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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Sciences and Mathematics |
| **GENERAL INFORMATION** |
| Study program  | Biology |
| Study Module (if applicable) |  |
| Course title | Medical microbiology |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | Second |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Dr Zorica Stojanović-Radić |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [x] Laboratory work [ ]  Project work [x]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Students will be introduced to viruses, bacteria, fungi and parasites of medical importance and with the basic principles of antimicrobial chemotherapy. Also, they will be able to apply this knowledge in control of the human infectious diseases.Outcome of the course will be obtained neccessary knowledge about pathogenic microorganisms, ability to recognise, isolate and identify the most common causative agents of infectious diseases, and basic ability to control them using antimicrobial therapy.  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| History of medical microbiology and antimicrobial control. Normal microbial flora of human organism. Host-parasite interactions and virulence factors. Gram positive bacteria of medical importance – cocci and bacilli. Gram negative bacteria of medical importance. Basic elements and principles of antimicrobial chemotherapy. Effect of antimicrobial drugs to human organism – toxicity, allergic reactions and immunity supression. Basic groups of antimicrobial agents (synthetic antimicrobial drugs, fungicides, antiviral drugs and antiparasitic drugs). Mechanisms of microbial resistance. |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [x]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[ ] Serbian with English mentoring [ ] Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **10** | **Written examination** | **30** |
| **Practical teaching** | **20** | **Oral examination** | **40** |
| **Teaching colloquia** | **0** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |