
	UNIVERSITY OF BANJA LUKA FACULTY OF MEDICINE				
	UNDERGRADUATE STUDIES				
	Study Programme of	MEDICINE			
Course Unit Name		Science in Medicine			
Type of Course Unit		General Education			
Course Unit Code		Course Unit Status	Semester	Class Workload	Number of ECTS
		COMPULSORY	V	1L + 1P	2
Members of Staff		Dr Miloš Stojiljković, full professor, Dr Ranko Škrbić, full professor			
Eligibility Requirements				Form of Requirements	
Course units from the previous year of study must be passed.				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 are for the students to apply the knowledge previously acquired through General Education course units and pre-clinical course units in acquiring current knowledge and practical skills on the fundamentals of scientific research in medicine. The students will get to know the concept of science and types and ways of organizing research in biomedical sciences.					
Learning Outcomes (knowledge acquired):					
Having mastered the theoretical and practical subject-matter in Sciences in Medicine and having passed the exam, the student will be able to: notice, define, describe and explain the principles of scientific research in medicine. Describe, differentiate and explain the division of scientific studies in medicine. Name and explain the significance of the control group and randomization in medical studies. Apply the acquired knowledge in searching medical databases. Use the acquired theoretical knowledge to draft presentations of scientific results. Get to know elements of scientific papers and explain their purpose.					
Contents of the Course Unit:					
Definition of the term science Deduction and induction. Types of research in medicine. Primary and secondary research. Basic and applied research. Prospective and retrospective research. Control group. Randomization. Statistical analysis in medical research. Animal studies. Types of clinical studies. Randomized double-blind clinical studies. Ways of searching medical scientific databases. Elements of scientific papers. Presentation of research results.					
Teaching Methods:					
The classes are given in the form of lectures, practicals, seminars, midterms, office hours and independent student work.					
Literature:					
1. Roth PH. Medicine as Science. The Making of Disciplinary Identity from Scientific Medicine to Biomedicine. 1st edition. Baden-Baden: Nomos; 2022. 2. Fried BJ, gaydos LM. World Health Systems: Challenges and Perspectives. 2nd edition. Chicago, IL, USA: Health Administration Press; 2012.					
Examination Form:					
Pre-Exam Duties		Final Exam		Total Points	
Attendance	10	Test	50	100	
Seminar paper	40				
Note for the Course Unit:					
Syllabus Designer: Prof. Dr Miloš Stojiljković					