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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  |  |
| **GENERAL INFORMATION** |
| Study program  | TECHNOLOGICAL ENGINEERING |
| Study Module (if applicable) | / |
| Course title | Surface engineering of textiles |
| Level of study | [ ] Bachelor [ ]  Master’s [x]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [x] Spring |
| Year of study  | II |
| 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)** |
| Acquiring the necessary knowledge needed to properly design and projecting clothing for special purposes. Students gain knowledge about new (High-Tech) materials and possibilities of its application in engineering surface of textile materials and clothing for a special purpose. Introducing students to the principles of engineering surface of textile materials and clothing for special purposes. Students are trained to apply their knowledge in order to be able to use the necessary finishing operations of textile materials for special purposes, based on the structure and properties of different textile materials and surfaces.  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Basic principles of treatment procedures of polymerase for textiles in the surface layer of the atomic and molecular level.Basic principles and procedures of physical chemical treatment of textile materials of plant, animal and artificial origin in the surface layer. Methods for modifying the surface of the textile materials of plant, animal textile materials and surfaces of artificial origin (plasma treatment, laser treatment). Characterization of surface changes on the material of plant, animal and material of artificial origin. Special polymers, application of nanotechnology, polymeric materials of natural origin for the surface treatment of textile materials of plant,of animal and of artificial origin materials. |
| **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** |