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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Sciences and Mathematics |
| **GENERAL INFORMATION** |
| Study program  | **Chemistry** |
| Study Module (if applicable) | - |
| Course title | Selected Chapters of Physical Chemistry |
| Level of study | ☐Bachelor ☐ Master’s ✓ Doctoral |
| Type of course | ☐Obligatory✓ Elective |
| Semester  | ✓ Autumn ☐Spring |
| Year of study  | II |
| Number of ECTS allocated | 16 |
| Name of lecturer/lecturers | Snežana Tošić |
| Teaching mode | ✓Lectures ☐Group tutorials ☐ Individual tutorials☐Laboratory work ☐ Project work ✓ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Upgrading the existing knowledge of physical chemistry acquired through the previous levels of studies with the aim to understand specific problems.**Student should be able to monitor and interpret different systems and problems in all the fields of chemistry, especially in terms of thermodynamic equilibrium i.e. the possibility of a process.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Selected chapters in the following areas of physical chemistry: physical state of matter; chemical thermodynamics; chemical equilibrium; phase equilibrium; solutions and mixtures; surface phenomena; colloids; chemical kinetics; electrochemistry.** |
| **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** | **-** | **Written examination** | **-** |
| **Practical teaching** | **-** | **Oral examination** | **40** |
| **Teaching colloquia** | **60** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |