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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of technology | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | **Food technology and biotechnology, Chemical technologies, Textile technologies** | | |
| Study Module (if applicable) | | | |  | | |
| Course title | | | | Automatic process control | | |
| Level of study | | | | Bachelor  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | III | | |
| Number of ECTS allocated | | | | 7 | | |
| Name of lecturer/lecturers | | | | Sreten Stojanovic | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  Laboratory work  Project work  Seminar  Distance learning  Blended learning  Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *Getting to know students with basics of automatic control systems in stationary and transient operating mode. Application of Matlab software to solve practical engineering problems related to process control.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| **Analysis of the continuous system in the time domain. Analysis of the continuous system in the complex domain. Application of the Laplace transform.** **Transfer function. Analysis of the continuous system in the frequency domain. Frequency response. Frequency characteristics. Analysis of the system in a steady state. Steady state errors. The state space of systems. System stability. Process control.** | | | | | | |
| **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** | **5** | | **Written examination** | | |  |
| **Practical teaching** | **15** | | **Oral examination** | | | **30** |
| **Teaching colloquia** | **50** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |