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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 | City logistics |
| Level of Study | ☐ Bachelor | ☐ Master’s | ☒ Doctoral |
| Type of Course | ☐ Obligatory | ☒ Elective |
| Semester | ☐ Autumn  | ☒ Spring |
| Year of Study | I |
| Number of ECTS Allocated | 2 |
| Name of Lecturer/Lecturers | Dragoslav B. Janošević |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☒ Laboratory work | ☒ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| Analysis of the concepts and development of mathematical models and criteria for optimal planning of flows and city logistics systems. Ability to research, development and planning of logistics flows and city logistics systems. |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1)Analysis of the function generators and of city logistic, 2) Systems and concepts of city logistic, 3) The methodology of defining the basic data of city logistic, 4)A traffic and urban transport flows, 5) Intelligent urban transport systems, 6) Logistics of the urban macro and micro distribution, 7) Urban distribution systems, 8)Urban waste management, 9) Dynamic modelling of urban logistics flows and systems, 10) Heuristic methods and algorithms for designing optimal urban transport routes, 11) Multi-criteria optimization of urban transport routes, 12)Heuristic methods and algorithms for solving location problems of city logistic. |
| **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** | **50** |
| **Practical Teaching** | **10** | **Oral Examination** | **Max. 35 (depending on Teaching Colloquia)** |
| **Teaching Colloquia** | **35** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |