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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 | Technical logistic |
| Level of Study | ☒Bachelor | ☐ Master’s | ☐ Doctoral |
| Type of Course | ☐ Obligatory | ☒ Elective |
| Semester | ☒ Autumn | ☐ Spring |
| Year of Study | III |
| Number of ECTS Allocated | 6 |
| Name of Lecturer/Lecturers | Goran Petrović |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☐ Laboratory work | ☒ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *Introduce students to the basics knowledge and experience to solve problems in the technical logistics and enterprises in the context of supply, transport, identification, communication, material handling, storage, production and distribution of goods.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| The structure, objectives and functions of the company logistic and organization. Logistics of supply, production, distribution and management of waste (recycling). Material flow logistic, components and costs of material flow, testing and planning of material flows. Communication and modeling of material flow, the basic models of material flow. Explanation of terms: materials, goods and cargo, types of materials and goods, packaging. Formation of logistic units, pallets, pallet package and container. Identification of goods, bar code, EAN system of transportation logistics, transponders. Purpose, classification and characteristics of internal transport, machines internal transport, types of drive wheels and overall calculation. Machines of cyclic transport and machines of continuous transport. Definitions, characteristics, types and a description of transport and reloading process. Vehicles, terminals, the collection and distribution of goods. Warehouses, the processes in the warehouse, storage technology and calculation. Definition and organization of picking, planning of material flow, Logistics Controlling, Kanban, Just-In-Tim and Just-In-Sequence strategies. |
| **Language of Instruction** |
| ☒Serbian (complete course) | ☐ English (complete course) | ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course) |
| ☒Serbian with English mentoring | ☐Serbian with German mentoring |
| **Assessment Methods and Criteria** |
| **Pre exam Duties** | **Points** | **Final Exam** | **Points** |
| **Activity During Lectures** | **5** | **Written Examination** | **Max.60**  |
| **Practical Teaching** | **5** | **Oral Examination** | **Max. 30 (depending on Teaching Colloquia)** |
| **Teaching Colloquia** | **60** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |