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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Medicine |
| **GENERAL INFORMATION** |
| Study program  | **INTEGRATED ACADEMIC STUDIES OF PHARMACY**  |
| Study Module (if applicable) |  |
| Course title | **MICROBIOLOGY AND BASICS OF IMMUNOLOGY**  |
| Level of study | x☐Bachelor x ☐ Master’s ☐ Doctoral |
| Type of course | x ☐ Obligatory ☐ Elective |
| Semester  |  ☐ Autumn x ☐Spring |
| Year of study  |  II |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Dean of the Faculty full professor Dobrila Stanković-DjordjevićFull professor Branislava KocićFull professor Suzana OtaševićAssociate professor Gordana RandjelovićAssociate professor Marina DinićAssociate professor Biljana Miljković-SelimovićAssistant professor Predrag StojanovićTeaching fellow Milena Bogdanović  |
| Teaching mode | X ☐Lectures X☐Group tutorials X ☐ Individual tutorials X ☐Laboratory work ☐ Project work X ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| The goal of this course is to acquire knowledge of biological characteristics, pathogenicity factors and pathogenesis of infections caused by bacteria, parasites, fungi and viruses, the mechanisms of antimicrobial drugs action as well as the mechanisms of resistance to used preparation. In addition, epidemiological and microbiological characteristics of agents, specific preventive measures, immunoprophilaxsis and chemioprophilaxs with basic terms of immunology. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| General, special bacteriology (Gram positive cocci: genus *Staphylococcus*, genus *Streptococcus*. Gram negative cocci: genus *Neisseria*; Gram positive asporogenous bacilli: genus *Corynebacterium*, genus *Mycobacterium*. Gram positive sporogenous bacilli: genus *Bacillus* , genus *Clostridium*. Gram negative facultatively anaerobic bacilli: genus *Esherichia*,genus *Shigella*, genus *Salmonella*, genus *Yersinia*, genus *Vibrio*, genus *Campylobacter*, genus *Haemophilus*. Spirochetae: genus *Treponema*, genus *Borrelia*, genus *Leptospira*. Genus *Chlamydia*, genus *Mycoplasma*), diagnostic procedure in recognizing a possible bacteria-cause of infective disease with interpretation of results *in vitro* antimicrobial susceptibility testing with aim for rational application of antibiotics and chemotherapeuticals in therapy of infective diseases (Antibiotics, antimycotics, and chemotherapeutics – mechanisms of action and resistance). Special protozoology and helmintology which summarizes the most medical important parasitic infection with their biology, life-cicle, diagnostic and actual epidemiology. Medical mycology (superficial and invasive fungal infection), antifungals, contemporary strategy in diagnostics of mycoses. General and special virology (DNA viruses: *Papovaviridae*, *Herpesviridae*, *Poxviridae*, *Hepadnaviridae*. RNA viruses: *Picornaviridae*, *Togaviridae*, *Orthomyxoviridae*, *Rhabdaviridae*. *Retroviridae*).  |
| **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** | **0-7** | **Written examination** | **0-10** |
| **Practical teaching** | **0-13** | **Oral examination** | **37- 50** |
| **Teaching colloquia** | **0-20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |