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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Technology |
| **GENERAL INFORMATION** |
| Study program  | CHEMICAL TECHNOLOGIES |
| Study Module (if applicable) | ORGANIC CHEMICAL TECHNOLOGY AND POLYMER ENGINEERING, ECOLOGICAL ENGINEERING |
| Course title | Polymer recycling |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  |  ☒ Autumn ☐Spring |
| Year of study  | IV  |
| Number of ECTS allocated | 6  |
| Name of lecturer/lecturers | Jakov Stamenković |
| Teaching mode |  ☒Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☒ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Introducing students to the importance of recycling in general, and especially with the polymers recycling, in terms of saving raw materials and energy as well as environmental protection. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Student should acquire basic knowledge in the polymer recycling. 1 – Introduction. 2 - Plastic waste. 3-4 - Polymer waste recycling. 5 -Use of waste polymer materials for energy products. 6-7. - Introduction to the principles of polymers degradation. 8 - Technologies of degradation waste rubber. 9-10 - Paper and textile recycling. 11 - Recycling technologies of thermoplastic 12 - Waste management. 13 - Composites based on polymers waste. 14-15. - Recycling of electrical and electronic waste. |
| **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** | **/** |
| **Practical teaching** | **15** | **Oral examination** | **60** |
| **Teaching colloquia** | 15 | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |