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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 | Supply chain management |
| 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 | Miloš S. Stojković |
| 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 understanding the importance of methods of planning and supply chain management. Students are qualified to independently due to a medley of the supply chain model, based on the given market conditions and capacity.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) The strategic framework for the analysis of supply chains: What are the supply chains? The performance of supply chains. The processes in the supply chain; 2) Design of the supply chain: Distribution Network. Factors, frameworks and models in the design of the supply chain. The application of ICT in the design of the supply chain; 3) Planning of supply and demand in the supply chain: Forecast demand. Physical planning; 4) Planning and inventory management in the supply chain: Inventory turnover in supply chains. Safety stock. Optimal levels of product availability; 5) Design and planning of transport networks. *Practical teaching:* Modeling of supply chains; Only individual work on case studies of supply chains; Models of site selection and allocation of capacity; Methods for forecasting demand; Use of linear programming for Physical Planning; Methods for planning and inventory management; Methods and factors of design of transport 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** | **60 (depending on Teaching Colloquia)** |
| **Practical Teaching** | **5** | **Oral Examination** |  **30** |
| **Teaching Colloquia** | **60** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |