

1.	Subject	OCCUPATIONAL MEDICINE
2.	Code	OM 526
3.	Study Program	General medicine

4.	Organizing Institution (Unit, Institute, Chair, Department)	UKIM-Faculty of Medicine Cathedra of Occupational Medicine
5.	Educational degree (first or second cycle)	Integrated cycle
6.	Study year/semester	Fifth (V) year / Tenth (X) semester
7.	Број на ЕКТС кредити	2
8.	Responsible teacher	Prof. Dr Jovanka Karadzinska Bislimovska, Head of Chair * the education process is performed by all members of the Cathedra
9.	Preconditions for starting the subject	Passed first part of the professional exam Completed criteria for VII semester
10.	Teaching goals of the study program (competencies): Adoption of the knowledge, skills, and basic principles in occupational medicine, principles, and practice of health and working environment	

11.	<p>Contents of the study program:</p> <p>Theoretical course:</p> <ul style="list-style-type: none"> • Physiology and psychology of work; • Ergonomics, Ecology of work and working environment's surveillance • Physical hazards in working environment and health's effects; • Chemical hazards in working environment and health's effects; • Psychosocial factors at work and health's effects; • Biological hazards in working environment and health's effects • Occupational diseases, work-related diseases and impairments of selected organs and systems • Preventive measures, Preventive strategy <p>Practical course:</p> <ul style="list-style-type: none"> • Microclimate in working environment; workplace analysis; • Noise in working environment and hearing assessment; • Ionizing radiation, personal dosimeters, safety measures; • Lighting in working environment and sight assessment; • Air pollution in working environment; • Functional capacity assessment: cardio-respiratory system, anthropometry; • Preventive medical examinations; • Occupational diseases (case reports) • Work-related-diseases (case reports) • Pneumoconiosis and RTG classification-interpretation; • Methods and procedures in work ability assessment-practical work; • Specific occupational risks in exposed workers in different sectors and industries • Workers' Preparedness and Response to disasters • Analysis of research data and scientific publications in the field of occupational medicine 	
12.	Methods of learning: Lectures with interactive approach; Practical work, Seminars, Poster preparation and presentation	
13.	Total available amount of learning hours	60 hours
14.	Distribution of the available learning time	45 hours lectures, practical work,

		seminars, project tasks
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		15 hours home learning		
15.	Types of educational activities	15.1.	Lectures-theoretical course	24 hours
		15.2.	Practical work (laboratory, clinical), seminars	Practical work: 16 hours Seminars: 2 hours
16.	Other types of activities	16.1.	Project tasks	3 hours
		16.2.	Individual tasks	
		16.3.	Home learning	15 hours
17.	Types of knowledge assessment			

17.1	Tests	<p style="text-align: right;">min.-max.</p> <p>Continuous tests</p> <p>Continuous testing of knowledge (colloquium)</p> <p>1 written test points 15-25</p> <p>Physiology and psychology of work, Ergonomics, Workplace risk assessment and ecological monitoring, Occupational diseases, work-related diseases and injuries at work,</p> <p>Physical factors of working environment</p> <p>Final exam min. - max.</p> <p>Written exam* points 12-20</p> <p>Oral exam** points 18-30</p> <p>* Written exam - Chemical factors of working environment and health's effects, occupational toxicology, metals, gases, pesticides, organic compounds</p> <p>** Oral exam (integrative) including physical, chemical, biological, and psychosocial workplace hazards, occupational diseases, and impairments of selected organs and systems, preventive measures</p> <p>The student is obliged to have a minimum of predicted points for each part of the exam in particular, in order to enable them to be inscribed as points for the final exam. Otherwise, the exam is considered</p>
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		unsuccessful.
17.2	Seminar work/project (presentation: written/oral)	<p style="text-align: right;">min. - max.</p> Project activity (part of practical work) points 2-5

17.3	Active participation	min. - max.
		Theoretical course * 2-5
		Practical course ** 12-20

		<p>* Attendance at theoretical lectures</p> <p>51%-60% 2 points</p> <p>61%-70% 3 points</p> <p>71%-85% 4 points</p> <p>86%- 100% 5 points</p> <p>** Practical course (4 exercises with duration of 4 hours each - each exercise with 2 points)</p> <p>Attendance at practical course - exercises: 6-8 points</p> <p>Active participation in exercises: 4-7 points</p> <p>The student can be absent just once (one exercise).</p>	
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>Conditional criteria:</p> <p>In order to obtain a signature, the student is required to attend theoretical, practical courses and seminars and to score minimum points.</p> <p>The student can take the final exam if he/she has passed the continuous tests with minimum points; Additionally, he/she has to pass the continuous assessments, and then can take the complete final exam. The grade for the subject is formed according to the rating table, based on the sum of the points from all the activities, the continuous testing and the 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		
		Mandatory textbooks	
	22.1.	1. Bislimovska Karadzinska J, Minov J, Risteska-Kuc S, Mijakoski D, Stoleski S.	Occupational Medicine University "Sts. Cyril and Methodius", Skopje 2011
		2. Stikova E.	Occupational Medicine Faculty of Medicine, Skopje 2012
		3. William N Rom; Steven	Environmental and occupational medicine Wolters Kluwer/Lippincott Williams & Wilkins, 2007

					Philadelphia, USA	
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			Markowitz; Book		UCLA University, Columbia University	
		Additional literature				
	22.2.	1.	Robert B. Wallace ed, MaxeyRosenauLast	Public Health and Preventive Medicine	OEM Press Publication, Denver- New Orleans, USA	2008
		2.	Robert J. Gatchel, Izabela Z. Schultz	Handbook of Occupational Health and Wellness	Imprint: Springer, Harvard University, Boston,USA	2012