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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program |  **Engineering Management** |
| Study Module (if applicable) |  Transport and logistics management |
| Course Title | Transporting machines and systems |
| Level of Study | ☐Bachelor | ☒ Master’s | ☐ Doctoral |
| Type of Course | ☐ Obligatory | ☒ Elective |
| Semester | ☒ Autumn | ☐ Spring  |
| Year of Study | I  |
| Number of ECTS Allocated | 7 |
| 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)** |
| Program course is designed to introduce students with the machines for transport of materials and goods in the manufacturing and service systems. Students acquire knowledge which they can select for transport systems, identify machines that are part of the system. Students are able to determine the composition of the transport system (machines) for activities in transport. Discipline provides knowledge necessary for the calculation nominal properties and essential components of machines. This knowledge is needed for the management operation in the five complex transportation systems.  |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| Logistics transporting (Conveyor) systems and material flows. Classification of the transporting systems. Machines of internal transport in production, Container and Combined transport. Systems and Technology reloading. Container Terminals. Storage systems. The parameters of transporting machines (performance, capacity, driving range, cycles). Machines with interrupted (cyclic) transport. Cranes. Supporting structures. Driving mechanisms of cranes. Passenger and freight elevators. Skip. Forklifts. Machines of continual transport. Systems and storage techniques. Machines for storage. Mobile transport equipment (construction, mining). Machines of the hydraulic and pneumatic transport. CITY transport vehicles, machines and systems. Preparation of the final exam.  |
| 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** | **(Three Colloquiums) 60** |
| **Practical Teaching** | **5** | **Final (oral) Examination** | **Max. 30**  |
| **Three (3) teaching Colloquia (projects)**  | **60** | **Overall Sum** | **100** |