|  |
| --- |
|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of technology |
| **GENERAL INFORMATION** |
| Study program  | **Technological engineering** |
| Study Module (if applicable) |  |
| Course title | Selected chapters of nonwoven 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 | 8 |
| Name of lecturer/lecturers | Nenad Cirkovic |
| Teaching mode | ☒Lectures ☐Group tutorials ☐ Individual tutorials☐Laboratory work ☐ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☒ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Gaining knowledge about the specifics of technological methods of making and finishing non-woven textile products and new trends of development and specific areas of application. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **1. Specific features and applications nonwovens;****2. Special chemical fibers in the production of nonwovens;****3. Mechanical formation of felt with fibers oriented position; the impact of position of the fibers on the characteristics of the non-wovens;****4. Aerodynamic formation of felt; adjusting aerodynamic converter with unoriented and longitudinal position of the fiber;****5. Specific medical products;****6. Chemical connecting fiber in felt; The special binders;****7. Non-woven textiles in the furniture industry; structure and characteristics designed according to end use;****8. Design and construction of non-woven textile materials intended for cleaning and hygiene in the household;****9. Non-woven textile materials in the apparel industry;****10. Nonwovens for filtering gases and liquids;****11 Non-woven textiles in the construction industry;****12. Geomembrane with bentonite or bitumen;****13 Non-woven textiles in agroculture;****14 Non-woven textile materials in the automotive industry;****15. The impact on the environmental protection and recycling of non-woven textile 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** | **25** | **Written examination** |  |
| **Practical teaching** |  | **Oral examination** | **25** |
| **Teaching colloquia** | **50** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |