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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 | CAD CAM for 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 | 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)** |
| Introduction to the application of CAD-CAM system for the design and construction of textile materials and garments. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| 1. CAD-CAM systems in the production of yarn, fabrics and garments. 2. CAD-CAM systems in the technical preparation of the textile and clothing industry. 3. CAD systems in construction preparation of making clothes. 4. Designing clothes using a computer. 5. Non-contact taking body measurements with 3D scanner and adjusting the scanned data to the database. 6. Modeling and grading of cutting pieces on the CAD-CAM systems. 7. Transformation of cutting parts and functions of basic operations. 8. Computer production of cutting patterns and drawing on the plotter. 9. Preparation of technical documents and databases in the textile and apparel industry. 10. Network connection with CAD CAM systems. 11. Transfer of data from CAD systems and remote CAM systems. 12. CAM systems in the technological process of cutting and sewing clothes. 13 NC keeping machines in the textile industry. 14. Automatic cutting and sewing parts of clothing. 15. 2D and 3D sewing and sewing robots. |
| **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** | **20** | **Oral examination** | **40** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |