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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Mechanical Engineering** |
| Study Module (if applicable) | - |
| Course Title | Modern Concepts, Methods and Tools of Management  |
| Level of Study | ☐Bachelor | ☐ Master’s | ☒ Doctoral |
| Type of Course | ☐ Obligatory | ☒ Elective |
| Semester | ☐ Autumn | ☒ Spring |
| Year of Study | II |
| Number of ECTS Allocated | 10 |
| Name of Lecturer/Lecturers | Pedja M. Milosavljević, Andjela D. Lazarević |
| 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 modern concepts, methods and tools of management that managers use in condition of global competition. Introduction to examples from manufacturing and service organizations, which allows better understanding of the importance of management and introduction to advanced techniques and technologies for decision making and problem solving. Mastering of the current knowledge in the field of management and students ability to contribute to the improvement of existing processes and developing new processes, as well as willingness to apply acquired knowledge in engineering activities and theoretical work. Students are trained in process management and decision-making, using modern management methods and tools.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) The state in the field of management and directions for future development, 2) Models of Excellence, 3) Management of Processes, 4) Measurement of process performance, 5) Integrated Management Systems, 6) Quality Tools, 7) Tools of Management, 8) Lean Concept, 9) Leadership, 10) Kaizen Philosophy, 11) Six Sigma Methods, 12) Advanced tools and methods for process analysis, 13) Management of maintenance 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** | **10** | **Written Examination** |  |
| **Practical Teaching** |  | **Oral Examination** | **Max. 60 (depending on Teaching Colloquia)** |
| **Teaching Colloquia** | **30** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |