
	<b>UNIVERSITY OF EAST SARAJEVO</b> Faculty of Medicine					
	<b>Study program: medicine</b>					
	Integrated academic studies		I study year			
<b>Full subject title</b>		METHODODOLOGY OF SCIENTIFIC RESEARCH				
<b>Department</b>		Department for general education subjects, Faculty of Medicine in Foča				
<b>Subject code</b>		<b>Subject status</b>	<b>Semester</b>	<b>ECTS</b>		
ME-01-1-006-2		compulsory	II	4		
<b>Professor/ -s</b>		Full professor Dejan Bokonjić MD, PhD, assistant professor Srđan Mašić PhD				
<b>Associate/ -s</b>						
<b>Number of lectures/ teaching workload (per week)</b>			<b>Individual student workload (in hours per semester)</b>		<b>Coefficient of student workload S<sub>0</sub><sup>1</sup></b>	
<b>L</b>	<b>E</b>	<b>SP</b>	<b>L</b>	<b>E</b>	<b>SP</b>	<b>S<sub>0</sub></b>
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						
<b>Learning outcomes</b>		<ol style="list-style-type: none"> <li>1. Respecting ethical principles in scientific research</li> <li>2. Application of quantitative and qualitative scientific methods</li> <li>3. Constructing the survey questionnaire</li> <li>4. Writing and publication of scientific work</li> </ol>				
<b>Preconditions</b>		No preconditions for listening the subject and taking the exam				
<b>Teaching methods</b>		lectures, exercises				
<b>Subject content per week</b>		<p><b>Lectures:</b></p> <ol style="list-style-type: none"> <li>1. Science, research work and its importance.</li> <li>2. Ethics in scientific research.</li> <li>3. Types of research.</li> <li>4. Quantitative research.</li> <li>5. Good clinical practice. Clinical experiment.</li> <li>6. Qualitative research.</li> <li>7. Data collection and measurement. Constructing questionnaires.</li> <li>8. Types of scientific work. Authors and how to get it.</li> <li>9. The structure of original scientific work and how to write it. Types of abstract.</li> <li>10. How to write an introduction and method of original scientific work.</li> <li>11. How to write the results and discussion of scientific work.</li> <li>12. How to cite the used literature. Vancouver and Harvard-style of referencing.</li> <li>13. Presentation of work (oral / poster).</li> <li>14. Critical reading in medicine.</li> <li>15. Evidence-based medicine.</li> </ol> <p><b>Exercises:</b></p> <ol style="list-style-type: none"> <li>1. Quantitative research (descriptive epidemiological studies, cross-sectional studies).</li> <li>2. Quantitative research (case studies and control).</li> <li>3. Quantitative research (cohort studies).</li> <li>4. Quantitative research (experimental studies).</li> <li>5. Qualitative research (focus group, interview).</li> <li>6. Data collection.</li> <li>7. Constructing the questionnaire.</li> <li>8. The structure of original scientific work and how to write it. Types of abstract and writing.</li> <li>9. How to write an introduction to original scientific work.</li> <li>10. How to write a method of original scientific work.</li> <li>11. How to write the results and discussion of scientific work.</li> <li>12. Vancouver style of referencing.</li> <li>13. Harvard style of referencing.</li> </ol>				

<sup>1</sup>Coefficient of student workload S<sub>0</sub> is calculated as it follows:

a) for the study programs not going through the licencing process: S<sub>0</sub> = (total workload in semester for all subjects 900 hrs – total teaching workload L+E in semester for all the subjects 870 hrs)/ total teaching workload L+E in semester for all the subjects \_\_\_\_ hrs = \_\_\_\_\_. 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.

	14. How to write a review.			
	15. Oral presentation of written work.			
<b>Compulsory literature</b>				
<b>Author/s</b>	<b>Publication title, Publisher</b>	<b>Year</b>	<b>Pages (from-to)</b>	
Savic, J.	Metodologija naučnog saznanja I: Kako stvoriti naučno djelo u biomedicini 2. izdanje. Beograd: Data status	20013.	3-291	
<b>Additional literature</b>				
<b>Author/s</b>	<b>Publication title, Publisher</b>	<b>Year</b>	<b>Pages (from-to)</b>	
<b>Student responsibilities, types of student assessment and grading</b>	<b>Grading policy</b>		<b>Points</b>	<b>Percentage</b>
	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 %	
<b>Certification date</b>	December 13 th 2018			