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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** |  |
| **GENERAL INFORMATION** |
| Study program  | **ТЕXTILE TECHNOLOGIES**  |
| Study Module (if applicable) | **TEXTILE ENGINEERING MODULE**  |
| Course title | Special Purpose Fibers |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  | ☐ Autumn ☒Spring |
| Year of study  | 2 |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Sandra Konstantinović |
| Teaching mode | ☒Lectures ☐Group tutorials ☐ Individual tutorials☒Laboratory work ☐ Project work ☒ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Development of creative skills necessary for practical and research work in further promotion and learning about the scientific and technical achievements related to the character and use of special purpose fibers. Training for independent participation in the areas of analysis, synthesis and prediction solutions, mastering the methods, procedures and processes of research, development of critical and self-critical thinking and approaches that solve specific problems in the production and application of special purpose fibers. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| The structure and properties of fibers produced by artificially high technology. High Performance Fibres. High esthetics fibers. Extreme fine structures, morphology and performance. High functional fibers. New sources of raw material for fibers: biopolymers, polysaccharides, biomass from crab shells, spider silk fibers and fibers produced by bacteria. Fibres from secondary (renewable) raw materials.  |
| **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** | **50** |
| **Teaching colloquia** | **25** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |