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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 Kaličanindr Dragan Velimirović, Assistant Professor  |
| Teaching mode | xLectures ☐Group tutorials ☐ Individual tutorialsxLaboratory 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.
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| **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** |