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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 | Mechanical textile technology |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  | ☒ Autumn ☐Spring |
| Year of study  | II |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Jovan Stepanović |
| Teaching mode | ☒Lectures ☐Group tutorials ☐ Individual tutorials☐Laboratory work ☐ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| The aim of the course Introduction to basic manufacturing processes of single-wired and twistedyarns, fabrics, knitwear and nonwovens. Outcome: Students acquire knowledge about the basic processes of production of yarns, fabrics, knitwear and non-wovensand are ready to engage in mechanical processes of production of textile products. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Course content:Theoretical classes:The processes of cotton spinning. The processes of wool spinning. Rewinding the yarn. Yarn twisting. Warping. Sizingandwaxing warp. Preparation of the weft. Types and operating principles of weaving looms. Multiphase weaving and multiaxial weaving. Features of the knitting machine. Straight knitting machines. Circular knitting machines.Knitting machines. Warp knitting machines. Production processes of nonwovens. Practical classes:Practical teachingof spinning technology. Practical teachingof weaving technology. Practical teachingof knitting technology. Practical teachingof nonwovens technology. |
| **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** |  | **Oral examination** | **40** |
| **Teaching colloquia** | **50** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |