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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 | Isolation and Synthesis of Secondary Metabolites  |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | III |
| Number of ECTS allocated | 2 |
| Name of lecturer/lecturers | Assoc. Prof. Dr. Andrija Šmelcerović |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [x] Laboratory work [ ]  Project work [x]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Upon successful passing of the exam, students should have gained good knowledge of the basic principles of isolation and synthesis of secondary metabolites.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Extraction of secondary metabolites from plants.****Production of secondary metabolites by fermentation of microorganisms.****Isolation of secondary metabolites.****Synthesis of secondary metabolites.****Enzymatic and chemical modification of secondary metabolites.** |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [x]  English (complete course) [x]  Other German (complete course)[x] Serbian with English mentoring [x] Serbian with other mentoring German |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **5** | **Written examination** | **60** |
| **Practical teaching** | **0** | **Oral examination** | **Elective** |
| **Teaching colloquia** | **35 (Seminar)** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |