	UNIVERSITY OF BANJA LUKA **FACULTY OF MEDICINE**				
	UNDERGRADUATE STUDIES				
	Study Programme of	**MEDICINE**			
Course Unit Name	**Medical Statistics**				
Type of Course Unit	**General Education**				
Course Unit Code	**Course Unit Status**	**Semester**	**Class Workload**	**Number of ECTS**	
TO BE DESIGNATED	COMPULSORY	IV	2L + 2P	4	
Members of Staff	Dr Ivan Soldatović, assistant professor				

Eligibility Requirements	**Form of Requirements**
	As provided by the Rules of Study at the integrated study programme of medicine.

Goals of the Course Unit

The Goals of the Course Unit Medical Statistics are for the students, future medical doctors, to acquire the skills and knowledge of present-day scientific methodology and statistics in order to understand and participate in the scientific research process, understanding scientific literature, as well as in the organization, gathering and processing data and presenting results of medical studies.

Learning Outcomes (knowledge acquired):

After mastering the theoretical and practical subject-matter in medical statistics, the students will have mastered the skills and theoretical knowledge needed for planning a study, gathering, processing and analyzing data, displaying results and reaching conclusions on an issue.

The acquired knowledge will enable the students to actively participate in scientific research, creating study protocols, defining goals and hypotheses and drafting reports, i.e. publication in line with the principles of present-day scientific research practice.

The theoretical and practical knowledge will help the students, future medical doctors, to understand the results of scientific research publications and thus further their own theoretical and practical knowledge.

Contents of the Course Unit:

Fundamentals of Medical Statistics. Basic terms in statistics. Probability and probability distribution. Sampling. Data processing. Statistical description of data. Basic set parameter evaluation and statistical conclusion. Statistical analysis. Parameter methods for difference testing. Non-parameter methods for difference testing. Testing correlation. Diagnostic accuracy.

Teaching Methods:

The classes are given in the form of lectures, practicals, midterms, office hours, and independent student work

Literature:

1. Machin, D., Campbell, M., & Walters, S. (2007). *Medical statistics : a textbook for the health sciences.* John Wiley & Sons, Ltd.
2. Petrie, A., & Sabin, C. (2020). *Medical statistics at a glance.* Wiley Blackwell.

Examination Form:

Pre-Exam Duties	**Final Exam**	**Total Points**

Attendance	**10**	**Oral / Written**	**50**	**100**
Midterm (1)	**40**			
Seminar paper	**-**			
Note for the Course Unit:				
Syllabus Designer: Dr Ivan Soldatović, assistant professor				