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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** |