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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 | Logistics maintenance |
| 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 | Goran S. Petrović |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☒ Laboratory work | ☒ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *The aim of the course is to broaden knowledge in technical systems maintenance from the prospective of logistics, which is essential to students for further scientific research. Course outcome is to improve the general level of education in the field of maintenance logistics. The fundamental outcome is student's capability to conduct research, as well as to analyze and solve practical problems in this field.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) Introductory considerations. Concept and characteristics of contemporary logistics maintenance. 2) Two branches of logistics: military (or systems) logistics and business logistics. Features of systems logistics, fundamental principles, own identity, terminology, models, objectives. 3) Integrated Logistics Support –ILS as a model of systems logistics. The ten ILS elements – effective and economical support for the life cycle of technical systems. (Maintenance Planning; Manpower and Personnel; Supply Support; Support and Test Equipment; Technical Data; Training and Training Support; Computer Resources Support; Facilities; Packaging, Handling, Storage, and Transportation; Design Interface. 4) Increase of availability of system and reduce of life cycle costs as the main concept of all ILS elements. 5) Multiobjective Maintenance Optimization. 6) Spare-parts logistics. Support System for Spare Parts and other materials. Information support to spare parts warehouse. 7) Education in logistics maintenance. |
| **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** |  **50 (project presentation)** |
| **Teaching Colloquia** | **0** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |