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| **Faculty of Sciences and Mathematics, UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | |  | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | **Postgraduate** | | |
| Study Module (if applicable) | | | | Applied chemistry | | |
| Course title | | | | Inorganic reaction mechanism | | |
| Level of study | | | | ☐ Bachelor ☒ Master’s ☐ Doctoral | | |
| Type of course | | | | ☐ Obligatory ☒ Elective | | |
| Semester | | | | ☒ Autumn ☐ Spring | | |
| Year of study | | | |  | | |
| Number of ECTS allocated | | | | 4 | | |
| Name of lecturer/lecturers | | | | Maja N. Stanković, | | |
| Teaching mode | | | | ☒ Lectures ☐ Group tutorials ☒ Individual tutorials  ☒ Laboratory work ☐ Project work ☐ Seminar  ☐ Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *Acquisition of theoretical basics of reaction mechanisms and organometallic reactions.*  *Introduction with the physicochemical basis of industrial important processes which include inorganic reactions.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Basic kinetic laws and kinetically behaviour of complex compounds. Classification of mechanisms. Substitution reactions in octahedral complexes. Substitution reactions in square-planar complexes. Substitution reactions in tetrahedral complexes. Oxidation-reduction reactions of complex compounds. Inner- and outer-sphere reactions. | | | | | | |
| **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** | **5** | | **Written examination** | | | **20** |
| **Practical teaching** | **15** | | **Oral examination** | | | **20** |
| **Teaching colloquia** | **40** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |