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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 | Analysis of Phenolic Compounds in Natural Products |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | IV |
| Number of ECTS allocated | 3 |
| Name of lecturer/lecturers | Assist. Prof. Dr. Jelena Živković |
| 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)** |
| *Upon completion of the exam, students are expected to:**- present valid analysis of the relationships between the structure, properties, action and selectivity of pharmacologically active substances isolated from herbal natural products;**- use the acquired knowledge of organic compounds of therapeutic relevance;**- present valid analysis of basic mechanisms of action and relationships between the chemical structure and biological activity of pharmacologically active substances;**- use analytical methods in qualitative and quantitative determination of content of different substances in prepared material.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Basic knowledge about phenolic compounds from the point of view of organic chemistry, biochemistry, secondary metabolism, chemistry and biochemistry of phenolic compounds, and their role in natural environment.****Basic knowledge about isolation, purification and synthesis of different phenolic compounds, with significant biological activity.****Updated knowledge about medical research of phenolic compounds.****Understanding of the basic principles of action, as well as the relationships between chemical structure and biological activity of biologically active phenolic compounds.** |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [x]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[x] Serbian with English mentoring [ ] Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **5** | **Written examination** | **47.5** |
| **Practical teaching** | **0** | **Oral examination** | **Elective** |
| **Teaching colloquia** | **47.5** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |