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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 |  | |  |