

Name of the course	Medical Statistics			Code	MSE601
Type of study program:	Integrated study program, Medicine			Year of study:	6
Credits (ECTS):	1	Semester:	XI	Number of hours per semester (l+s+e)	30 (5+5+20)
Status of the course:	obligatory	Preconditions:	According to the Rulebook	Comparative conditions:	/
Access to course:	Sixth year students			Hours of instructions:	According to schedule
Course teacher:	Head: Assoc. prof. Marko Martinac, MD, PhD				
Consultations:	Mondays and Thursdays from 9 to 10 or according to the deal				
E-mail address and phone number:	marko.martinac@tel.net.ba 0038736335600				
Associate teachers					
Consultations:	Mondays and Thursdays from 9 to 10 or according to the deal				
E-mail address and phone number:	mef@sum.ba 0038736335600				
The aims of the course:	The aim of this course is to acquaint students with basic statistical principles, research methods in biomedicine, and the application of acquired knowledge in clinical practice.				
Learning outcomes (general and specific competences):	<p>After completion of the course, students will be able to:</p> <ul style="list-style-type: none"> • Search for scientific literature, apply biostatistical methods, analyze results and critically evaluate conclusions • Apply research results to patient care in terms of choosing the best diagnostic and therapeutic methods • Interpret parameters of vital statistics and recognize epidemiological problems • Interpret information about drugs and medical equipment published in journals • Interpret the sensitivity and specificity of diagnostic tests in making patient care decisions. • Evaluate and apply a critical approach to different forms of guidelines, especially in terms of recognizing whether they are based on evidence or are the result of the collective opinion of experts 				
Course content:	<p><u>Lectures:</u> Types of biomedical research Probability and related topics for making inferences about data Methods of evidence-based medicine and decision analysis</p> <p><u>Seminars:</u> Analyzing research questions about survival Statistical methods for multiple variables Survey research Reading medical literature Vital statistics parameters and probability indices</p> <p><u>Exercises:</u> Summarizing and displaying data in tables and graphs Research questions related to one group of respondents Research questions related to two separate groups Research questions related to three or more separate groups Research questions about the relationship between variables</p>				
Format of instruction (mark in bold)	Lectures	Exercises	Seminars	Independent assignments	
	Consultations	Work with mentor	Field work	Other	
Student responsibilities	Students are obliged to regularly attend and actively participate in all forms of classes. Students must complete all classes or excused absences up to the limit prescribed by the Rulebook of the School of Medicine.				
Screening student work (mark in bold)	Class attendance	Class participations	Seminar essay	Practical training	
	Oral exam	Written exam	Continuous assessment	Essay	

Detailed evaluation within a <i>European system of points</i>			
STUDENTS RESPONSIBILITIES	HOURS	PROPORTIONS OF ECTS CREDITS	PROPORTIONS OF MARK
Class attendance and participations	25	0.9	0%
Written exam	5	0.1	100%
Total	30	1	100%
<p>Further clarification: The final assessment is carried out according to the Rulebook on studying at the University of Mostar and applies to all study groups. According to the Study Regulations, the final grade is obtained as follows: A = 91-100% 5 (excellent) B = 79 to 90% 4 (very good) C = 67 to 78% 3 (good) D = 55 to 66% 2 (sufficient) F = 0 to 54% 1 (insufficient)</p>			
Required literature:	Dawson B, Trapp RG. Basic & Clinical Biostatistics. 4th ed. New York: Lange Medical Books/McGraw-Hill; 2004.		
Optional literature:	Teaching materials		
Additional information about the course	Students' responsibilities are in accordance to Rules of studying and Deontological code. Methods of monitoring the quality of teaching: <ul style="list-style-type: none"> - student survey - Quality control analysis by the students and teachers - Analysis of passing the exam - The report of the Office for the quality of teaching 		