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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | |  | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Undergraduate: Chemistry | | |
| Study Module (if applicable) | | | |  | | |
| Course title | | | | Analitical Chemistry 2 | | |
| Level of study | | | | Bachelor  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | second | | |
| Number of ECTS allocated | | | | 6 | | |
| Name of lecturer/lecturers | | | | Violeta Mitić | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  Laboratory work  Project work  Seminar  Distance learning  Blended learning  Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| Learning objectives for this course will focus on developing a fundamental understanding of the following topics as they relate to o the theory and practice of quantitative analysis –.Gravimetry**.** Through participation in course activities, each student should expect to improve her/his knowledge of analytical chemistry and to develop improved qualitative and quantitative problem-solving skills. Hands-on experience with laboratory experiments will allow students to learn proper procedures, to gather meaningful data, and to draw logical and appropriate conclusions based on the laboratory data.  All Labs must be done and reports submitted to obtain a passing grade for this course. | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Overview of gravimetric methods -types of gravimetric methods,precipitative gravimetric analysis, volatilization gravimetry  thermogravimetry and combustion analysis  Relative Supersaturation, controlling particle size  Hmogeneous precipitation  Coagulation, peptization  Filtering the precipitate  Impurities in precipitates – occlusion, inclusion, surface adsorption  Postprecipitation, reprecipitation, digestion  Drying the precipitate Gravimetric calculationsEvaluating precipitation gravimetry - scale of operation, accuracy, precision, sensitivity, selectivity, F-test, t-test, time, cost, and equipment Quantitative applications | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| Serbian (complete course)  English (complete course)  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)  Serbian with English mentoring Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| **ASSESSMENT METHODS AND CRITERIA** | | | | | | |
| **Pre exam duties** | **Points** | | **Final exam** | | | **points** |
| **Activity during lectures** | **5** | | **Written examination** | | | **15** |
| **Practical teaching** | **25** | | **Oral examination** | | | **15** |
| **Teaching colloquia** | **40** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |