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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | |  | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | BASIC ACADEMIC STUDIES  Mechanical engineering | | |
| Study Module (if applicable) | | | |  | | |
| Course title | | | | B.7.6-E.14-8 Programming and Computations application | | |
| Level of study | | | | ☑Bachelor ☐ Master’s ☐ Doctoral | | |
| Type of course | | | | ☐ Obligatory☑ Elective | | |
| Semester | | | | ☑ Autumn ☐Spring | | |
| Year of study | | | | IV | | |
| Number of ECTS allocated | | | | 6 | | |
| Name of lecturer/lecturers | | | | Aca D. Micic | | |
| Teaching mode | | | | ☑Lectures ☐Group tutorials ☐ Individual tutorials  ☐Laboratory work ☐ Project work ☐ Seminar  ☐Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| Mastering software agents for monitoring and process control, design of management and control processes based on a personal computer. | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| * Industrial process control application of higher programming languages * Assembler. * C C ++. * Java. * Development and design of program management and monitoring of mechatronic processes. * Control and monitoring of process using Matlab. * Control and monitoring process using the package Labwiev. * Instrumentation systems based on PC | | | | | | |
| **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** | **10** | | **Written examination** | | |  |
| **Practical teaching** |  | | **Oral examination** | | | **50** |
| **Teaching colloquia** | **10+10+10+10** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |