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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Technology, Leskovac |
| **GENERAL INFORMATION** |
| Study program  | Textile Technologies |
| Study Module (if applicable) | Industrial design of textile products |
| Course title | Dyeing and printing technology  |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | III |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Dragan Djordjevic |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [x] Laboratory work [ ]  Project work [x]  Seminar [ ] Distance learning [ ]  Blended learning [x]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| The course introduces students to the basic characteristics of dyes, its structure and implementation, specifics of the chemical properties of natural and synthetic fibers and dye adhesion mechanism.Students are learning to apply the concept of technology dyeing and printing of textile materials and products independently. The course gives students basic and advanced knowledge necessary for the development of all areas of technology dyeing and printing. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| 1. The structure of the dyes classification, the basic theory of dyeing.
2. Chemical nature of cellulose, man-made, protein and synthetic fibers dyeing.
3. Mechanisms of dyeing - dyeing technological procedures.
4. Dyeing fibers mixtures. Basic printing textiles.
5. Printing methods.
6. Finishing.
7. Production of metal rollers, sieves, choice of colors, thickeners and additives.
8. Printing of cellulose, protein, and synthetic fibers.
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| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [x]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[x] 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** |