
		UNIVERSITY OF EAST SARAJEVO						
		Faculty of Medicine						
		Study program: medicine						
		Integrated academic studies		I study year				
Full subject title		METHODOLOGY OF SCIENTIFIC RESEARCH						
Department		Department for general education subjects, Faculty of Medicine in Foča						
Subject code		Subject status		Semester		ECTS		
ME-02-1-006-2		compulsory		II		4		
Professor/ -s		prof. Dejan Bokonjic, PhD; prof. Srdjan Masic, PhD; prof. Natasa Milic, PhD						
Associate/ -s		Assist. Dragan Spaic; assist. Nina Rajovic						
Number of lectures/ teaching workload (per week)			Individual student workload (in hours per semester)			Coefficient of student workload $S_o$ <sup>1</sup>		
L	E	SP	L	E	SP	$S_o$		
1	3	0	1*15*1	3*45*1	0*15*1	1		
total teaching workload 1*15+3*45+0*15=60			total student workload 1*15*1+3*45*1+0*15*1=60					
Total subject workload (teaching + student): 60+60= 120 hours per semester								
Learning outcomes		1. Respecting ethical principles in scientific research 2. Application of quantitative and qualitative scientific methods 3. Constructing the survey questionnaire 4. Writing and publication of scientific work						
General competences		They have adopted attitudes concerning medical ethics. They are acquainted with methodology of scientific research. They are capable of acting in accordance with rational and scientific concepts and principles. They are eager to collaborate with other medical professionals.						
Preconditions		No preconditions for listening the subject and taking the exam						
Teaching methods		lectures, exercises						
Subject content per week		<b>Lectures:</b> 1. Science, research work and its importance. 2. Ethics in scientific research. 3. Types of research. 4. Quantitative research. 5. Good clinical practice. Clinical experiment. 6. Qualitative research. 7. Data collection and measurement. Constructing questionnaires. 8. Types of scientific work. Authors and how to get it. 9. The structure of original scientific work and how to write it. Types of abstract. 10. How to write an introduction and method of original scientific work. 11. How to write the results and discussion of scientific work. 12. How to cite the used literature. Vancouver and Harvard-style of referencing. 13. Presentation of work (oral / poster). 14. Critical reading in medicine. 15 Evidence-based medicine. <b>Exercises:</b> 1. Quantitative research (descriptive epidemiological studies, cross-sectional studies). 2. Quantitative research (case studies and control). 3. Quantitative research (cohort studies). 4. Quantitative research (experimental studies). 5. Qualitative research (focus group, interview). 6. Data collection. 7. Constructing the questionnaire. 8. The structure of original scientific work and how to write it. Types of abstract and writing. 9. How to write an introduction to original scientific work. 10. How to write a method of original scientific work. 11. How to write the results and discussion of scientific work.						

<sup>1</sup> Coefficient of student workload  $S_o$  is calculated as it follows:

a) for the study programs not going through the licencing process:  $S_o = (\text{total workload in semester for all subjects } 900 \text{ hrs} - \text{total teaching workload } L+E \text{ in semester for all the subjects } 870 \text{ hrs}) / \text{total teaching workload } L+E \text{ in semester for all the subjects } \text{ hrs} = \text{ }.$  Consult form content and its explanation.

b) for the study programs going through the licencing process, it is necessary to use form content and its explanation.

	12. Vancouver style of referencing. 13. Harvard style of referencing. 14. How to write a review. 15. Oral presentation of written work.			
Compulsory literature				
Author/s	Publication title, Publisher	Year	Pages (from-to)	
Savic, J.	Metodologija naucnog saznanja I: Kako stvoriti naucno djelo u biomedicini 2. izdanje. Beograd: Data status	20013.	3-291	
Jankovic, S., Mijovic, B. Bojanic, J., Jandric, Lj.	Epidemiologija, Banja Luka: Medicinski fakultet Foca: Medicinski fakultet	2015	39-66	
Additional literature				
Author/s	Publication title, Publisher	Year	Pages (from-to)	
Student responsibilities, types of student assessment and grading	Grading policy		Points	Percentage
	Pre-exam activities			
	lecture/exercise attendance		10	10%
	case study – group work		20	20%
	practical work		20	20%
	Final exam			
	test		50	50%
TOTAL		100	100 %	
Certification date	June 17th 2024			