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| **Study program** Chemistry |
| **Course title** Semi-micro qualitative chemical analysis |
| **Name of lecturer/lecturers** Milan B. Stojković |
| **Type of course** Elective |
| **Number of ECTS allocated** 4 |
| **Course objectives**Upgrading the knowledge in qualitative analysis. Acquiring new knowledge from semi-micro analysis samples. Ability to perform qualitative analysis of rare cations and anions. |
| **Course outcomes**Student is able to:- performs semi-micro quantitative analysis in the laboratory-interprets the obtained results- apply acquired knowledge in other fields of chemistry |
| **SYLLABUS***Lectures*Introduction to semi-micro qualitative analysis. Identification of cations at the semimicro level. Identification of anions at the semi-micro level. Identification of rare anions. Identification of rare cations. Separation of cations byanalytical groups at the semi-micro level. Systematic analysis at the semi-micro level. Identification reactions using organic reagents. Analysis in the flame. Spot test analysis. Limit of detection. Laboratory equipment and techniques when performing semi-micro analysis.*Laboratory work*Qualitative analysis of semi-micro quantities of cations. Qualitative analysis of semi-micro quantities of anions. Analysis of metals in flame. Spot test analysis. Systematic analysis at the semi-micro level |
| **References**Momir S. Jovanović, Kvalitativna hemijska analiza, Naučna knjiga, 1982G. Svehla, Vogel’s textbook of macro and semimicro qualitative analysis, 5th edition, 1979.Ervin Jungeries, Spot test analysis, 1985. |
| **Active teaching classes** | **Lectures** 30 | **Laboratory work** 15 |
| **Teaching mode** lectures, laboratory work |
| **ASSESSMENT METHODS AND CRITERIA (Max 100 points)** |
| **Pre exam duties** | **Points** | **Final exam**  | **Points** |
| Activity during lectures | 10 | Written examination | 30 |
| Practical teaching | 30 | Oral examination |  |
| Teaching colloquia | 30 |  |  |
| Seminar |  |  |  |