|  |
| --- |
|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  |  |
| **GENERAL INFORMATION** |
| Study program  | TECHNOLOGICAL ENGINEERING |
| Study Module (if applicable) | / |
| Course title | Polymer modification |
| Level of study | [ ] Bachelor [ ]  Master’s [x]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [x] Spring |
| Year of study  | I |
| Number of ECTS allocated | 8 |
| Name of lecturer/lecturers | Suzana Cakić |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [ ]  Project work [x]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| The aim of this course is a modification of the existing properties of macromolecules towards change their properties or to obtain new material. Ability of students for the selection of optimal additives in order to obtain the desired modification of polymers with certain properties, with the fulfillment of standards related to influence on the living and working environment. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| The goal, the essence and perspectives of modification of the polymer, on reaction specificity macromolecules. Systematization of additives for plastics and their effect on the properties material. Additives for easy processing and for modifying the polymer properties. Properties and application of additives for thermoplastics. Additives for the caoutchouc mixture. Some aspects of the use of additives for specific applications. Toxicological and ecological aspects of the use of additives. Development Trends of additives for plastics on the world market. |
| **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** | **/** | **Oral examination** | **30** |
| **Teaching colloquia** | **60** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |