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| **Study program** Chemistry |
| **Course title** Experimental organic chemistry |
| **Name of lecturer/lecturers** Aleksandra S. Đorđević |
| **Type of course** Obligatory |
| **Number of ECTS allocated** 4 |
| **Course objectives**The aim of the course is to learn basics of safe work and basic experimental techniques that are used in organic chemistry laboratories. |
| **Course outcomes**Upon successful completion of this course, the student is able to:- works independently in the organic chemistry laboratory,- choose appropriate work techniques (filtration, distillation, crystallization, sublimation, extractions and chromatography) depending on the given problems. |
| **SYLLABUS***Lectures*Experimental techniques used in organic chemistry laboratories in theory. Filtration techniques. Distillations (distillation, fractional distillation, steam distillation, reduced pressure and short-path distillation). Extractions techniques. Crystallization. Sublimation. Drying of liquids and solutions of organic compounds. Chromatography (thin layer, on columns, high performance gas and liquid chromatography). Separation of mixtures.*Laboratory work*Filtration techniques. Distillations.Extractions Crystallization. Sublimation. Liquid drying i solutions of organic compounds. Chromatography (thin layer and on a column). Separation of mixtures. Demonstration of mixture analysis on gas chromatograph and HPLC chromatograph. |
| **References**Ž. Čeković, Esperimentalna organska hemija, Hemijski fakultet, Univerzitet u Beogradu, 1995.B. Bastić, M. Piletić, Praktikum organske hemije, 1. deo, Tehnološko-metalurški fakultet, Univerzitet u Beogradu, 1983.Vogel's Textbook of Practical Organic Chemistry, Longman, London 1978. |
| **Active teaching classes** | **Lectures** 15 | **Laboratory work** 60 |
| **Teaching mode** lectures, experimental work, consultations |
| **ASSESSMENT METHODS AND CRITERIA (Max 100 points)** |
| **Pre exam duties** | **Points** | **Final exam**  | **Points** |
| Activity during lectures | 5 | Written examination | 40 |
| Practical teaching | 5 | Oral examination | 10 |
| Teaching colloquia | 40 |  |  |
| Seminar |  |  |  |