

Name of the subject: SELECTED TOPICS IN BACTERIOLOGY		
Teacher(s): Dr. Petar Knežević		
Status of the subject: Elective		
Number of ECTS points: 15		
Condition: -		
Goal of the subject The objective of the course is to acquire a high level of knowledge in the field of bacteriology, primarily in the field of student's interest or in connection with her/his doctoral dissertation. The goal is also to enable the student for independent scientific-research work through study research (seminar paper) in the field of bacteriology.		
Outcome of the subject After the course, the student will be able to engage in scientific research in the field of bacteriology, and will be able to define the problem, select adequate literature and methods for solving the problem, process the results and draw valid conclusions.		
Content of the subject <i>Theoretical lectures</i> Required topics: Ultrastructure of bacteria. Overview of bacterial metabolic pathways. Intercellular communication. Genetics and genomics of bacteria. Classical and modern methods in bacteriology. Bacterial taxonomy and diversity. Selected Topics: Selection by candidate and teacher arrangement. <i>Practical lectures</i> -		
Recommended literature Basic literature: Madigan, M.T., Mrtinko, J.M., Bender, K.S., Buckley, D.S., Stahl, D.A., Brock, T. Brock Biology of Microorganisms. 14th Edition, Pearson, 2014. Additional literature in agreement between student and subject teacher, in accordance with study research work.		
Number of active classes	Theory: 5	Practice: 5
Methods of delivering lectures Presentations, consultations and individual work		
Evaluation of knowledge (maximum number of points 100) Oral exam: 50 Study research: 50		