|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **UNIVERSITY OF NIŠ** | | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Science and Mathematics | | |
| **GENERAL INFORMATION** | | | | | | | |
| Study program | | | | Physics | | | |
| Study Module (if applicable) | | | | Applied physics | | | |
| Course title | | | | Automatic control | | | |
| Level of study | | | | Bachelor  Master’s  Doctoral | | | |
| Type of course | | | | Obligatory  Elective | | | |
| Semester | | | | Autumn Spring | | | |
| Year of study | | | | 2 | | | |
| Number of ECTS allocated | | | | 6 | | | |
| Name of lecturer/lecturers | | | | Biljana Samardžić | | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  Laboratory work  Project work  Seminar  Distance learning  Blended learning  Other | | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | | |
| To students meet and master the material from Automatic control system. | | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | | |
| 1. Overview development of automatic control.  2. Modeling processes and systems  3. Analysis continuous systems.  4. Analysis the impulse System.  5. Linear systems.  6. Nonlinear systems.  7. Computer (MATLAB/SIMULINK) analysis of continuous and impulse systems.  8. Automatic control processes and systems | | | | | | |
| **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** | | | **20** |
| **Practical teaching** | **15** | | **Oral examination** | | | **20** |
| **Teaching colloquia** | **40** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |