|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** | | | | | | |