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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Manufacturing & Information Technologies** |
| Study Module (if applicable) | - |
| Course Title | Lean Six Sigma Organization |
| 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 | Pedja M. Milosavljević |
| Teaching Mode | ☒ Lectures | ☐Group tutorials | ☐ Individual tutorials |
| ☒ Laboratory work | ☒Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *Help students to understand the new organization, which is flat, without waste and in which there are no variations, i.e. the organization that operates without waste. The second objective is to train the students to implement projects of organization transformation into a modern classic flat organization without hierarchy and without waste in processes. Students that understand the new organization and who have the knowledge and skills to participate in transformation of classic organization into profitable organization.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1)What is Lean Six Sigma, 2)What is Lean Six Sigma company, 3) Lean Six Sigma strategic advantage for the company, 4) The application of Lean Six Sigma in the company, 5) Cycle time and speed of the process, 6) Why Lean needs Six Sigma, 7) SIPOC model for recording the process and record the current value in the process, 8) DMAIC methodology to improve processes and organization, 9) Identification of variation and waste in enterprise and application of methods and tools for their elimination, 10) Examples of companies that have successfully introduced Lean Six Sigma. |
| **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** | **40** |
| **Practical Teaching** | **5** | **Oral Examination** | **Max. 30 (depending on Teaching Colloquia)** |
| **Teaching Colloquia** | **20** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |