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| **Study program:** Doctoral academic studies **-** Chemistry |
| **Course title:** Isolation of Secondary Metabolites (H301C) |
| **Name of lecturer/lecturers:** Gordana S. Stojanović, Aleksandra S. Đorđević |
| **Type of course:** elective |
| **Number of ECTS allocated:** 10 |
| **Course objectives**Acquiring knowledge about the screening of plant material for appropriate groups of secondary metabolites, about selection and methods for isolation the target group of secondary metabolites. |
| **Course outcomes** After completing this course, the student will be able to apply the acquired knowledge to select appropriate methods and isolate the target group of secondary metabolites. |
| **SYLLABUS***Lectures*Definition, classification and importance of secondary metabolites. Criteria for selecting sources of secondary metabolites. The goal of isolation. Initial extractions and sample concentration. Locating any activity. Choosing separation methods. Separation. Crystallization and other final purification methods. Obtaining larger quantities of natural products. |
| **References**1. J. Walker (ed.), Methods in Biotechnology: R. Cannell (ed.,), Natural Products Isolation, Humana press, Totowa, New Jersey, 1998.  |
| **Active teaching classes** | **Lectures:** 105 | **Laboratory work:** / |
| **Teaching mode:** presentation of the lecture in PowerPoint, involving students in the discussion, consultation |
| **ASSESSMENT METHODS AND CRITERIA (Max 100 points)** |
| activity during lectures - 5 points; colloquiums - 60 points; written exam - 35 points |