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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Traffic engineering, transport and logistics** |
| Study Module (if applicable) | - |
| Course Title | Storage and distribution systems |
| 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 | Miomir Lj. Jovanović |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☒ Laboratory work | ☒ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *Introduction to theoretical and practical knowledge in the field of storage, commissioning and distribution system. After completion of the subject the students are able to apply the acquired knowledge in field of design, management and maintenance of warehouses and distributive centres.*  |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) The logistics system and warehousing. Storage system. The elements and processes in warehouses. 2) Storage system. The organization of the warehouse. Strategy of storage place allocation. Areas of warehouses optimization. 3) Warehouse location. Distribution systems in terms of warehouse location. Input values, methodology and models for warehouse location determination. 4) Storage technologies. Storage task, typical technologies, technological conception and technological solution of storage system. The description of some storage technologies. 5) Commissioning technology. Definition. Material flow, information flow and organization of commissioning in warehouses. 6) Technological design of the warehouse. The basics of modelling and warehouse simulation. Methodology for planning, alternative solutions, analysis and selection of warehouses. 7) Managing and optimization of inventories. Inventories in production and distribution. Mathematical models for calculation and optimization of inventories. 8) Process management in warehouses and distribution centres. 9) The basis of the distribution systems and distribution networks. |
| **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** | **0** |
| **Practical Teaching** | **5** | **Oral Examination** |  **30**  |
| **Teaching Colloquia** | **60** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |