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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) | Textile Engineering |
| Course title | Theory of textile dyeing  |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | I |
| Number of ECTS allocated | 5 |
| 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 provides the student that upon completion of graduate students conducting independently any technological dyeing process, to work in scientific research institutions and participates in the development of projects in the techno-economic and environmental grounds.Students acquire skills and ability to work with processes arising out of the subject theory textile dyeing. Laboratory classes develop in students independence in work and responsibility for the terms of reference. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| 1. Systems of dye - fiber.
2. Thermodynamics and kinetics of dyeing.
3. Interdependence factors of dyeing; Characteristics of the dye solution.
4. Distribution of dyes according to the chemical structure and solubility.
5. Structure of dyes and substantivity.
6. Physical and chemical basic theory of dyeing.
7. Connection dye - fiber.
8. The impact on the structure of the fiber coloured properties.
9. Mechanisms of dyeing.
10. Choice of technological processes.
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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** | **5** | **Written examination** | **-** |
| **Practical teaching** | **10** | **Oral examination** | **50** |
| **Teaching colloquia** | **35** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |