points
17.3	Active participation	Theoretical course	min.-max. points 1-5
		Practical course	points 9-15
18.	Knowledge assessment criteria: (points/grade)	up to 59 points	5 (five) F
		60 to 68 points	6 (six) E
		69 to 76 points	7 (seven) D
		77 to 84 points	8 (eight) C
		85 to 92 points	9 (nine) B
		93 to 100 points	10 (ten) A

19.	Criteria for obtaining a signature and taking the final exam	<p><b>Conditional criteria for assessment of knowledge:</b> The student must participate at the theoretical and practical courses in order to score minimum points to obtain signature. The minimum requirements for that are as follows:</p> <p>Theoretical course:</p> <p>100% presence - 5 points</p> <p>80% presence - 4 points</p> <p>60% presence - 3 points</p> <p>50% presence - 2 points</p> <p>40% presence - 1 points</p> <p>Practical course :</p> <p>Presence at 11 exercise - 15 points</p> <p>Presence at 10 exercise - 13 points</p> <p>Presence at 9 exercise - 11 points</p> <p>Presence at 8 exercises or less – the student will be reevaluated for some of the exercises he/she missed. If positively reevaluated - the student will gain 9 points.</p> <p>For the student to approach to the final exam, he/she should score min. 60% from continuous knowledge assessment.</p> <p>The final mark is formed as a sum of scores of all activities (presence at theoretical and practical course, continuous assessments and final exam)</p>
20.	Language of the course	Macedonian
21.	Method for evaluation of the quality of education	Anonymous student’s evaluation of the subject, teachers and collaborators involved in the educational activities
22.	Literature	
22.1	Mandatory textbooks	

	Author	Title	Publisher	Year
1	Wallace RB.	Public Health and Preventive Medicine	New York: McGraw-Hill	2008
2	Gjorgjev D, Kochubovski M, Kendrovski V, Ristovska G.	Hygiene and environmental health	Skopje: Faculty of Medicine	2008
3	Gjorgjev D, Kendrovski V, Ristovska G, Dimitrovska Z.	Hygiene of food safety and nutrition	Skopje: Faculty of Medicine	2008
4	Jackel JF.	Jekel's Epidemiology, Biostatistics, Preventive Medicine, Public Health, 3rd edition	Skopje: Tabernaku l	2010
22.2	Additional literature			
	Author	Title	Publisher	Year
1	Tulchinski T.	The new public health	Skopje: Studentski zbor;	2003

		2	Gjorgjev D, Kendrovski V, Tozija F.	Enviromental Health Risk Assessment Studies. In: Zaletel- Kragelj L, Bizikov J, editors. Methods and Tools in Public Health. A handbook for teachers, researchers, health professionals and decisions makers.	Lage:Hans Jacobs Publishing Company <a href="http://www.snz.hr/phsee/publications.htm">http://www.snz.hr/phsee/publications.htm</a>	2010
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