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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 | Nomenclature of organic compounds |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory☒ Elective |
| Semester  | ☐ Autumn ☒Spring |
| Year of study  | 2. |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Polina D. Blagojević |
| Teaching mode | ☒Lectures ☐Group tutorials ☒ Individual tutorials☐Laboratory work ☐ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *The aim of the course is to introduce the general principles and rules for the naming of organic compounds (IUPAC nomenclature). Students will learn how to name of a complex polyfunctional organic compound, or to draw its structure from the name (including stereochmistry).*  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| This course will include the following general topics: 1) the basic principles of the IUPAC nomenclature; systematic, semi-systematic and trivial names; 2) nomenclature types and operations (substitutive, replacement, additive, subtractive, multiplicative, conjunctive, ring formation or cleavage, rearrangement); 3) parent hydrides (fusion, spiro and bridged compounds) and other parent structures (heterocyclic compounds, stereoparent structures and functional parent structures) and their derived substituents groups; 4) characteristic (functional) groups including those containing atoms with non-standard valence; 5) guide to name construction and application to specific classes of compounds; 6) stereochemical specification; 7) Isotopically modified compounds.  |
| **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** | **10** | **Written examination** | **50** |
| **Practical teaching** | **10** | **Oral examination** |  |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |