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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** | | | | | | |