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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 | Preparative organic chemistry |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory☐ Elective |
| Semester  | ☐ Autumn ☒Spring |
| Year of study  | 2. |
| Number of ECTS allocated | 3 |
| 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)** |
| *Upon completion of this course, students should have acquired a solid foundation of essential skills and knowledge associated with organic lab techniques as well as communication and teamwork skills. Specifically, at the end of the course, students should be able to a) safely plan and carry out common organic synthetic reactions, b) work safely and effectively in an organic chemistry lab and c) write clear, concise, and correct lab reports that include appropriate citations to the relevant literature.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| The students will learn about common laboratory glassware and other equipment. They would be introduced to different laboratory techniques and methods. Different temperature regimes, moisture-free, air-free and solvent-free conditions. Work with gases. (Reliable) reactions for the preparation of various types of organic compounds–aromatic substitutions (electrophilic and nucleophilic), elimination, substitution, addition, oxidation, reduction and organometallic reactions and rearrangements–would be covered both from the theoretical and experimental points of view. In addition to that, students will learn how to search chemical literature, choose and/or optimize reaction conditions, prepare solvents and reactants for the reaction and follow reaction progress.  |
| **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** | **45** |
| **Practical teaching** | **50** | **Oral examination** |  |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |