1.	Subject	**PUBLIC HEALTH - CLINICAL PRACTICE**
2.	Code	OM 624
3.	Study Program	General medicine
4.	Organizing Institution (Unit, Institute, Chair, Department)	UKIM-Faculty of Medicine Chair of Epidemiology and Biostatistics, Chair of Occupational Medicine, Chair of Social Medicine, Chair of Hygiene
5.	Educational degree (first or second cycle)	Integrated cycle
6.	Study year/semester	Sixth (VI) year / Eleventh - twelfth (XI-XII) semester
7.	Number of EKTS credits	4
8.	Responsible teachers	Prof. d-rvesna Veljic Stefanovska , Prof d-r Jovanka Karadzinska Bislimovska, Prof d-r Fimka Tozija, Prof d-r Mihail Kochubovski* the education process is performed by all members of the Cathedra
9.	Preconditions for starting the subject	Acquired credits (passed exams) from the following subjects: Social Medicine, Hygiene, Epidemiology and Biostatistics and Occupational medicine
10.	Teaching goals of the study program (competencies): Adoption of the basic principles, knowledge and practice of public health in the field of hygiene, social medicine, occupational medicine, epidemiology and biostatistics	

11.	**Contents of the study program:** **Hygiene** • Application of the basic methodological approach for eco-toxicological risks assessment • Exposure and health risk assessment from physical, chemical, biological and radiological agents in the environment • Regulations, standards and food safety monitoring • Nutrition and physical activity, public health importance through practical examples • Strategies and policies to determine priorities and risk management in the field of environmental health, nutrition and food safety **Social Medicine** • Evaluation of health, individual and community health • Health care system - organization and evaluation • Priority public health problems, risks, strategies, policies • Health promotion and disease prevention • Health Policy, Health Economics and Management: analysis

	of policies and good practice **Occupational Medicine** • Work place, work environment, professional risk - assessment of the effects of occupational exposure on the health of exposed workers • Occupational diseases, work-related diseases and injuries at work: clinical (diagnostic, therapeutic procedures) - preventive and public health aspects in practice • Work ability assessment, absence, disability, rehabilitation • Preventive Strategy - levels and measures; workplace health promotion (multidisciplinary and intersectoral approach); legislative aspects (examples and solutions in practice) • Interventional public health prevention programs (examples, analysis, recommendations) in occupational medicine **Epidemiology and Biostatistics** **Epidemiology** • Epidemiological principles, models, epidemic process, prevention measures • Epidemiological methods (descriptive, analytical, experimental) • Epidemiological features of certain communicable and non-communicable diseases **Biostatistics** • Descriptive statistical methods • Analytical methods • Vital statistics The study program will be arranged within 2 working weeks (full time 8 hours). Four courses will be organized during the XI and XII semester. Students are organized in groups consisting of 2-5 members (students) on mentor principle by the professors and assistants. During the course different departments and mentors are taking place. Student's daily activities will be registered in a separate „Diary of activities"which will be verified by a mentor's signature.

12.	**Methods of learning:** • Interactive work, work on mentor's principle, individual work, work in small groups, problem solving • Processing, reporting and case resolving of different segments of public health practice • Data analysis, computer simulation • Evaluation of the scientific literature, consulting, essays, seminar papers • Problem resolving designed seminars, discussion, public presentation			
13.	Total available amount of learning hours		120 hours	
14.	Distribution of the available learning time		80 hours practical work 40 hours home learning	
15.	Types of educational activities	15.1.	Practical work (laboratory, clinical), seminars	80 hours
16.	Other types of activities	16.1.	Home learning	40 hours
17.	Types of knowledge assessment			points
	17.1	Final exam		min. - max. Seminar work points 36 - 60
	17.2	Seminar work/project (presentation: written/oral)	Seminar work: written form + public presentation	
	17.3	Active participation		min. - max. Practical course * points 24 - 40 * The course is organized within 10 days by 8 hours (full time). Presence: 2 points; activity: 2 points The student should get a minimum 6 points of each subject of the practice (epidemiology and biostatistics, occupational medicine, social medicine, hygiene)
18.	Knowledge assessment criteria: (points/grade)	The student should obtain minimum 60 points. Student assessment is a descriptive (passed).		

19.	Criteria for obtaining a signature and taking the final exam	**Conditional criteria:** In order to obtain a signature and get access to the final exam, the student should attend the practical work and obtain minimum points. In order to get access to the final exam, the student must finis the seminar work.
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

No.	Authors	Title	Publisher	Year
1.	Robert B. Wallace ed, Maxey-Rosenau-Last	Public Health and Preventive Medicine	OEM Press Publication, Denver-New Orleans, USA Tabernakul, Skopje	2008 2011
2.	Gjorgjev D, Kochubovski M, Kendrovski V, Ristovska G.	Hygiene and environmental health	Faculty of Medicine, Skopje	2008
3.	Gjorgjev D, Kochubovski M, Kendrovski V, Ristovska G.	Food Hygiene and Nutrition	Faculty of Medicine, Skopje	2008
4.	Donev D, Spasovski M, Tozija F, Kosevska E, Gudeva-Nikovska D,	Social Medicine	Faculty of Medicine, Skopje	2012

			Kasapinov B, Kisman- Hristovska M, Lazarevik V, Simonovska V.			
		5.	Bislimovska-Karadzinska J, Minov J, Risteska-Kuc S, Mijakoski D, Stoleski S.	Occupational Medicine	University "Sts. Cyril and Methodius", Skopje	2011
		6.	Stikova E.	Occupational Medicine	Faculty of Medicine, Skopje	2012
		7.	Danilovski D, Orovchanec N, Vasilevska K, Taushanova B, Velikj-	Biostatistics	Faculty of Medicine, Skopje	2005

			Stefanovska V, Isjanovska R, Ivanovska-Zafirova B, Zdravkovska M, Pavlovska I			
		8,	Danilovski D, Orovchanec N, Vasilevska K, Taushanova B, VelikjStefanovska V, Isjanovska R, Ivanovska-Zafirova B, Zdravkovska M, Pavlovska I	General Epidemiology	Faculty of Medicine, Skopje	2007

		9.	Danilovski D, Orovchanec N, Vasilevska K, Taushanova B, VelikjStefanovska V, Isjanovska R, Ivanovska-Zafirova B, Zdravkovska M, Pavlovska I	Special Epidemiology	Faculty of Medicine, Skopje	2007
		10.	Tulchinski T, Varavikova E.	The New Public Health Introduction to 21st Century	„Studentski zbor“, Skopje	2003
	22.2.	Additional literature				
		No.	Authors	Title	Publisher	Year
		1.	Robert H. Fries, Thomas A. Sellers	Epidemiology for public Health	Academic Press, Skopje	2011
		2.	Lloyd F. Novik, Cynthia B. Morrow, Glen P. Mays	Administration of Public Health: principles for management based on population	Academic Press, Skopje	2011