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| **Study program** Master Studies Chemistry |
| **Course title** Phytochemistry (X213C) |
| **Name of lecturer/lecturers** Snežana Č. Jovanović |
| **Type of course** Elective |
| **Number of ECTS allocated** 5 |
| **Course objectives**Obtaining theoretical and practical knowledge about the structure, biosynthesis and application of secondary metabolites. |
| **Course outcomes**Having finished this course successfully, a student will be able to recognize and describe biosynthetic pathways and active principles in the complex structure of secondary metabolites. |
| **SYLLABUS***Lectures*Introduction: concept, division, biosynthesis and biological role of secondary plant metabolites. Structure, physical and chemical properties, pharmacological activity and application: heterosides and saponosides. Structure, physical-chemical properties, pharmacological activity and application of tannins and terpenoids.*Laboratory work* Isolation of secondary metabolites of plants and determination of their chemical composition. |
| **References**1. N. Kovačević, Osnovi farmakognozije, Srpska školska knjiga, Belgrade, 2000.2. B. L J. Milić, Terpeni, University of Novi Sad, Faculty of Technology Novi Sad, 1998.3. M. Gorunović, P. Lukić, Farmakognozija, Belgrade, 2001. |
| **Active teaching classes** | **Lectures**  30 | **Laboratory work**  15 |
| **Teaching mode**Interactive lectures, experimental work, seminar papers. |
| **ASSESSMENT METHODS AND CRITERIA (Max 100 points)** |
| **Pre exam duties** | **Points** | **Final exam**  | **Points** |
| Activity during lectures | 5 | Written examination | 40 |
| Practical teaching | 15 | Oral examination | - |
| Teaching colloquia | 30 |  |  |
| Seminar | 10 |  |  |