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|  | | | **UNIVERSITY OF EAST SARAJEVO**  Faculty of Medicine | | | | | | | | | | | Description: logo | | | |
| ***Study program: Nursing*** | | | | | | | | | | |
| I study cycle | | | | | | IV study year | | | | |
| **Full subject title** | | | METHODOLOGY OF SCIENTIFIC RESEARCH | | | | | | | | | | | | | | |
| **Department** | | | Department for general education subjects, Faculty of Medicine Foča | | | | | | | | | | | | | | |
| **Subject code** | | | | | | **Subject status** | | | | | **Semester** | | | **ECTS** | | | |
|
| NU-05-1-045-7 | | | | | | compulsory | | | | | VII | | | 6 | | | |
| **Professor/ -s** | | Full professor Biljana Mijović, full professor Darija Kisić | | | | | | | | | | | | | | | |
| **Associate/ -s** | | Full professor Biljana Mijović, full professor Darija Kisić | | | | | | | | | | | | | | | |
| **Number of lectures/ teaching workload (per week)** | | | | | | | **Individual student workload (in hours per semester)** | | | | | | | | **Coefficient of student workload So[[1]](#footnote-1)** | | |
| **L** | **E** | | | | **SP** | | **L** | | | **E** | | **SP** | | | **So** | | |
| 2 | 2 | | | | 0 | | 60 | | | 60 | | 0 | | | 2 | | |
| total teaching workload (in hours, per semester)  30+30+0=60 | | | | | | | | total student workload (in hours, per semester)  60+ 60+0=120 | | | | | | | | | |
| Total subject workload (teaching + student): 60+120= 180 hours per semester | | | | | | | | | | | | | | | | | |
| **Learning outcomes** | | Upon completion of the teaching process for this subject:   1. The student is familiar with the importance of scientific research and is ready to participate in scientific research projects/writing papers with the support and supervision of the project coordinator/mentor. 2. The student is capable of designing and conducting scientific research independently or as part of a team of experts. 3. The student is able to communicate relevant scientific conclusions based on the conducted research. 4. The student can, based on the obtained conclusions, propose measures to reduce risk factors for the occurrence of diseases. | | | | | | | | | | | | | | | |
| **Preconditions** | | No preconditions | | | | | | | | | | | | | | | |
| **Teaching methods** | | Lectures, exercises, seminar, colloquium | | | | | | | | | | | | | | | |
| **Subject content per week** | | **Lectures:**   1. Science, Scientific Research, and Its Importance 2. Scientific Information and Communication 3. Ethics in Scientific Research 4. Types of Research and Their Application in Biomedical Sciences and Public Health 5. Quantitative Research (Observational Studies) 6. Quantitative Research (Experimental Studies) 7. Qualitative Research 8. Research Planning 9. Data Collection and Measurement. Data Processing, Interpretation of Results 10. Presentation (Communication of Data) of Scientific Research 11. Scientific Publications. Types 12. Structure of an Original Scientific Paper and How to Write It 13. Publication of Research (Preparation and Submission of Manuscripts, Response to Reviewers) 14. Evidence-Based Medicine 15. Scientific Research Projects   **Exercises:**   1. Ethics in Scientific Research - Case Studies 2. Examples of Observational Studies and Their Analysis 3. Examples of Experimental Studies and Their Analysis. 4. Examples of Qualitative Research and Their Analysis 5. Forming Teams (maximum 5 students per team) and Planning Research. Topic Selection 6. Searching Literature Related to the Chosen Research Topic 7. Creating a Questionnaire for the Planned Research 8. Instructions for Surveying Participants. Surveying 9. Creating a Database and Entering Data Collected from the Survey 10. Statistical Data Processing and Interpretation 11. Presentation of Research Results (Creating Tables and Graphs and Describing Them) 12. Writing the Introduction and Methods Section 13. Writing the Discussion and Conclusions Section 14. Writing the Abstract (Summary) of the Paper. Types of Abstracts 15. Presenting the Conducted Research. | | | | | | | | | | | | | | | |
| **Compulsory literature** | | | | | | | | | | | | | | | | | |
| **Author/s** | | | | **Publication title/Publisher** | | | | | | | | | **Year** | | **Pages (from-to)** | | |
| Ranjit Kumar | | | | Research Methodology: A Step-by-Step Guide for Beginners | | | | | | | | | 2014. | |  | | |
|  | | | |  | | | | | | | | |  | |  | | |
| **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% | |
| seminar paper | | | | | | | | | | | 20 | | | 20% | |
| colloquium | | | | | | | | | | | 20 | | | 20% | |
| Final exam | | | | | | | | | | | | | | | |
| written exam | | | | | | | | | | | 50 | | | 50% | |
| TOTAL | | | | | | | | | | | 100 | | | 100 % | |
| **Certification date** | | December 2024. | | | | | | | | | | | | | | | |

1. Coefficient of student workload So is calculated as it follows:

   а) for the study programs not going through the licencing process: So = (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. [↑](#footnote-ref-1)