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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 |  |  | |  |