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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** |