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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** | | | | | | |