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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Sciences and MathematicsDepartment of Chemistry. |
| **GENERAL INFORMATION** |
| Study program  | **Applied Chemistry** |
| Study Module (if applicable) |  |
| Course title | **Applied Organic Chemistry** |
| Level of study | ☐ Bachelor X Master’s ☐ Doctoral |
| Type of course | X Obligatory ☐ Elective |
| Semester  |  ☐ Autumn X Spring |
| Year of study  | first |
| Number of ECTS allocated | 7 |
| Name of lecturer/lecturers | Goran M Petrović |
| Teaching mode | X Lectures x Group tutorials ☐ Individual tutorials x Laboratory work ☐ Project work x Seminar ☐ Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring knowledge about the important industrial organic compounds and reactions. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| *Theorectical lectures*Introduction. Oil as a raw material. Processes of petroleum refinery. Raw materials for the industry of organic compounds, hydrocarbons, oxygen compounds, polymer organic compounds. Pharmaceutical industrial chemistry; 9. Overview of functional groups important to the chemistry of drugs; 10. Industrially important chemical reactions: alkylation, amination, condensation, addition, dehydratation, dehydrogenization, esterification, halogenation, fermentation, hydratation, hydrogenization, hydrolysis, hydroformylation, nitrification, oxidation.*Practical training: Exercises, Other forms of teaching, Study and research work*Introduction class. Introducing students to the exercise program, the behavior in the laboratory, their tasks and obligations. Preparation of caprolactam. Preparation of polyamide. Professional practice in the relevant industrial plants. |
| **LANGUAGE OF INSTRUCTION** |
| x Serbian (complete course) ☐ English (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)xSerbian with English mentoring ☐Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | 5 | **Written examination** | 40 |
| **Practical teaching** | 15 | **Oral examination** |  |
| **Teaching colloquia** | 40 | **OVERALL SUM** | 100 |
| **\*Final examination mark is formed in accordance with the Institutional documents** |