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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 | Maintenance of technical systems |
| 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 | Peđa 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)** |
| *The purpose of this course is to provide the necessary knowledge and skills to carry out the maintenance and processes improvement in manufacturing and service delivery area. Ability of mechanical engineer to participate in the maintenance and readiness to apply gained knowledge in engineering activities and theoretical work is the main goal of this course.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) A systematic approach to technical maintenance, 2) Reliability of technical systems, 3) Models of maintenance system, 4) Methods of preventive maintenance technology, 5) Modern methods of technical systems maintenance, 6) Lubrication of technical systems, 7) Technical diagnostics, 8) Preventive parts replacement, 9) Repair and renewal of parts of the system, 10) Periodic preventive technical repairs of the system, 11) Performance of maintenance logistical support, 12) Maintenance planning, 13) Information system for the maintenance implementation, 14) Managing maintenance by using computers, 15) Maintenance organization.  |
| **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** | **0** |
| **Practical Teaching** | **10 + 10 = 20** | **Oral Examination** | **30**  |
| **Teaching Colloquia** | **40** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |