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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | **Faculty of Medicine** | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | **Integrated Academic Studies Of Pharmacy** | | |
| Study Module (if applicable) | | | |  | | |
| Course title | | | | **Analytical Chemistry 1** | | |
| Level of study | | | | Bachelor x Master’s ☐ Doctoral | | |
| Type of course | | | | x Obligatory ☐ Elective | | |
| Semester | | | | ☐ Autumn xSpring | | |
| Year of study | | | | I (first) | | |
| Number of ECTS allocated | | | | 6 | | |
| Name of lecturer/lecturers | | | | Professor dr Biljana Kaličanin  dr Dragan Velimirović, Assistant Professor | | |
| Teaching mode | | | | xLectures ☐Group tutorials ☐ Individual tutorials  xLaboratory work ☐ Project work ☐ Seminar  ☐Distance learning x Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| Students should gain basic knowledge in qualitative chemical analysis in order to be able to solve analytical problems in pharmacy:   * study of balance processes in homogenous and heterogenous systems; * sampling of materials and preparation of samples for identification of various ions.   The knowledge gained in the course will facilitate mastering of basic, traditional methods of quantitative chemical analysis – gravimetry and volumetry (Analytical chemistry 2). | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| The knowledge in Analytical chemistry 1 will enable students to:   * successfully use the knowledge about heterogenous systems and evaluate the solution and precipitation conditions; * successfully use the knowledge of preparation of the samples for qualitative chemical analysis in order to identify precisely certain ions of relevance in pharmacy, using appropriate reagents; * to be able to perform in a lab in a safe way, and to develop appropriate abilities to resolve practical analytical problems; * successfully attend the course in Analytical chemistry 2 and all other professional courses that require the knowledge of basic, traditional principles/methods of chemical analysis. | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| Serbian (complete course) x 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** | **up to 5** | | **Written examination max** | | | **up to 70** |
| **Practical teaching** | **up to 10** | | **Oral examination** | | |  |
| **Teaching colloquia** | **up to 15** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |