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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  |  |
| **GENERAL INFORMATION** |
| Study program  | **TEXTILE TECHNOLOGIES** |
| Study Module (if applicable) | *TEXTILE ENGINEERING MODULE* |
| Course title | Textile machines mechanisms |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | II |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers |  |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [x]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Yes student and acquire basic theoretical knowledge of mechanisms of textile machines.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Function, types and structure of the mechanism. Kinematics base mechanism. Two or three infinitesimally close positions. Tangent to roulette and the center of the curve. The trigger mechanisms. Methods for determining the velocity and acceleration. Determination of velocity and acceleration of an articulated quadrilateral. Determination of velocity and acceleration of a piston mechanism. Determination of velocity and acceleration during kulisnog mechanism. Mechanisms with rolling. Planetary mehanizmi.Diferencijalni mechanisms. Cam mechanisms in the textile industry. Synthesis of cam mechanisms. Examples of application mechanisms in the textile industry.** |
| **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** |  | **Written examination** |  |
| **Practical teaching** |  | **Oral examination** |  |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |