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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Engineering Management** |
| Study Module (if applicable) | Industrial management |
| Course Title | Process management |
| Level of Study | ☐Bachelor | ☒ Master’s | ☐ Doctoral |
| Type of Course | ☒ Obligatory | ☐ Elective |
| Semester | ☐ Autumn | ☒ Spring |
| Year of Study | I |
| Number of ECTS Allocated | 6 |
| Name of Lecturer/Lecturers | Vlastimir D. Nikolć, Vladislav A. Blagojević, Dragan T. Mišić |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☐ Laboratory work | ☒ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *Introduce students to the basics of analysis and synthesis of contemporary management and control of technical and business processes.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) General introduction to management and control of technical and business processes, 2) Sensors, 3) Application of computer techniques in the management process and different concepts of system management processes, 4) Control systems in flexible technology processes, 5) The application of computers and microcontrollers, 6) The application of programmable logic controllers (PLC ), 7) Robot controllers, 8) SCADA systems, 9) Production and business processes, 10) Workflows with business processes, 11) Management and control processes, 12) Process technology support company organization, 13) Management systems workflow, standards related to managing workflow, workflow reference model, 14) Software systems process management, 15) Communication between different systems for 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** | **10** | **Written Examination** | **40** |
| **Practical Teaching** | **0** | **Oral Examination** | **0** |
| **Teaching Colloquia** | **50** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |