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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | FACULTY OF TECHNOLOGY LESKOVAC |
| **GENERAL INFORMATION** |
| Study program  | TECHNOLOGICAL ENGINEERING |
| Study Module (if applicable) |  |
| Course title | **Theoretical Analysis of Knitting Process** |
| Level of study | [ ] Bachelor [ ]  Master’s [x]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [x] Spring |
| Year of study  | II |
| Number of ECTS allocated | 8 |
| Name of lecturer/lecturers | **Dušan Trajković** |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [ ]  Project work [x]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Providing students with a knowledge of the processes of manufacturing knitted fabrics and position half-loops and loops in the knitting process. Defining the optimal process parameters in the production of knitwear and determination of the equilibrium state of the loop in the knitwear. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Analysis of the technical and technological parameters in the knitting process. The position of the yarn in the knitting zone. The depth of cooling- wefting. Processes application half loops on the hooks of needles. Positions newly formed loops and half loops. Mathematical models of equilibrium state of the knitwear. Experimental research of knitwear structure. Periods of knitwear drawing. The boundaries of the changes in stages in the structure of knitwear. Relaxation phenomena and equilibrium state of knitwear. Drawing yarn in some parts of the loop. Analysis of the stagnation of knitting and errors in knitwear. Management and control of the process of knitting. Criteria for the further development of techniques and technology of knitting. |
| **LANGUAGE OF INSTRUCTION** |
| [x] 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** |  | **Oral examination** | **40** |
| **Teaching colloquia** | **50** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |