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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of technology |
| **GENERAL INFORMATION** |
| Study program  | **Textile technologies** |
| Study Module (if applicable) | Industrial design of textile products module |
| Course title | Textile testing |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  | ☐ Autumn ☒Spring |
| Year of study  | IV |
| Number of ECTS allocated | 7 |
| Name of lecturer/lecturers | 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)** |
| Getting knowledge of exact and objective performance evaluation of all kinds of textiles. Developing the ability to apply basic engineering knowledge in the evaluation of materials. Mastering the methodology and technique of conducting tests of various properties of textile materials and the interpretation of test results. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| 1. The methods of forming patterns. 2. Bringing samples to the standard state. Measurement of moisture in textile materials. 3. Testing of fibrous material: fibers length and methods of measurement. 4. Testing of fibrous material: diameter, fineness, and curliness. 5. Testing of fibrous material: tensile characteristics. Testing strips (sliver) and roving. 6. Structural characteristics of yarn. Methods for determining fineness and twisting yarn. 7. Mechanical and deformation characteristics of the yarn. 8. The uneven yarn. Test methods. 9. Performance testing of the surface of the product. Structural features. Resistance to jam, thermal properties, flammability and combustion. 10. The porosity, capillarity, water-repellent, waterproof and shrinkagetextile materials. 11. Performance testing of the surface of the product. 12. Mechanical and deformation characteristics of the product surface. 13. The physiological properties of textile materials. 14. Damage to the textile materials by the action of mechanical forces and chemical agents. 15. Preparation of textile materials and exemination fat and ash content. |
| **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** | **5** | **Written examination** |  |
| **Practical teaching** | **5** | **Oral examination** | **40** |
| **Teaching colloquia** | **50** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |