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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Sciences and Mathematics | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | **Chemistry** | | |
| Study Module (if applicable) | | | | - | | |
| Course title | | | | Pharmaceutical chemistry | | |
| Level of study | | | | X Bachelor ☐ Master’s ☐ Doctoral | | |
| Type of course | | | | ☐ Obligatory X Elective | | |
| Semester | | | | ☐ Autumn X Spring | | |
| Year of study | | | | third | | |
| Number of ECTS allocated | | | | 5 | | |
| Name of lecturer/lecturers | | | | Aleksandra S. Đorđević | | |
| Teaching mode | | | | X Lectures ☐Group tutorials ☐ Individual tutorials  X Laboratory work ☐ Project work ☐ Seminar  ☐Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *The aim of the course is to introduce the classification, nomenclature, physical and chemical properties of pharmacologically active molecules and reactivity of their functional groups.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| **Lectures:**  **Pharmaceutical chemistry (introduction, definition, origin, classification of drugs and design of pharmacologically active substances). Functional groups and nomenclature of drugs. Structure-activity relationship of drugs. Bioisosteres. Solubility of lipophilic drugs. Drugs and biological systems. Analgesics. Antibiotics, penicillins. Cephalosporins. Aminoglycoside antibiotics. Macrolide antibiotics. Tetracyclines. Peptide antibiotics. Antiviral drugs. Antihistamines.** | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| X Serbian (complete course) ☐ 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** | **0-5** | | **Written examination** | | | **-** |
| **Practical teaching** | **0-5** | | **Oral examination** | | | **0-10** |
| **Teaching colloquia** | **(0-40) x 2** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |