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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** |  |
| **GENERAL INFORMATION** |
| Study program  | ТЕXTILE TECHNOLOGIES |
| Study Module (if applicable) | Textile engineering module  |
| Course title | Basics of color metrics  |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  | ☒ Autumn ☐Spring |
| Year of study  | 4 |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Sandra Konstantinović |
| Teaching mode | ☒Lectures ☐Group tutorials ☐ Individual tutorials☒Laboratory work ☐ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring knowledge related to the technological process of production and distribution of finished products, creating fashion collections based on color differences. Instrumental color measurement is included in all industrial production processes; processes of textile technology, design, graphics, multimedia, etc. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| The most important characteristics and type of light. Theories of color vision. Defective vision of color. Psychophysical color characteristics. Tristimulus (x, y, z) values. CIE and CIELAB system. Determination of the total color differences and standards for measuring colors. Metamerism and instrumental measuring of colors. Selecting a color measurement and CIE standard for measurement geometry. Measurement of gloss, color, surface texture and transparence. CMS color management system. |
| **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** | **15** | **Oral examination** | **50** |
| **Teaching colloquia** | **25** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |