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| **UNIVERSITY OF NIŠ** | | | | | | | | |
| **Course Unit Descriptor** | | | **Faculty** | | Pedagogical Faculty in Vranje | | | |
| **GENERAL INFORMATION** | | | | | | | | |
| Study program | Technical Education and Informatics | | | | | | | |
| Study Module (if applicable) | / | | | | | | | |
| Course Title | Basics of Traffic and Transportation | | | | | | | |
| Level of Study | ☐Bachelor | | | ☒Master’s | | | | ☐ Doctoral |
| Type of Course | ☐ Obligatory | | | ☒ Elective | | | | |
| Semester | ☒ Autumn | | | ☐ Spring | | | | |
| Year of Study | Third | | | | | | | |
| Number of ECTS Allocated | 5 | | | | | | | |
| 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 introduce students to the basic concepts of traffic and transportation systems, structure and basic functions, as well as with tendencies of traffic and transportation development due to economic, technical – technological and logistic factors. Upon completion of the course each student should be able to define exploitation and technical characteristics of the different types of traffic and transportation systems.* | | | | | | | | |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** | | | | | | | | |
| *1) The concept and specifics of traffic, transportation and logistics; 2) Historical development of traffic and transportation; 3) Traffic system and its subsystems - concept, dimensions, elements, structures, functions, processes; 4) The characteristics and performance of individual modes of transport (road, rail, water, air, cable, pipeline...); 5) Modern concepts of traffic (intermodality, ICT and traffic...); 6) Machines of continuous transport, handling equipment, lifting equipment; 7) Urban mobility – CITY logistics, material flow; 8) Aspects of sustainable transport - environmental impact.* | | | | | | | | |
| **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 (depending on Teaching Colloquia)** | | |
| **Practical Teaching** | | **5** | **Oral Examination** | | | **30 (oral exam) + 20 (seminar work)** | | |
| **Teaching Colloquia** | | **40** | **Overall Sum** | | | **100** | | |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | | | |