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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  |  |
| **GENERAL INFORMATION** |
| Study program  | **CHEMICAL TECHNOLOGIES** |
| Study Module (if applicable) | ORGANIC CHEMICAL TECHNOLOGY AND POLYMER ENGINEERING MODULE |
| Course title | **Organic chemical technology** |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | IV |
| Number of ECTS allocated | 8 |
| Name of lecturer/lecturers | Suzana Cakić |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [x]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| The main goal of this teaching program is a review of the most important industrial processes of the synthesis of basic organic compounds, which besides the use values mainly represent the starting intermediates as primary or secondary raw materials and are used for industrial production of the majority of currently known chemical products. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| The methods are based on the reactions of nitration. Reduction methods for preparing amines. The process for preparing the amine based on ammonolysis. The methods are based on the reactions of halogenation. The methods are based on reactions of sulfonylation and reactions of sulphatolation.Practical teaching. Application of mass and energy balance on the technological process. Chemical processing of coal, oil and natural gas. Technology of intermediate compounds. The technology of polymers. Preparation of industrial water and solving practical problems. |
| **LANGUAGE OF INSTRUCTION** |
| [x] 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** | **/** |
| **Practical teaching** | **30** | **Oral examination** | **60** |
| **Teaching colloquia** | **/** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |