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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Science and Mathematics | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Chemistry | | |
| Study Module (if applicable) | | | | / | | |
| Course title | | | | Instrumental analysis I | | |
| Level of study | | | | ☐Bachelor ☐ Master’s x Doctoral | | |
| Type of course | | | | ☐ Obligatory x Elective | | |
| Semester | | | | ☐ Autumn x Spring | | |
| Year of study | | | | 1st | | |
| Number of ECTS allocated | | | | 8 | | |
| Name of lecturer/lecturers | | | | Snezana Mitic | | |
| Teaching mode | | | | x Lectures ☐Group tutorials ☐ Individual tutorials  ☐Laboratory work ☐ Project work x Seminar  ☐Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *The main purpose is to understand the principles of operation and characteristics of complex analytic instruments and the training student`s to working on analysis the quality of different types of materials.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| **Legal regulation of quality control. Reference materials. The selection and assessment of the methods. The possibility of application of analytical methods. Directions of development of chemical and instrumental analysis methods**  **complex techniques. Development and validation of analytical methods of analysis**  **Processing of results. Statistical tests. Showing of result. Tabular and graphical** | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| x 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** | **10** | | **Written examination** | | | **20** |
| **Practical teaching** | **/** | | **Oral examination** | | | **30** |
| **Teaching colloquia** | **40 (2x20)** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |