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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 | | | | Basics of Pharmaceutical Chemistry and Pharmaceutical Chemistry of Inorganic Compounds | | |
| Level of study | | | | Bachelor  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | II | | |
| Number of ECTS allocated | | | | 4 | | |
| Name of lecturer/lecturers | | | | Assoc. Prof. Dr. Andrija Šmelcerović, Assist. Prof. Dr. Jelena Živković | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  Laboratory work  Project work  Seminar  Distance learning  Blended learning  Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *Upon completion of the course, students should be able to:*  *- understand basic mechanisms of action of drugs;*  *- analyze the relationship of structure with physical-chemical properties of medicinal substances;*  *- use the acquired theoretical and practical knowledge about medicinal inorganic compounds.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| **Introduction to pharmaceutical chemistry.**  **Physical-chemical properties of drugs related to their biological action.**  **Isosteres.**  **Metabolism of drugs.**  **Target places of drugs.**  **Agonists, antagonists, and partial agonists.**  **Prodrugs.**  **Basic principles of quantitative relationship of structure and activity of pharmacologically active compounds.**  **Inorganic medicinal compounds.**  **Practical knowledge and skills related to identification and synthesis of inorganic medicinal compounds.** | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| 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** | **10** | | **Written examination** | | | **70** |
| **Practical teaching** | **20** | | **Oral examination** | | | **Elective** |
| **Teaching colloquia** | **0** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |