Name of the course	Epidemiology with Clinical Rotation			Code	MSE605		
Type of study program:	Integrated university study program, Medicine			Year of study:	6		
Credits (ECTS):	3.0	Semester:	XI	Number of hours per semester (l+s+e)	60 (20+20+20)		
Status of the course:	obligatory	Preconditions:	According to the Rulebook	Comparative conditions:	/		
Access to course:	Sixth year stud	dents		Hours of instructions:	According to schedule		
Course teacher:	I	van Vasilj, PhD, Ful	l Professor				
Consultations:	1	As agreed with students					
E-mail address and phone number:		ivan.vasilj@fzs.sum.ba					
Associate teachers		Krunoslav Capak, PhD, Associate Professor; Kristina Bevanda, MD					
Consultations:	I	As agreed with students					
E-mail address and phone	number:						
The aims of the course:	The aims of the course are: Understanding the mechanisms of the origin, spread and distribution of diseases in the population, and ways to suppress the spread of epidemics of infectious diseases, as well as ways to fight against chronic non-infectious diseases						
Learning outcomes	After passing th	ne course the student	:				
(general and specific	Plans and d	efines epidemiologi	cal research, and	alyzes epidemiolo	gical data;		
competences):	• Evaluates t	he application of epi	demiological re	search methods;	1		
	 Solves prol mortality or 	olem tasks with basi	c measures of	frequency (incide	nce, prevalence,		
	 Analyzes the 	nu lethality),	f the enidemic i	n Bosnia and Herz	vegoving and the		
	surrounding	g area;	r the optionine r		lego vina and ale		
	• Implements	s current epidemiolo	gical measures	to control and pr	event infectious		
	and non-infectious diseases;						
	• Explains models of surveillance of infectious and mass non-infectious diseases,						
Course content	and discusses the importance of immunization.						
(Svllabus):	(L1) Basic definitions, disease models and division of epidemiology. (L2) Epidemiological methods: natural course of infectious and non-infectious						
	diseases, epidemiological variables, epidemiological research, epidemiological						
	measurements.						
	(L3) Causes of disease-risk factors: physical, chemical, biotic and psychosocial.						
	(L4) The role of persons and causative agents.						
	(L6) Prevention (primary, secondary and tertiary) of infectious and chronic non-						
	infectious diseases.						
	(L7) Epidemiology of droplet, intestinal, blood-borne diseases. Anthropozoonosis.						
	(L8) Vaccinati (L9) Military e	on. nidemiology					
	(L10) Commu	nications in epidemic	ology.				
	(L11) Hospital	infections. Naturally	y-focal infectior	18.			
	(L12) Surveilla	ance of infectious dis	seases. Chronic	non-infectious dis	eases.		
	(L13) Threater	ing infectious diseas	ses.				
	(S1) Compari	son of measurement	nts from three	or more indepe	endent samples		
	categorical dat	a analysis, numerical	l data associatio	n analysis	sumples,		
	(S2) Health sta	tistics, vital statistics	s, demographic	statistics			
	(S3) Analytica	l, experimental and r	neta-analysis				
	(S4) Types of ((S5) Enidemi	epidemiological mea	sures, frequenci	es and association	18.		
	associations an	d potential impact.	n nicedous ul	seases, measures	, or mendence,		
	(S6) Blood-bo	rne diseases, technie	ques of epidem	iological surveilla	ance of hospital		
	infections.	_			_		
	(S7) Planning	mandatory vaccination	ons, optional va	ccines, vaccinatio	ns under certain		
	(S8) DDD in it	ifectious disease sur	veillance	of vaccines.			
	associations an (S6) Blood-bo infections. (S7) Planning epidemiologica (S8) DDD in in	d potential impact. rne diseases, technio mandatory vaccinational circumstances, and an and the sease sur-	ques of epidem ons, optional va l the importance veillance	iological surveilla ccines, vaccinatio e of vaccines.	ance of hospital		

Format of instruction (mark in bold)	(S9) Intestinal infectious diseases, anth (S10) Epidemiology of infectious dise (E1) Descriptive epidemiology (E2) Calculation of incidence, prevale 		es, anthropozoo is diseases tran revalence, mor specificity, po- cical indicators he Population f prk of the epid- es	, anthropozoonosis, preventable infector diseases transmitted by insects evalence, mortality rate. pecificity, positive and negative predical indicators of health status Population from Infectious Diseases ck of the epidemiological service. s Seminars th mentor Field work			
Student responsibilities	Students are obliged to regularly attend and actively participate in all forms of classes. In the case of being prevented from attending classes, students should have proof of a justified reason						
Screening student work (mark in bold)	Class attendance	Class p	articipations	Seminar essay	Practical training		
	Oral exam	Writter	n exam	Continuous assessment	Essay		
Detailed evaluation within	a European system of p	points					
STUDENTS RESPONSIBILITIES	HOURS		PROPORTIONS OF ECTS CREDITS		PROPORTIONS OF GRADE		
Attending classes	60		2.0		10%		
Written exam	15		0.5		80%		
Oral exam	15		0.5		10%		
Total	90		3		100%		
Exam (maximum 32 points) The final exam tests key, specific competencies. The final test has 32 questions. A student who correctly solves less than 18 questions (55%) of the final test does not receive a grade higher than F. Final grade is the sum of ECTS grades achieved during classes and on the final exam, and is determined based on the absolute distribution according to the Rulebook on studying at the University of Mostar: 0 – 54% insufficient (1) 55 – 66% sufficient (2) 67 – 78% good (3) 79 – 90% very good (4) 91 – 100% excellent (5) Required literature: Gordis L. epidemiology 3 rd ed WB SANDESS Company PHILADELPHIA,2004.; Gamulin S. Clinical research clinical epidemiology. Medicinska naklada 2012.:							
	David L Heyman, MD Editor. Control of communicable diseases. American Public						
Ontional literatures	Health Association 20	522.					
Additional information about the course							

Annexes: calendar classes

The number of	TOPICS AND LITERATURE
teaching units	
Ι.	Title: Introduction to epidemiology
	Short description: History of epidemiology, definition of epidemiology, exercises
	Literature: Gordis L. epidemiology 3 rd ed WB SANDESS Company PHILADELPHIA,2004.
II.	Title: Epidemiological methods, epidemiological variables, epidemiological research
	Short description: Natural course of infectious and non-infectious diseases, epidemiological
	variables, epidemiological research
	Literature: Gamulin S. Clinical research clinical epidemiology. Medicinska naklada 2012.
III.	Title: Causes of diseases and risk factors
	Short description: Physical, chemical, bio- and psychosocial risk factors

	Literature: Gordis L. epidemiology 3 rd ed WB SANDESS Company PHILADELPHIA,2004.
IV.	Title: Selected chapters from non-infectious and infectious mass diseases
	Short description: Selected chapters from non-infectious and infectious mass diseases
	Literature: Gamulin S. Clinical research clinical epidemiology. Medicinska naklada 2012.
<i>V</i> .	Title: Prevention of disease
	Short description: Prevention (primary, secondary and tertiary) of infectious and chronic non-
	infectious diseases.
	Literature: David L Heyman, MD Editor. Control of communicable diseases. American
	Public Health Association 2022.
VI.	Title: Vaccination
	Short description: Mandatory and non-mandatory vaccination
	Literature: David L Heyman, MD Editor. Control of communicable diseases. American
	Public Health Association 2022.
VII.	Title: Vaccination which prevents diseases
	Short description: Vaccination which prevents diseases, whether non-infectious or infectious
	Literature: David L Heyman, MD Editor. Control of communicable diseases. American
	Public Health Association 2022.
VIII.	Title: Blood-borne diseases
	Short description: Epidemiology of droplet, intestinal, blood-borne diseases.
	Anthropozoonosis. Zoonosis.
11/	Literature: Gordis L. epidemiology 3 rd ed WB SANDESS Company PHILADELPHIA,2004.
<i>IX</i> .	Title: Quarantine disease and droplet infections
	Short description: Quarantine disease and droplet infections
17	Literature: Gamulin S. Clinical research clinical epidemiology. Medicinska naklada 2012.
Х.	Title: Water-borne diseases
	Short description: Infectious and non-infectious diseases in water
777	Literature: Gordis L. epidemiology 3 rd ed WB SANDESS Company PHILADELPHIA,2004.
XI.	Title: Surveillance
	Short description: Surveillance of infectious and chronic non-infectious diseases, laboratory
	support and confirmation, monitoring
VII	Literature: Gordis L. epidemiology 3 rd ed WB SANDESS Company PHILADELPHIA,2004.
XII.	Title: Clinical epidemiology, military epidemiology and molecular epidemiology
	Short description: Clinical epidemiology, military epidemiology and molecular epidemiology
VIII	Literature: Gamulin S. Clinical research clinical epidemiology. Medicinska naklada 2012.
<i>XIII</i> .	11ttle: VUIC centers
	Short description: work of vaccination centers and epidemiological services, public health
	Literatura: Camulin S. Clinical research alinical anidemiology. Madicinaka naklada 2012
	Literature. Gamunn 5. Chinear research chinear epidemiology, wedichiska haktada 2012.