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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of technology |
| **GENERAL INFORMATION** |
| Study program  | **Textile technologies** |
| Study Module (if applicable) | Textile engineering module |
| Course title | Technical textile |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  | ☒ Autumn ☐Spring |
| Year of study  | III |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Jovan Stepanovic, Nenad Cirkovic, Goran Demboski |
| Teaching mode | ☒Lectures ☐Group tutorials ☐ Individual tutorials☐Laboratory work ☐ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☒ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring theoretical and practical knowledge of the raw materials used in technological processes and development of structural and constructive parameters of woven, knitted and nonwoven products for technical purposes, especially in the field of civil engineering, environmental, and medicine. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| 1. Definition and development of the production of technical textiles, the representation of the market; 2. Technological processes used in the manufacture of technical textile materials; 3. Technical fiber type and application; 4. Technical yarn, methods of manufacture, properties; 5. Woven, knitted and non-woven technical products; 6. Finishing of technical textile materials; 7. Treatment against the flammability of technical textiles; 8. Technical textiles for filtering; 9. Geotextile; 10. Geomembranes; 11. Technical Textiles in medicine; 12. Technical Textiles in the automotive industry; 13. Technical Textiles in the defense and protection; 14 Environmental protection, degradability and recycling of technical textile materials; 15. The textile fiber reinforced composite 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** | **20** | **Written examination** | **15** |
| **Practical teaching** | **15** | **Oral examination** | **25** |
| **Teaching colloquia** | **25** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |