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|  | | | **UNIVERSITY OF EAST SARAJEVO**  Faculty of Medicine | | | | | | | | | | |  | | |
| ***Study program:medicine*** | | | | | | | | | | |
| Integrated academic studies | | | | | | II study year | | | | |
| **Full subject title** | | | POSSIBILITY OF THE USE OF BACTERIA IN PRACTICAL PURPOSES | | | | | | | | | | | | | |
| **Department** | | | Department of Propedeutics, Faculty of Medicine in Foca | | | | | | | | | | | | | |
| **Subject code** | | | | | | **Subject status** | | | | | **Semester** | | | **ECTS** | | |
|
| ME-01-2-020-3 | | | | | | elective | | | | | III | | | 1 | | |
| **Professor/ -s** | | Full professor. Nebojsa Arsenijevic,MD PhD; associate. professor. Ivan Jovanovic, MD, PhD ; assistant professor Ružica Lukić MD PhD | | | | | | | | | | | | | | |
| **Associate/ -s** | |  | | | | | | | | | | | | | | |
| **Number of lectures/ teaching workload (per week)** | | | | | | | **Individual student workload (in hours per semester)** | | | | | | | | **Coefficient of student workload So[[1]](#footnote-2)** | |
| **L** | **E** | | | | **SP** | | **L** | | | **E** | | **SP** | | | **So** | |
| 1 | 0 | | | | 0 | | 1\*15\*1 | | | 0\*15\*1 | | 0\*15\*1 | | | 1 | |
| total teaching workload (in hours, per semester)  1\*15 + 0\*15 + 0\*15 = 15 | | | | | | | | total student workload (in hours, per semester)  1\*15\*1 + 0\*15\*1+ 0\*15\*1 =15 | | | | | | | | |
| Total subject workload (teaching + student): 15 + 15 = 30 hours per semester | | | | | | | | | | | | | | | | |
| **Learning outcomes** | | By mastering this subject, students will be provided with a comprehensive overview  1. The use of bacteria in medicine  2. The use of bacteria in the pharmaceutical industry  3. The use of bacteria in food production  4. The use of bacteria as a biological weapon | | | | | | | | | | | | | | |
| **Preconditions** | | Precondition for taking the exam: all year I exams passed | | | | | | | | | | | | | | |
| **Teaching methods** | | Lectures, work with mentors, presentations, discussions | | | | | | | | | | | | | | |
| **Subject content per week** | | **Lectures:**  1. Prokaryotes: a high-capacity biological resource  2. Prokaryotes: a high-capacity biological resource  3. Bioremediation projects  4. Bioremediation projects  5. Soil bacteria  6. Soil bacteria  7. The use of bacteria in medicine  8. The use of bacteria in medicine  9. The use of bacteria in the treatment of diseases  10. The use of bacteria in the treatment of diseases  11. The use of bacteria in the pharmaceutical industry and cosmetology  12. The use of bacteria in the pharmaceutical industry and cosmetology  13. Probiotics  14. The use of bacteria in food production  15. Bacteria as biological weapon | | | | | | | | | | | | | | |
| **Compulsory literature** | | | | | | | | | | | | | | | | |
| **Author/s** | | | | **Publication title, Publisher** | | | | | | | | | **Year** | | **Pages (from-to)** | |
| N.Cary Engleberg: | | | | Schaechter's Mechanisms of Microbial Disease.Walters Kluwer, | | | | | | | | | 2012 | |  | |
| Abul K.Abbas,Andrew H.Lichtman,Shiv Pillai | | | | Basic Immunology.Elsevier, | | | | | | | | | 2019 | |  | |
| **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 attendance | | | | | | | | | | | | 10 | | 10% |
| seminar paper | | | | | | | | | | | | 40 | | 40% |
| Final exam | | | | | | | | | | | | | | |
| Written test | | | | | | | | | | | | 50 | | 50% |
| Total | | | | | | | | | | | | 100 | | 100 % |
| **Certification date** | | December 13 th 2018 | | | | | | | | | | | | | | |

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

   а) for the study programs not going through the licensing process: So = (total workload in semester for all the 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 licensing process, it is necessary to use form content and its explanation. [↑](#footnote-ref-2)